



XV **Brazil** *Natal*
MRS Meeting 2018

September, 16th to 20th

SBPMat
Brazil-MRS

Brazilian Materials
Research Society

Excellence in the union of science and research
in materials technology in Brazil

Program Book

Welcome message

On behalf of the board of the Brazilian Materials Research Society (B-MRS), I welcome all the participants to its 2018 Meeting in Natal, state of Rio Grande do Norte. This is the XVII edition of B-MRS Meeting which brings together materials scientists and engineers, in addition to researchers from many other fields. The relevance of research in materials has been reinforced for the growing positive impacts of new technologies for the society; for example, with human beings living longer and better owing to new diagnostic and therapeutic tools that benefit from the progress on materials science and engineering. I highlight this point to emphasize the importance of generating and transferring knowledge. This is especially important in Brazil today in view of the growing problems with funding for science, technology and education. The cuts in the investment on science, technology and innovation over the last few years is compromising the country's scientific system with terrible consequences for the future of Brazil. But we cannot lose hope and I expect that our B-MRS Meeting in Natal will be as vibrant and proficuous as it has always been. It is my hope that the XVII B-MRS Meeting will be a sign of resilience of our community. Let me finish by thanking the organizers and sponsors of the 2018 B-MRS Meeting, and wishing all the participants a very fruitful week in Natal.

Oswaldo Novais De Oliveira Jr.

President of Brazil MRS

Welcome to the XVII Brazilian MRS Society Meeting

Dear Participants,

With great honor, I welcome all the participants to the 17th Annual Meeting of the Brazilian Materials Research Society (Brazil-MRS). From September 16 to 20, 2018, the sunny city of Natal will host a journey of technical and scientific exchange of experiences in the field of Materials Science and Technology.

Our community worked diligently to provide a multidisciplinary and diverse technical program for this year's meeting. I take this moment to express my gratitude to the 76 colleagues who dedicated their time and effort to organize the 21 symposia of the meeting, accounting for six major thematic areas: biomaterials, electrical and optical properties of materials, energy, materials' characterization and degradation, materials' synthesis and processing, and nanostructured and functional materials.

Overall, the technical program of the meeting consists of 1,666 submissions, resulted from the work of 4,617 authors, reported and approved by 185 reviewers. More than 1,000 participants have already confirmed their presence beforehand. This is a clear demonstration of the strength of our community, whose resilience allowed the 17th Meeting of the Society to take shape during difficult times and financial challenges to fund science and technology in our country.

During the meeting, eight plenary lectures will be delivered by internationally renowned researchers, specialists in frontier topics in the field of Materials Science and Technology.

The meeting will also host another edition of the Young Researchers' School: a tutorial on scientific writing and the editorial process, which brings together hundreds of young researchers.

I also welcome a new partner to our annual event, Boeing Brazil that, in addition to becoming a sponsor of the meeting, contributed to the technical program proposing a celebrated initiative named Aerospace Materials and Manufacturing Challenge. I am sure the participants will enjoy it.

For the opening ceremony, the Organization Committee and B-MRS staff have prepared a pleasant cultural and social program. However, the highlight of the night will undoubtedly be the Memorial Lecture to be presented by Prof. Fernando Galembeck, who needs no further introduction.

Since Natal is not the place to work day and night in and out, the conference party will take place on the evening of September 19, in a place selected to provide a beautiful view of Ponta Negra beach and a refreshing sea breeze that comes right off the ocean.

The closing ceremony will feature the awards of B-MRS and ACS Publications for the best student works. It has been a long way since Brazil-MRS has chosen Natal as the venue for its 17th meeting, and trusted this team to organize its chief event.

On behalf of the organization committee, I would like to express our gratitude to Brazil-MRS, meeting sponsors and funding agencies, UFRN administration, the local support team of UFRN students, and the tireless and always professional Brazil-MRS staff.

Antonio Eduardo Martinelli
Conference Chair

Organization

Chair

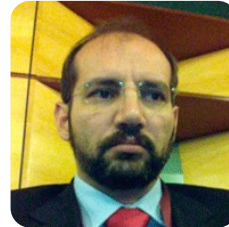


Antonio Eduardo Martinelli
Universidade Federal do Rio Grande do Norte (UFRN)

Organization Committee



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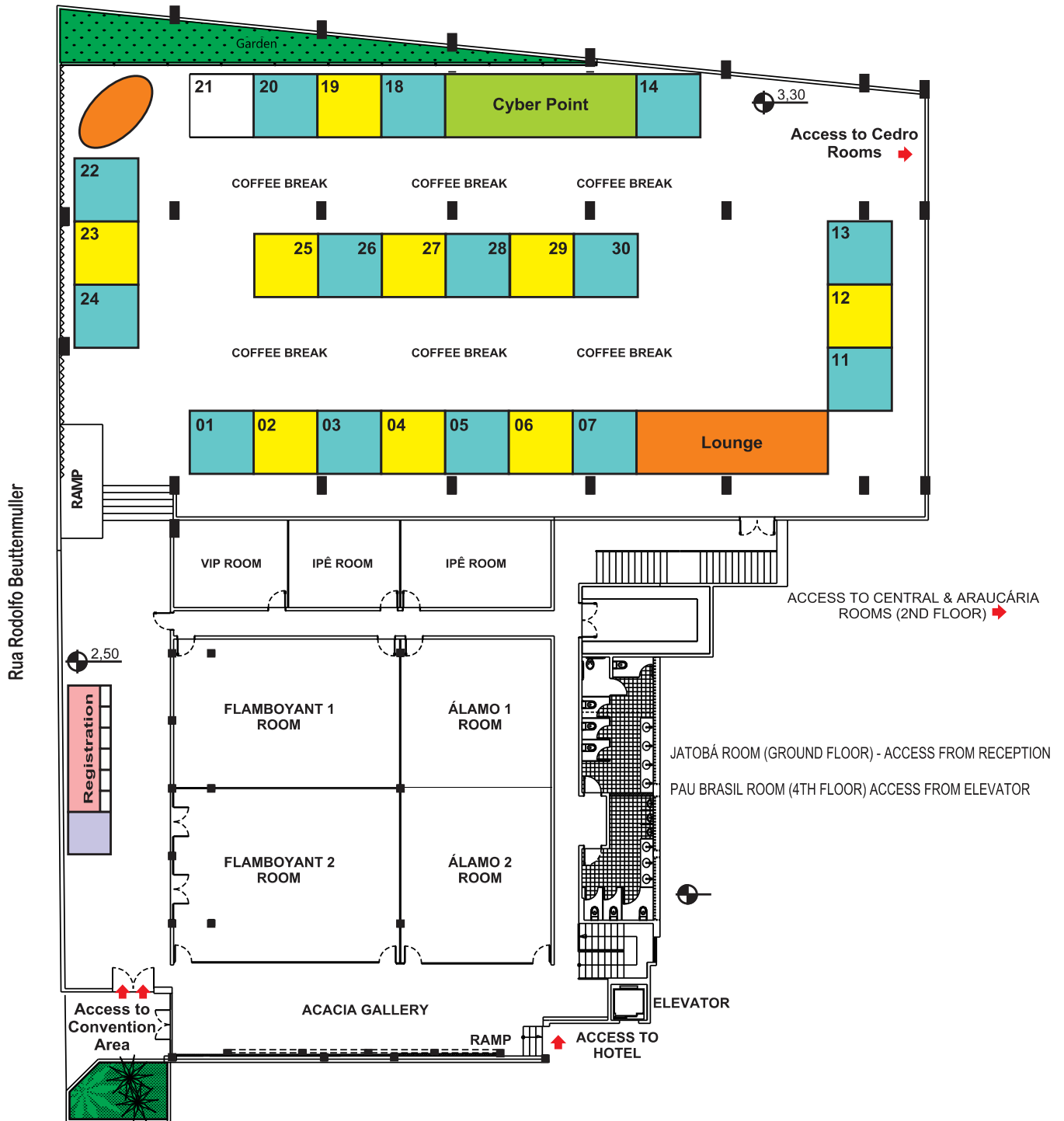
Edvani Curti Muniz
UTFPR

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Maps

CONVENTION & EXHIBITION AREA



Rua Francisco Gurgel, 33

Booth	Exhibitor
1	Horiba
2	Horiba
3	Jeol
4	Anton Paar
5	Avaco
6	UFRN
7	DPUnion
11	Agilent
12	Altmann
13	Zeiss
14	Renishaw

Booth	Exhibitor
18	Thermo Fisher
19	Netzsch
20	Quantum Design International
21	M Braun
22	Análitica
23	Tech Scientific
24	Metrohm
25	Boeing
26	Boeing
27	Tescan
28	Tescan
29	Bruker
30	Bruker

General schedule

	16/out	17/out	18/out	19/out	20/out
07:00 - 08:15		Registration	Registration	Registration	Registration
08:15 - 09:15		Plenary session	Plenary session	Plenary session	Plenary session
09:30 - 10:30		Oral Sessions: A, B, C, E, F, G, N, O, R, T, U	Oral Sessions: B, C, D, E, F, G, H, K, O, T	Oral Sessions: B, C, E, F, H, I, K, O, P, S	Oral Sessions: C, I, K, O, P, Q
10:30 - 11:00		Coffee Break	Coffee Break	Coffee Break	6th Poster Session: D, E, R, U
11:00 - 11:30		Oral Sessions: B, C, E, N, O, R, T, U	Oral Sessions: B, C, D, E, F, G, K, R, T	Oral Sessions: C, D, F, H, I, K, O	Coffee Break
11:30 - 12:00		1st Poster Session: A, F, G, N	3rd Poster Session: C, H, J, O	5th Poster Session: B, C, E, P, Q, S	Registration
12:00 - 12:30			Aerospace Materials and Manufacturing for the Next Century" challenge		Plenary session
12:30 - 13:00		Lunch	Lunch	Lunch	Closing Ceremony
13:00 - 14:00	Workshop: Young Researchers' School: Tutorial on Scientific Writing and the Editorial Process				
14:00 - 16:15		Oral Sessions: A, C, E, F, G, M, N, O, R, T, U	Oral Sessions: B, C, E, F, H, J, O, P, R, T	Oral Sessions: B, C, E, F, H, I, J, K, L, P, S	
16:15 - 16:30		Coffee Break	Coffee Break	Coffee Break	
16:30 - 16:45		Plenary session	Plenary session	Plenary session	
16:45 - 17:00					
17:00 - 17:45	Registration	2nd Poster Session: G, M, O, T	4th Poster Session: I, K, L, P, S		
18:00 - 19:30		Register for a lottery at the Boeing Booth			
19:30 - 21:00	Opening Ceremony and Memorial Lecture				
21:00 - 22:00	Welcome Cocktail			Conference Party at Imirá Plaza Hotel	
22:00 - 00:00					

Program

16 Sunday
September, 2018

- | | |
|---------------|---|
| 13:00 - 17:00 | Young's Researchers School: How to Produce and Publish High Impact Papers
Prof. Dr. Valtencir Zucolotto; Instituto de Física de São Carlos, USP
13:00 - 15:00 High Impact Scientific Writing; Paper Structure, Language; The Editorial Process (Prof Valtencir Zucolotto, GNano/IFSC/USP).
15:00 - 15:30 Coffee and tea break: networking opportunity
15:30 - 17:00 Diversity and Inclusion for Young Scientists, Dr.Christiane Barranguet (Elsevier); Disseminating Scientific Research After Publishing an Article Dr Marlene Silva, (Elsevier) |
| 17:00 - 19:30 | Registration |
| 19:30 - 21:00 | Opening Ceremony and Memorial Lecture
Fernando Galembeck: "Materials for a better future" |
| 21:00 - 22:00 | Welcome Cocktail |

17 Monday
September, 2018

- | | |
|---------------|---|
| 07:00 | Registration |
| 08:15 - 09:15 | Plenary session
Molecular Assembly of Peptide based Materials towards Biomedical Application
Jumbai Li, Institute of Chemistry - Chinese Academy of Sciences, China. |
| 09:30 - 10:30 | Oral Sessions: A, B, C, E, F, G, N, O, R, T, U |
| 10:30 - 11:00 | Coffee Break |
| 11:00 - 12:00 | Oral Sessions: B, C, E, N, O, R, T, U |
| 11:00 - 12:30 | 1 st Poster Session: A, F, G, N |
| 12:30 - 14:00 | Lunch |
| 14:00 - 16:15 | Oral Sessions: A, C, E, F, G, M, N, O, R, T, U |
| 16:15 - 16:45 | Coffee Break |
| 16:45 - 17:45 | Plenary session
Soft Magnetic Nanocrystalline Materials for Inductors and Shielding Applications - Optimized for higher Frequencies
Christian Polak, Vacuumschmelze GmbH & Co. KG, Hanau, Germany |
| 17:00 | Registration for Aerospace Materials and Manufacturing Challenge Closes (Boeing Booth) |
| 18:00 - 19:30 | 2 nd Poster Session: G, M, O, T |

18 Tuesday
September, 2018

07:00 Registration

08:15 - 09:15 **Plenary session**
Organic polymers: from electret microphones to energy harvesters
Heinz von Seggern, Technical University of Darmstadt, Germany

09:30 - 10:30 Oral Sessions: B, C, D, E, F, G, H, K, O, T

10:30 - 11:00 Coffee Break

11:00 - 12:00 Oral Sessions: B, C, D, E, F, G, K, R, T

11:00 - 12:30 3rd Poster Session: C, H, J, O

12:00 - 14:00 Aerospace Materials and Manufacturing for the Next Century” challenge

12:30 - 14:00 Lunch

14:00 - 16:15 Oral Sessions: B, C, E, F, H, J, O, P, R, T

16:15 - 16:45 Coffee Break

16:45 - 17:45 **Plenary session**
Spectroscopy of collective excitations in oxide heterostructures
Bernhard Keimer, Max-Planck-Institute for Solid State Research, Germany

18:00 - 19:30 4th Poster Session: I, K, L, P, S

19 Wednesday
September, 2018

07:00 Registration

08:15 - 09:15 **Plenary session**
Materials for the Optimization of Solar Energy Harvesting
Carlos F. O. Graeff, Laboratório de Novos Materiais e Dispositivos - Faculdade de Ciências UNESP, Brazil

09:30 - 10:30 Oral Sessions: B, C, E, F, H, I, K, O, P, S and EXP - Exhibitors

10:30 - 11:00 Coffee Break

11:00 - 12:00 Oral Sessions: C, D, F, H, I, K, O

11:00 - 12:30 EXP - Exhibitors

11:00 - 12:30 5th Poster Session: B, C, E, P, Q, S

12:00 - 14:00 Aerospace Materials and Manufacturing for the Next Century” challenge

12:30 - 14:00 Lunch

14:00 - 16:15 Oral Sessions: B, C, E, F, H, I, J, K, L, P, S

14:00 - 16:30 EXP - Exhibitors

16:15 - 16:45 Coffee Break

16:45 - 17:45 **Plenary session**
Novel structural and functional materials from biomass via sustainable strategies
You-Lo Hsieh, University of California, Davis

21:00 - 00:00 Conference Party at Imirá Plaza Hotel

07:00 Registration

08:15 - 09:15 **Plenary session**

Polysaccharide hydrogels: a versatile tool for biomedical and pharmaceutical applications

Pietro Matricardi, Department of Drug Chemistry and Technologies - Sapienza University of Rome, Italy

09:30 - 11:00 Oral Sessions: C, I, K, O, P, Q

09:30 - 11:00 6th Poster Session: D, E, R, U

11:00 - 11:30 Coffee Break

11:30 - 12:30 **Plenary session**

Catalyst materials for solar refineries, synthetic fuels and procedures for a circular economy of the CO₂

Joan Ramón Morante Leonart, Institut de Recerca en Energia de Catalunya (IREC), Spain

12:30 - 14:00 Closing Ceremony

Memorial Lecture “Joaquim Costa Ribeiro”

Sunday, September 16th

20:00 - 21:00



Fernando Galembeck

Brazil

Title: Materials for a Better Future

Human development has always relied on the creation, development and transformation of materials to make tools, equipment, buildings and weapons, from the Stone Age to the fourth industrial revolution. Today, new materials development and the production of common materials are threatened by the growing scarcity of raw materials, suggesting the concentration of efforts to increase usage of inputs from renewable or abundant sources, including biomass. The use of agricultural land for energy and raw materials production has been challenged, but real examples from Brazil and Ethiopia show the synergy in the production of food, energy and raw materials production, as opposed to the presumed competition. In the past 30 years, the author concentrated on two topics: i) the making of nanocomposites, especially those based on natural rubber and cellulose and ii) the role of electrostatics in materials structure, properties and applications. Results are new, “green” processes for making functional materials, e.g. high-performance conductive films and monoliths based on graphite, cellulose and rubber that are being developed to make circuit boards, heaters, supercapacitors and microfluidic/sensing devices. The work on electrostatics led to a new understanding of materials electrostatic charging and to new approaches for energy scavenging, biomass separation and real-time fatigue monitoring.

Plenary talks

Monday, September 17th

8:15 - 9:15



Jumbai Li

Institute of Chemistry - Chinese Academy of Sciences, China

Title: Molecular Assembly of Peptide based Materials towards Biomedical Application

Self-assembly nanomaterials can form well-defined hierarchical structures which provide great opportunities in drug delivery, gene transfection, tissue engineering and biosensing fields. In the past decades, great efforts have been focused on self-assembly of peptide molecules owing to their structural simplicity, biocompatibility, chemical versatility, facile synthesis, and widespread applications. One well-known and the simplest peptide building block is diphenylalanine (FF), the core recognition motif of the Alzheimer's β -amyloid polypeptide. In this lecture, our recent progress on the self-assembly of FF and their applications in biomedicine will be introduced. The polymorphism of FF-based assembly were obtained and easily controlled by the experimental conditions such as solvents, peptide concentrations and crosslinking agents. We hope our approach could help to enrich the diversity of FF-based peptides' assemblies and shed light on the preparation of bio-functional materials.

Monday, September 17th

16:45 - 17:45



Christian Polak

Vacuumschmelze GmbH & Co. KG, Hanau, Germany

Title: Soft Magnetic Nanocrystalline Materials for Inductors and Shielding Applications - Optimized for higher Frequencies

In recent times miniaturization and energy conservation of electronic devices have been demanded more intensively. There is the need for less environmental loads and accordingly for miniaturization a higher frequency and a smaller thickness have been demanded. Among metallic soft magnetic materials, amorphous and nanocrystalline alloys are the most promising candidates for high frequency applications. These relatively new materials developed during the last decades are meanwhile successfully applied in high grade magnetic cores for inductors. We will survey characteristic features of nanocrystalline alloys particularly relevant for inductor and shielding applications at higher frequencies. In particular we will discuss the optimization of the high frequency properties by applying new annealing and processing technologies. As an example, we will discuss nanocrystalline materials with huge anisotropy. Tape wound cores were produced using this nanocrystalline ribbons with linear hysteresis loops and particularly low DC permeability down to $\mu_{DC} = 100$. In the cores of these inductive components highly non-uniform field distributions can occur, depending on the design. Thus, for conventional cores with homogeneous permeability distribution a noticeable degradation of component properties can be observed. This work will show new tape wound cores in which a designed permeability distribution is used in order to avoid the above mentioned issues. On the other hand, we will discuss inductances made of planar sheets used in inductive wireless power transmission systems. Nanocrystalline soft-magnetic shielding material is used to avoid lossy eddy currents being induced in electrically conducting components like batteries or ground layers of electronic circuits.

Tuesday, September 18th

8:15 - 9:15



Heinz von Seggern

Technical University of Darmstadt, Germany

Title: Organic polymers: from electret microphones to energy harvesters

Electrostatics is considered to be an old-fashioned science. However, understanding of dielectric properties has always resulted in amazing applications. On a journey starting with the invention of the electret foil microphone by Sessler and West in 1962 [1] and the discovery of PVDF (Polyvinylidenedifluoride) by Kawai [2] as piezo- and ferroelectric material it will be shown that the continuous need for improvement of the materials has led to new poling techniques, as well as techniques that allow for a deeper insight into charge transport and charge storage. As a result thin films of Teflon FEP (fluoroethylenepropylene) and Teflon PTFE (polytetrafluoroethylene) are recognized as best storage and insulating polymers up today. In 1989 a new approach for ferroelectric polymers has been introduced by VTT Technical Research Center, Finland, which utilizes charging of nonpolar, however, porous polypropylene (PP) to fabricate piezoelectric materials with high piezoelectric coefficients by electrical breakdown in the air filled pores. Due to poor thermal charge stability of PP, search for new materials and structures continues. Therefore it is not surprising that FEP and PTFE are reentering the scene. The latest developments are fusion-bonded FEP tubes forming flat arrays of regularly ordered air cavities. Their piezoelectric properties and physical origin will be presented and possible novel applications, such as energy harvesters will be discussed.

Tuesday, September 18th

16:345 - 17:45



Bernhard Keimer

Max-Planck-Institute for Solid State Research, Germany

Title: Spectroscopy of collective excitations in oxide heterostructures

A grand challenge in the field of correlated-electron physics is the transition from conceptual understanding of collective ordering phenomena to their control and design. We will outline recent results of an experimental program designed to meet this challenge through the synthesis and characterization of metal-oxide heterostructures and superlattices. We will emphasize copper and nickel oxides, where various instabilities such as superconductivity and complex magnetism appear in the vicinity of correlation-driven metal-insulator transitions. We will show how polarized photon-based methods such as resonant inelastic x-ray scattering and Raman scattering can be used to obtain a comprehensive description of collective excitations in these systems, thus obtaining new insights into the origin of the instabilities. We then outline perspectives for control of the phase behavior of correlated electrons in these structures by modifying the occupation of transition metal d-orbitals, the dimensionality of the electron system, and the electron-phonon interaction.

Wednesday, September 19th

8:15 - 9:15



Carlos F. O. Graeff

Laboratório de Novos Materiais e Dispositivos - Faculdade de Ciências UNESP, Brazil

Title: Materials for the Optimization of Solar Energy Harvesting

Solar energy is a very promising source of renewable energy. For this reason, the scientific community is doing great efforts to improve the efficiency of photovoltaic (PV) devices and, at the same time, to reduce its costs and its environmental impact. Dye-sensitized solar cells (DSSC) represents one of the most studied PV technology, in the last 20 years, due to its low costs, facility of fabrication and efficiencies up to 13%. In this respect, our research group proposed novel techniques to reduce the DSSC's costs substituting Pt counter electrodes (CEs) with efficient low-cost materials. Cobalt sulfide (CoS) is a p-type semiconductor with a high catalytic efficiency in the oxidation/reduction of I-/I⁻ redox couple. CoS become very interesting for the preparation of efficient CEs for DSSCs. However, most techniques proposed so far in the literature for the deposition of CoS thin films, does not consider the large-scale applicability of the processes. For this reason, we focused on ink-based techniques, compatible with both screen-printing and ink jet deposition, widespread used in films electronics fabrication. These CEs were also applied in p-type DSSCs based on erythrosine-sensitized NiO with good results in terms of efficiency. However, due to the p-type nature of CoS, it shows photocurrent limitations when a more performant p-type sensitized was used on NiO photocathodes due to the depletion of the majority charge carriers (holes) at the interface with the electrolyte. The chemical precursor route has been applied also for the production of hematite nanoparticles for n-type photoanodes for a future application in tandem DSSCs. Along with the research on DSSCs, we also investigate perovskite-based solar cells (PSCs), which have reached efficiencies up to 23% just in a few years. We recently demonstrated that by using Nb₂O₅ as hole blocking layer hysteresis can be efficiently reduced, and the device becomes more stable. The third class of materials for solar energy conversion that we have investigated are organic semiconductors. Recently we have investigated the charge generation and transfer in cyanine dyes blends using light-induced electron spin resonance.

Wednesday, September 19th

16:45 - 17:45



You-Lo Hsieh

University of California, Davis

Title: Novel structural and functional materials from biomass via sustainable strategies

Biological materials are synthesized by living organisms in a variety of sophisticated structures for unique functions that serve as inspirations for advanced materials. Processing biomass has many challenges due the complex and varied compositions as well as the non-thermoplastic nature and insolubility of biomolecular components. Material development and generation from biomass is envisioned to take advantages of these unique structural attributes while weighing in ways to overcome processing challenges. This presentation will discuss various synthesis and derivation approaches from generating biological nanomaterials to holistic utilization of single feedstock. Robust chemical reactions of biomolecules and biopolymers have been designed to enable them to be soluble, miscible with other polymers and additives, polymerizable and processable into new structures and advanced materials. Streamlined reactive isolation of crystalline domains of cellulose has offered an array of designed nanocelluloses with specific surface chemistries and nanoscale lateral dimensions and aspect ratios to serve as building blocks for chemicals and materials. Sustainable approaches to biomass conversion and utilization require significant scientific endeavor to offer biological material innovations and to meet future needs in advanced materials while reduce demand on non-renewable resources and negative environmental impact.

Thursday, October 20th

8:15 - 9:15



Pietro Matricardi

Department of Drug Chemistry and Technologies - Sapienza University of Rome, Italy

Title: Polysaccharide hydrogels: a versatile tool for biomedical and pharmaceutical applications

In the biomedical and pharmaceutical field, polysaccharide hydrogels are gaining an increasing interest due to a favorable combination of two items: the generally accepted biocompatibility of this class of polymers and the high amount of water content. This combination, resembling the extracellular matrix, is very well accepted by different kinds of human cells, and, as a consequence, polysaccharide hydrogels can be used in internal administrations without interfering with the metabolism and the normal human physiology, thus representing a valuable tool for applications in tissue engineering and drug delivery. The hydrogels can be shaped and used in the form of bulk materials or in the particulate form - from micro to nano dimensions -, thus fulfilling different needs. In particular, nanohydrogels (NHs) are very promising as they can combine the favorable properties of nanotechnologies and the features of the hydrogels. In this contest, the preparation of a new nanoparticulate hydrogel carriers based on the polysaccharides gellan (Ge) and hyaluronic acid (HA), obtained by self-assembly of polysaccharide chains, previously derivatized with hydrophobic moieties, represent an important step onward for some pharmaceutical applications.

Thursday, October 20th

11:30 - 12:30



Joan Ramón Morante Lleonart

Institut de Recerca en Energia de Catalunya (IREC), Spain

Title: Catalyst materials for solar refineries, synthetic fuels and procedures for a circular economy of the CO₂

Nowadays, the circular economy of carbon dioxide constitutes one of the major world challenges. The conversion of CO₂ into value-added chemicals and/or fuels, using renewable energy and earth-abundant elements as well as environmental friendly materials is a key priority. Under this scenario, one can distinguish three different complementary and competitive situations: i) Carbon dioxide closed loop in which this molecule is captured, reduced and oxidized continuously defining an ideal circular economy of the CO₂; ii) Carbon dioxide reduction by thermochemical or plasma procedures and iii) Carbon dioxide reduction by electrochemical (dark and photo) procedures. In all of them, carbon dioxide can give rise to different reduction reactions pathways with several sub products. Consequently, catalyst materials are essentials for increasing selectivity and productivity towards determined sub product such as CO, syngas, formic gas, methanol or even methane. So, aside of the system design constraints, parameters as the over-potential values, charge transfer resistances, are determining the final energy balance as well as the overall efficiency and productivity. In this contribution, the influence of the catalyst characteristics on the final performances, faradaic efficiency and final productivity will be presented and discussed considering over-potentials, Tafel plots and the overall characteristics of the selected catalyst according to the target CO₂R product. Special attention will also be paid on photo electrochemical conditions for reducing the overall cell voltage by increasing solar energy utilization up to achieving free bias conditions required for pure artificial photosynthesis under an illumination of one or few suns of the complete device. With this concept we demonstrate industrial feasibility and competitiveness of the solar-to-fuel (STF) conversion efficiency values as alternative for the future energy models considering solar refineries as paradigm of the artificial photosynthesis based on distributed photoelectrochemical procedures, PEC.

Technical lectures

WEDNESDAY, SEPTEMBER 19

Oral presentations

SESSION EXP.1 (09:30 - 10:30) - Room Ipê

- 09:30 Bruker New Developments on Electron Microscopy Accessories, Micro X-ray Fluorescence (Micro-XRF) and Total Reflection X-Ray Fluorescence (TXRF)** EXP.1.1
Daniel Andrade¹; ¹Bruker
- 10:00 Scanning Electron Microscope - Advanced Technics and Application** EXP.1.2
Rui Eduardo Moreira¹; ¹Tescan do Brasil Instrumentos Científicos Ltda

SESSION EXP.2 (11:00 - 12:30) - Room Ipê

- 11:00 Ultimate Innovations in High Resolution Raman Imaging and NanoRaman Instrumentation** EXP.2.1
Igor Carvalho¹; ¹HORIBA INSTRUMENTS BRAZIL LTDA
- 11:30 Innovative Solutions and Techniques for Materials Research** EXP.2.2
Cristian PERDONÁ¹; ¹Bruker
- 12:00 Better and easier answers through DualBeam™ (FIB-SEM) automation for (S)TEM sample preparation and 3D reconstruction** EXP.2.3
Daniel Phifer¹; ¹Thermo Fisher

SESSION EXP.3 (14:00 - 16:30) - Room Ipê

- 14:00 Rheological analysis of resins using a modern rheometer** EXP.3.1
Gisele Grespan¹; ¹Anton Paar
- 14:30 Simultaneous Fluorescence and Absorbance Measurements: The Ultimate Technology in Optical Spectroscopy** EXP.3.2
Igor Carvalho¹; ¹HORIBA INSTRUMENTS BRAZIL LTDA
- 15:00 Dry scroll vacuum pumps, clean alternative for your lab** EXP.3.3
Marcelo Azevedo¹; ¹Agilent
- 15:30 New advances in correlative nanochemical and nanoelectrical characterization** EXP.3.4
Tiago S. Rodrigues¹; ¹Bruker Nano Surfaces
- 16:00 Vibrational Microspectroscopy Applied to Material Sciences** EXP.3.5
João José Guimarães da Costa¹; ¹Bruker Optics Division

Symposia summary

Biomaterials

A: Nanotoxicology and Nanoregulation: the safe use of manufactured nanomaterials	Valtencir Zucolotto (<i>IFSC-USP</i>) José Mauro Granjeiro (<i>INMETRO, Brazil</i>) Juliana Cancino (<i>IFSC-USP</i>) Bianca Estevão (<i>IFSC-USP</i>)
B: Advanced Materials and Surfaces for Tissue Replacement and Regeneration in Health	Ana Rosa Lopes Pereira Ribeiro (<i>UNIGRANRIO</i>) Luís Augusto Rocha (<i>UNESP</i>) Diego Mantovani (<i>Laval University</i>) Rodrigo Vieira (<i>UFC</i>)
C: (Nano)-materials for Biomedical Applications (NanoBio Symposium-XVII B-MRS Meeting)	Bruno Vinícius Manzolli Rodrigues (<i>Programa de Pós-Graduação em Engenharia Biomédica, Universidade Brasil</i>) Jorge Augusto de Moura Delezuk (<i>Instituto Federal do Paraná - Campus Irati</i>) Mariana Amorim Fraga (<i>Programa de Pós-Graduação em Bioengenharia, Universidade Brasil</i>) Rodrigo Sávio Pessoa (<i>ITA</i>)
Electrical and Optical Properties of Materials	
D: XI Brazilian Electroceramics Symposium	Manuel Henrique Lente (<i>UNIFESP</i>) Daniel Zanetti de Florio (<i>UFABC</i>) Marcelo Ornaghi Orlandi (<i>UNESP</i>)
E: Nanostructured Photonic Materials: Optical Properties and Applications	Luciana Reyes Pires Kassab (<i>CEETEPS</i>) Cid Bartolomeu de Araujo (<i>UFPE</i>) Andrea S. S. de Camargo Alvarez Bernardez (<i>IFSC-USP</i>)
F: Organic Electronics and Bioelectronics - Frontiers in Basic and Applied Research	Welber Gianini Quirino (<i>UFJF</i>) Juliana Eccher (<i>UFSC</i>) Gregório Couto Faria (<i>USP</i>) Douglas José Coutinho (<i>UTFPR</i>) Jesse Quinn (<i>IFSC-USP</i>)
G: Structural, optical and electronic properties of the metal-oxide nanostructures	Daniela Nunes (<i>Universidade Nova de Lisboa - Faculdade de Ciências e Tecnologia</i>) Ana Machado (<i>Universidade Nova de Lisboa - Faculdade de Ciências e Tecnologia, Portugal</i>) Patrícia Carvalho (<i>SINTEF</i>) Alexandre Cunha (<i>Instituto SENAI de Inovação em Processamento a Laser, Instituto da Indústria</i>)

Energy	
H: Metal Oxides-based Nanostructured Materials for Energy Systems and Devices	Silvania Lanfredi (<i>FCT/UNESP</i>) Juan Matos (<i>Technological Development Unit, University of Concepcion, Chile</i>) Antonio Eduardo da Hora Machado (<i>UFU</i>) Marcos Augusto de Lima Nobre (<i>FCT/UNESP</i>)
I: Functional polymer composites for electronics and energy applications	Ricardo J Zednik (<i>Ecole de Technologie Supérieure de Montreal, Canada</i>) Guilhermino Jose Macedo Fechine (<i>MackGraphe</i>) Nicole R Demarquette (<i>Ecole de Technologie Supérieure de Montreal, Canada</i>)
J: Solar driven (photo)electrochemical processes and solar energy conversion	Ana Flavia Nogueira (<i>UNICAMP</i>) Claudia Longo (<i>UNICAMP</i>) Flavio L. de Souza (<i>UFABC</i>) Jilian Nei de Freitas (<i>CTI Renato Archer</i>)
Materials' characterization and degradation	
K: Degradation of materials and solutions to increase its lifespan	Profa. Dra. Polyana Alves Radi (<i>ITA</i>) Profa. Dra. Lucia Vieira (<i>UNIVAP</i>) Prof. Dr. Luis Augusto Rocha (<i>UNESP</i>)
L: Tomography and X-ray microtomography applied to materials and biomaterials	Marcelo Honnicke (<i>UNILA</i>) Walmor Cardoso Godoi (<i>UTFPR</i>) Klaus de Geus (<i>UFPR and Companhia Paranaense de Energia</i>)
Materials' synthesis and processing	
M: Novel sintering processes in Materials Science	Reginaldo Muccillo (<i>UFABC</i>) André G.L. Prette (<i>Lucideon, UK</i>)
N: Structure-properties relationship of advanced metallic materials	Leonardo Barbosa Godefroid (<i>UFOP</i>) Luiz Carlos Rolim Lopes (<i>UFF</i>) Milton Sergio Fernandes de Lima (<i>IEAv</i>) Juan Perez Ipiña (<i>Universidad Nacional del Comahue - Argentina</i>) Pedro Dolabella Portella (<i>Federal Institute for Materials Research and Testing - BAM/Alemanha</i>)
O: Materials and Fabrication Processes for Aeronautic and Space Applications	Gilberto Carvalho Coelho (<i>EEL-USP</i>) Carlos Angelo Nunes (<i>EEL-USP</i>) Catherine J. Parrish (<i>Boeing</i>) Fernando Ferreira Fernandez (<i>Embraer</i>) José Daniel Diniz Melo (<i>UFRN</i>) Milton Sergio Fernandes de Lima (<i>IEAv/DCTA</i>)
P: Wet-chemical preparation and applications of metal oxides	Mary Cristina Ferreira Alves (<i>UEPB</i>) Sayonara Andrade Elizário (<i>UFPB</i>)
Q: 3D Printing applied to the development of advanced materials	Rosane Michele Duarte Soares (<i>UFRGS</i>) Guilherme Mariz de Oliveira Barra (<i>UFSC</i>) Claudia Merlini (<i>UFSC</i>) Marcos Akira d'Ávila (<i>Unicamp</i>) Edvani Curti Muniz (<i>UTFPR</i>)

Nanostructured and functional materials

R: Computational Design for Development of Functional Materials - Synergy Between Theoreticians and Experimentalists	Miguel A. San-Miguel (<i>IQ/Unicamp</i>) Julio Ricardo Sambrano (<i>UNESP</i>) Edison Zacarias da Silva (<i>IFGW/Unicamp</i>) Elson Longo (<i>UFSCar</i>)
S: Nanofibers, Applications and Related Technology	Annelise Kopp Alves (<i>UFRGS</i>) Cicero Rafael Cena da Silva (<i>UFMS</i>) Claudia Merlini (<i>UFSC</i>) Deuber Lincon da Silva Agostini (<i>UNESP</i>)
T: Surface Engineering: from science to practice	Carlos Alejandro Figueroa (<i>UCS</i>) Felipe de Campos Carreri (<i>Instituto SENAI de Inovação em Engenharia de Superfícies</i>) Fernando Lázaro Freire Jr. (<i>PUC-Rio</i>)
U: Carbon nanocomposites: synthesis and application	Volodymyr Zaitsev (<i>PUC-Rio</i>) Jaqueline Pérola Souza (<i>USP</i>)

Workshop

V: Young Researchers' School: Tutorial on Scientific Writing and the Editorial Process	Valtencir Zucolotto (<i>IFSC-USP</i>)
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Symposia

Biomaterials

Symposium A: Nanotoxicology and Nanoregulation: the safe use of manufactured nanomaterials

Scope of the Symposium: Nanotechnology is a strategic industrial and economic sector showing enormous potential benefits for many societal and environmental domains. Human exposure to manufactured nanomaterials present in consumer products may occur during several phases of their life, which creates a growing interest on how nanoparticles interact with living systems, but some points related to this topic remain a challenge. Innumerable studies are going on to elucidate the mechanisms involved in the interactions of nanoparticles with biological samples. The lack of scientific knowledge and the absence of evidence demonstrating the safety of some nanomaterials make regulation a challenge. Various agencies around the world, are providing specific regulatory guidelines for such materials before their commercialization. In this context, toxicology studies are providing information to guide regulatory decisions toward developing a safety regulatory network to enable the marketing of products before commercialization.

This symposium will discuss the toxicologic aspects of nanomaterials, a topic which is increasing over the world, and has been covered by international conferences. Moreover, it will be the opportunity to present the updates of the international agreement NanoReg between Brazil and EU for the standardization of production and safe use of nanomaterials. The symposium welcomes all researchers in the field of Nanoscience and Nanotechnology that is interesting in the toxicology field. Brazilian and Europeans researchers, in particular, are invited to participate in the symposium as a way of identifying partners and potential collaborative projects between Brazil and EU, following the collaborative research program launched in 2014 by Ministry of Science, Technology and Innovation of Brazil (MCTI) and Inmetro. The symposium will create opportunities for participants to present and share experiences, explore new directions and debate topics with experts from across the globe in the field of nanotoxicology.

We believe the symposium can still attract researchers from the Nanotoxicology networks supported by CNPq in Brazil, as well as researchers from latin america, USA and EU.

Abstracts will be solicited in (but not limited to) the following areas:

- Nanomedicine
- Nanotoxicology
- Ecotoxicology
- Nanomaterials Regulation
- Nanomaterials for Biomedical

Symposium B: Advanced Materials and Surfaces for Tissue Replacement and Regeneration in Health

Scope of the Symposium: Biomaterials have improved or safe the life of millions around the globe. For bone of blood contact applications, astonishing results have been achieved in the past decades. For example, the worldwide incidence of bone disorders has increased in last years and it will remain raising in the future, particularly in aging populations. For blood contact applications, antithrombotic surfaces are still in development after 40 years of research and studies. Therefore, through the adequate combination of

biomaterials, cells and growth factors, new therapies aimed at enhancing tissue repair, organ replacement or regeneration allow us to imagine advanced clinical treatments.

This symposium will focus on advanced biomaterials and surface modifications for tissue regeneration, including biomimetic materials, emerging metallic alloys, ceramics, natural and synthetic polymers, composites, and adhesives, as well as their interactions with proteins, blood, cells and mineral tissues.

By gathering together clinicians, biologists, materials researchers, engineers and industrials, this symposium will highlight the most recent advances on biomaterials for bone and blood-contact strategies for tissue replacement and regeneration.

Abstracts will be solicited in (but not limited to) the following areas:

- Synthesis and characterization of novel biomaterials, including materials from natural sources and biomass
- Bio-imaging for biomaterial assessment and clinical follow-up
- Biomimetic approaches for the development of new surfaces and new biomaterials
- Smart and responsive materials for tissue replacement and regeneration
- Interface between biomaterials and living cells and tissues
- Biomaterials-protein interactions
- Mechanical behavior of biomaterials, conventional and non-conventional (relaxation, visco-elastic, visco-plastic, cyclic, and others) assessment testing
- Degradation of biomaterials, including new class of degradable metals
- Clinical evaluation of new biomaterials
- Scaffolds and bioreactors for tissue engineering and regenerative medicine

Symposium C: (Nano)-materials for Biomedical Applications (NanoBio Symposium-XVII B-MRS Meeting)

Scope of the Symposium: Currently, nanotechnology has been responsible for an unprecedented positive impact in healthcare advances, by merging fundamental and applied sciences as complementary tools envisioning an enhanced quality of life. Recently, a broader spectrum of high performance nanomaterials and material-based nanosystems has been engineered with interests in medical and health-related fields. At the same time, there has been a shift in importance from designing exclusively bioinert materials to instead producing complex bioactive building blocks for mimicking target functions. In this context, this symposium is mainly focused on discussing the latest advances on the next generation of biomedical nanomaterials including their different fabrication approaches and applications. Furthermore, we welcome investigations focusing on the design and characterization of novel biomedical materials and devices as well as their structure-property relationships with biological responses. In addition, a great emphasis will be given to the design of novel (bio)-nanomaterials as potential candidates to integrate multifunctional devices targeting self-assembly materials. Relevant topics include, but not restricted to, biocompatible materials, nanotechnology and drug delivery, tissue engineering and regenerative materials, sensors and biosensors, biomimetics and, materials in orthopedics and clinical dentistry.

Abstracts will be solicited in (but not limited to) the following areas:

- Biocompatible Materials
- Implants and Coatings
- Bioactive Materials
- Materials for Medical Devices
- Materials in Clinical Dentistry
- Materials in Orthopedics and Biomechanics
- Nanotechnology and Drug Delivery
- Development of Sensors and Biosensors

- Tissue Engineering and Regenerative Medicine
- Biomimetics

Electrical and Optical Properties of Materials

Symposium D: XI Brazilian Electroceramics Symposium

Scope of the Symposium: Electroceramics is an important interdisciplinary research area involving mainly physicists, chemists and engineers. Electroceramics is a very attractive area in Materials Science. It is large the number of journals and meetings with publication of many papers with potential technological impact. New materials with outstanding properties and potential technological applications together with old materials presenting actual technological applications and enhanced properties offer a broad field of research opportunities. This symposium, organized by the Brazilian-MRS intends to be a forum for all researchers and students (undergraduate, M. Sc., PhD and Pos-Docs) on electroceramics. The state-of-the-art of R&D on electroceramic materials will be focused with reviews of the present knowledge and forecasts for future developments. Emphasis will be put on the opportunities for experiences exchange and discussions among researchers. Several features of R&D on electroceramics, including novel processing, experimental procedures and technological applications will be considered.

Abstracts will be solicited in (but not limited to) the following areas:

- Synthesis and Processing: powder synthesis; thin and thick film processing and characterization; self-supported structures; multilayer structures; heterostructures; nanostructures; sintering and microstructure development; grain boundary engineering; cerm
- Characterization: dc and ac standard electrical measurements; electrochemical impedance spectroscopy; electrical, magnetic, magnetoelectric characterizations; ionic-electronic mixed conductors; transport phenomena and diffusion; defects in electroceramics
- Applications: Dielectrics; ferroelectric memories; piezoelectrics; non-lead electroceramics; magnetic ceramics; ceramic superconductors; spintronics; sensors and actuators; transducers; varistors; PTC and NTC; solid oxide fuel cells; solid state batterie

Symposium E: Nanostructured Photonic Materials: Optical Properties and Applications

Scope of the Symposium: The symposium's scope is based on recent advances on Nanostructured Photonic Materials and emphasizes their synthesis, characterization, optical properties and applications. The search for new nanostructured materials with relevant properties to attend various necessities of society has been playing an important role and leading to the development of new technologies. Topics of interest are: nanocomposites, nanocrystalline powders, metamaterials, photonic crystals, plasmonic nanomaterials and nanostructures, semiconductor nanocrystals, nanometric films, nanocolloids, metal and dielectric nanoparticles, organic nanostructures, hybrid nanostructures.

Abstracts will be solicited in (but not limited to) the following areas:

- Photonic crystals: lasers and novel applications
- Novel routes for preparation of nanocrystalline powders, organic nanostructures, dielectric and metallic nanoparticles
- Plasmonics and Nanophotonics
- Metamaterials and negative index materials
- Two-dimensional materials for photonics (Graphene, MoS₂, etc)

- Synthesis and optical properties of semiconductor quantum dots, colloidal and vitreous nanocomposites
- Hybrid nanostructures: fabrication and applications in biophotonics, bioelectronics, and medicine
- Characterization, spectroscopy and non-linear optical properties of photonic and plasmonic materials
- Modeling, computational techniques and verification of theory

Symposium F: Organic Electronics and Bioelectronics - Frontiers in Basic and Applied Research

Scope of the Symposium: The Symposium will address progress at the frontiers of fundamental as well as applied research on organic- and bio-related materials for new technologies, including all types of organic/inorganic functional materials, semiconducting species for electronics and bioelectronics applications. The research topics comprise all types of synthesis, processing techniques (molecular crystals, multilayers, self-assemblies, printing techniques, and thin films), compounds (composites and blends), micro- and nano-fabrication, interfaces, spectroscopic characterization (linear and non-linear), morphology and their electronic and optoelectronics properties. In addition, the symposium is equally opened for any type of electronic, photonic and hybrid devices, such as: light-emitting diodes (LEDs), field-effect transistors (FETs), MIS capacitors, diodes, electrochemical transistors, photovoltaics (PVs), thermoelectrics, integrated circuits, non-volatile memories, supercapacitors, batteries, sensors, actuators & detectors. In this context, the Symposium aims to bring together chemists, materials scientists, biologist, physicists, and engineers from both academia and industry to share information and discuss the future of Organic Electronics and Bioelectronics to argue our current understanding and to define future trends of this exciting field.

Abstracts will be solicited in (but not limited to) the following areas:

- Synthesis and characterization of conjugated molecules and polymers, hybrid, and compounds
- Natural/biocompatible electronic materials
- Mixed ion-electron conduction
- Interfaces and bulk properties: advances in material processing
- Photonic, photophysics, and photochemistry of conjugated molecules and polymers
- Electronic, photonic, hybrid and carbon-based devices
- Micro- and nano-fabrication of organic or hybrid materials
- Interfacing biology to electronics
- Organic sensors and biosensors
- Theoretical modeling of conjugated molecules or polymers and organic devices

Symposium G: Structural, optical and electronic properties of the metal-oxide nanostructures

Scope of the Symposium: Metal oxides are an interesting class of materials largely investigated nowadays, and displaying unique properties that include mechanical stress tolerance, high optical transparency, exceptional carrier mobilities, among others. These materials can adopt several and distinct structural geometries with electronic structures that can exhibit metallic, semiconductor or insulator characters. The intrinsic properties of this sort of materials is directly related to their size and structural characteristics. Bulk oxides are usually stable and robust with well-defined crystallographic structures. However, generally at the nanoscale range, materials tend to display improvements on mechanical, physical and chemical properties. In general, nanomaterials have high surface/volume ratios that increase as the nanoparticle size decreases. Several metal-oxide materials have been reported in the last years, however the most investigated ones are centred on being low-cost, nontoxic, highly stable, earth-abundance, and so on. Zinc

oxide (ZnO), titanium dioxide (TiO₂), tungsten oxide (WO₃), copper oxide (CuO and Cu₂O), tin oxide (SnO and SnO₂), vanadium oxide (VO₂, V₂O₅) have all these prerequisites, despite some of them being environmentally friendly and easily produced. This symposium will focus on the key features of ZnO, TiO₂, WO₃, copper, tin and vanadium-based oxide nanostructures, as well as the techniques available for their complete structural, optical and electronic characterization. The nanostructure performance in all possible applications is intimately linked to their intrinsic properties and characteristics.

Abstracts will be solicited in (but not limited to) the following areas:

- Nanostructured metal-oxide materials (ZnO, TiO₂, WO₃, copper, tin and vanadium-based oxide nanostructures)
- Low cost and innovative production routes
- New technology trends and applications
- Structural, optical and electronic properties
- Advanced characterization techniques

Energy

Symposium H: Metal Oxides-based Nanostructured Materials for Energy Systems and Devices

Scope of the Symposium: Promoting energy efficiency and renewable power is critical to meeting mankind's future needs. The demand of world energy is increasing but the major sources of energy still come from the Earth's reserves of fossil fuels particularly oil, coal and natural gas. Besides the commonly used steam or dry methane reforming from natural gas, water splitting appears to be a very promising solution to produce hydrogen in the pursuit of carbon-free and environmentally friendly energy. In addition, many studies have been performed about advanced nanomaterials and processes for water purification and to produce clean and renewable hydrogen fuel by photocatalytic and photoelectrocatalytic water splitting, and the photocatalytic reduction of carbon dioxide to fuels, with low cost, efficiently, and with less energy. In recent years there has been increasing interest in the use of transition metal oxides (Ti⁴⁺, Zr⁴⁺, Nb⁵⁺, Ta⁵⁺, Mo⁶⁺, W⁶⁺, Ga³⁺, Fe³⁺, In³⁺, Ge⁴⁺, Sn⁴⁺, Sb⁵⁺, etc) for a variety of energy system applications ranging from solar energy conversion systems to catalysts and electrocatalysts. These metal oxide systems are all derived from elements that are significantly more abundant than for example the platinum group or other noble or semi-precious metals. Therefore, the focus of this symposium is on the advances in developing novel nanostructured materials for the eco-friendly conversion and storage of solar energy, mainly photocatalytic materials for the solar water splitting for hydrogen production, conversion of CO₂ to fuels, solar fuels, and environmental and health applications including water treatment and disinfection, air purification, self-cleaning surfaces for the built environment, and the disinfection of surfaces for healthcare applications.

Abstracts will be solicited in (but not limited to) the following areas:

- Nanostructured photocatalytic semiconducting oxides.
- Photocatalysts modification and doping (e.g. by noble metal, C nanotubes, graphene, molecular clusters, novel materials etc.).
- Photocatalysis for water treatment and disinfection.
- Innovative synthesis and characterization methodologies
- Self-cleaning surfaces for the built environment.
- Self-cleaning/disinfecting surfaces for healthcare applications.
- Photocatalytic and photoelectrocatalytic splitting of water to yield H₂.
- Energy recovery from wastewater by reforming of pollutants to yield H₂.

- Carbon dioxide reduction/artificial photosynthesis.
- New technology trends and applications, Solar Fuels.

Symposium I: Functional polymer composites for electronics and energy applications

Scope of the Symposium: This symposium will cover the latest advancements in the field of functional polymer composites and nanocomposites for electronic and energy industries. It will bring together scientists and engineers working in this field to exchange opinions on new techniques of characterization, fabrication, processing, and to discuss the applications of these materials.

Of specific interest are the understanding on the underlying phenomena governing the formation of morphology of these materials to tailor their properties, as well as innovative applications using these materials.

Abstracts will be solicited in (but not limited to) the following areas:

- Fundamentals of composites and nanocomposites for electronics and energy
 - Synthesis
 - Control of interfaces
 - Control of rheological properties
 - Modeling the evolution of their morphology
- Novel polymer composite material systems and processing techniques
 - Graphene and carbon nanotube nanocomposites
 - Metallic nanocomposites
- Advanced functional properties
 - Conductive polymers
 - Electroactive polymers
 - Piezoelectric polymers
- New processing techniques of these materials
 - Electrospinning
 - Additive manufacturing
 - Spray-dryer
- Applications of composites and nanocomposites for electronics and energy
 - Sensing and imaging
 - Electromagnetic shielding
 - Energy storage applications
 - Food packaging
 - Biomedical

Symposium J: Solar driven (photo)electrochemical processes and solar energy conversion

Scope of the Symposium: This symposium is dedicated to contributions in the development of novel materials and devices applied to the conversion of solar energy into electrical and chemical energy, i.e., new generation solar cells and the development of efficient solar driven routes to synthesize relevant solar fuels from molecules and CO₂. Special emphasis in nanomaterials and devices applied for water splitting process assisted by photoelectrochemical cells (PEC), production of H₂, alcohols or hydrocarbons from CO₂ and water. The symposium is also dedicated to the development of novel (nano)materials, new architectures, interfaces and contacts in new generation solar cells (perovskite, organic and hybrid and dye

sensitized solar cells and modules and Tandem) and fundamental investigations on the physical-chemical properties of this important class of semiconductors.

Abstracts will be solicited in (but not limited to) the following areas:

- New generation of solar cells (organic and hybrid, dye sensitized solar cells): novel materials (hole and electron transport layers, contacts, metal oxide interfaces), life time and stability, new techniques for fabrication, encapsulation, and printing of
- Perovskite-based solar cells: stability and life time studies, physical chemical and opto-electronic properties, new materials (hole and electron transport layers, contacts, metal oxide interfaces), film structure and morphology
- Carbon nanotubes, fullerenes, graphene and other nanomaterials applied to solar cells
- Materials for down conversion/up conversion processes
- Advances in materials design and control, bandgap engineering, quantum confinement, and plasmonic effects to enhance the solar energy device conversion
- Large-area processing and fabrication of solar modules
- Tandem and multi-absorber solar cells
- Photoelectrochemical cells (PEC)
- Solar driven electrochemical and photoelectrochemical processes
- Novel catalysts, photocatalyst and nanostructured materials for hydrogen production
- Hydrocarbon synthesis from CO₂ reduction
- Theoretical approaches to designing and discovering novel concepts for solar energy conversion

Materials' characterization and degradation

Symposium K: Degradation of materials and solutions to increase its lifespan

Scope of the Symposium: Nowadays, the research for new materials and solutions to reduce wear, corrosion, and fatigue is vital to minimize energy consumption.

This symposium covers all aspects of degradation of metallic, ceramic, polymeric and composite materials, together with the characterization techniques needed to understand degradation phenomena. Solutions to increase the lifespan of materials submitted to degradation and corrosion, tribological fundamentals, tribocorrosion, tribotesting (micro and nanoscale), tribomaterials and in-situ tribology are also included.

We welcome contributions to improve scientific and mechanistic understanding of the degradation of materials, characterization tools, and solutions to avoid or reduce degradation.

Abstracts will be solicited in (but not limited to) the following areas:

- Advanced materials and tribomaterials
- Biotribology
- Corrosion
- Degradation of materials
- Lubrication and lubricants, including solid lubricants
- Materials for corrosion control
- Mechanisms of friction and wear
- Surface treatments and multifunctional surfaces
- Tribocorrosion and biotribocorrosion
- Tribology fundamentals

Symposium L: Tomography and X-ray microtomography applied to materials and biomaterials

Scope of the Symposium: High-resolution x-ray microtomography uses x-rays to create cross-sections of a physical object that can be used to recreate a virtual model (3D model) without destroying the original object. While medical and industrial tomography equipment has resolution in the order of millimeters, microtomography allows for the visualization of the interior of materials in the micrometers order. This technology has shown to be promising both in studies of new materials and in new industrial sectors. The aim of this symposium is to promote the interaction between researchers from the academic and industrial sectors interested in the research, development, methodology, practice and use of microtomography applied to materials (metals, polymers and composites).

Abstracts will be solicited in (but not limited to) the following areas:

- Tomography and microtomography of materials and biomaterials
- Computational algorithms and tomographic tools applied to materials analysis
- Characterization of porous materials and biomaterials using microtomography
- Tomographic and microtomographic instrumentation
- Characterization of materials and biomaterials using microtomography

Materials' synthesis and processing

Symposium M: Novel sintering processes in Materials Science

Scope of the Symposium: To gather researchers and students pursuing research on sintering. Emphasis will be put on the application of non-conventional sintering techniques, such as electric-field assisted pressureless sintering, spark plasma sintering, flash sintering, flash spark plasma sintering, microwave sintering, laser sintering, two-step sintering, and cold sintering.

Abstracts will be solicited in (but not limited to) the following areas:

- Mechanisms, microstructural evolution, in situ measurements, nanostructured x microstructure materials, modeling and simulation, scaling from the lab up.
- Spark plasma sintering; flash spark plasma sintering
- Electric field-assisted sintering; flash sintering
- Microwave sintering
- Laser sintering
- Fast firing sintering
- Two-step sintering
- Cold sintering

Symposium N: Structure-properties relationship of advanced metallic materials

Scope of the Symposium: The search for new materials with improved properties now occupies an important position in the engineering world. A number of procedures have been recently proposed to aid the development of materials science and engineering. For example, the advents of the scanning tunneling microscope and the atomic force microscope, together with developments in electron microscopy, have opened new ways for the study of structure materials at the nano-scale. Advances in the field of fracture mechanics and its application to structural design and material selection have helped to offset some of the potential dangers posed by increasing technological complexity, and have undoubtedly prevented a

substantial number of structural failures. The development of thermo-mechanical processing in steel industry changed the traditional concept of deformation processing, when the single operation to reduce thickness and to provide a desirable shape has been improved to produce specific microstructures, with which are associated particular mechanical and physical properties. This Symposium deals with these topics, to show some of the new most important scientific and technological advances in materials science and engineering. The Symposium seeks to bring together experts from academia and industry, through various multi-disciplinary themes. This is an event that has grown in public and in quality since its launch in 2009. The average number of submitted papers is above 200.

Abstracts will be solicited in (but not limited to) the following areas:

- Techniques for microstructure and properties characterization
- Fracture mechanics applied to structural integrity
- Light alloys (Al, Mg, Ti) for automotive and aeronautical applications
- Recent developments in steels for automotive industry and for gas/oil pipelines
- Materials to resist fatigue and creep
- Recent technologies for welding procedures

Symposium O: Materials and Fabrication Processes for Aeronautic and Space Applications

Scope of the Symposium: The scope of the symposium is to promote the networking of researchers from the academic and industrial sectors interested in the research, development, manufacture and application of aeronautic and space materials (metals, ceramics, polymers and composites).

Abstracts will be solicited in (but not limited to) the following areas:

- Modeling and simulations
- Materials properties and characterization
- Materials degradation and protection
- Manufacturing of materials and components
- Additive manufacturing
- Sustainable and cost-effective materials & processes

Symposium P: Wet-chemical preparation and applications of metal oxides

Scope of the Symposium: The synthesis of inorganic materials is a very important area of research and play a key role in many fields ceramics, catalysts, medicines, food, etc. The preparation method is the base for improving knowledge about the composition, morphology and dimensions scale of the materials, consequently this is crucial for the observed properties. In the last years, much effort has been taken to increase the quality and functionality of different metal oxides, since in the form of thick films or powder properly. The morphology and scale of active materials are essential and it must be the starting point for the control of the functional parameters of the final device. The desire to approach certain properties of these materials has naturally prompted research in the design and synthesis of metal oxides, consisting of both conventional and new ones, which display potential utility in applications, including pigments, catalytic conversions, photocatalysis, chemical sensors, photovoltaics or new emerging areas. In this context, the methods of preparation of these materials, have become the object of study of the scientific community because they play an important role in the obtained properties, which has favored the numerous applications. In this symposium, researchers are invited to present summaries reporting the influence of synthesis on the structural and morphological properties of materials, as well as their applications.

Abstracts will be solicited in (but not limited to) the following areas:

- Materials with differentiated morphologies by chemical synthesis
- Synthesis of core-shell systems
- Thin films obtained by chemical solution deposition
- Oxides obtained from wet chemical methods
- Properties and applications of metal oxides

Symposium Q: 3D Printing applied to the development of advanced materials

Scope of the Symposium: 3D printing has not only fastened the development of new materials construction solutions, but also driven a renewed interest in existing architectures in materials science and novel designs. The focus of this symposium will be to discuss the state-of-the-art in the development of materials using the 3D-printing technique. Several advances in this field were achieved in the last decade which show the possibilities of using tailored materials, at micro- and nanometric dimensions, for technological applications. The 3D printing is a process for rapid manufacturing objects from 3D model data. Through this process, materials such as metals, ceramics and polymers can be joined to make objects with designed functionalities. Despite achievements in the development of printable materials with improved performance are realistic, some challenges still exist. This symposium will provide multidisciplinary viewpoints on the state-of-the-art on 3D printing science/technology for engineered materials beyond discussions involving physics, chemistry, biology, and other topics. Materials selection, manufacturing objects, final properties and applications will be the main topics of this symposium. Perspectives on the future directions on 3D printing on materials science will also be discussed.

Abstracts will be solicited in (but not limited to) the following areas:

- 3D printed materials for biomedical applications
- 3D printed materials for analytical applications
- Hydrogels and 3D printing
- Components prepared by 3D printing
- Materials for biotechnology
- Cell laden materials for 3D printing
- Selection of materials suitable for 3D printing
- Rapid prototypes by 3D printing

Nanostructured and functional materials

Symposium R: Computational Design for Development of Functional Materials - Synergy Between Theoreticians and Experimentalists

Scope of the Symposium: This symposium aims to discuss research frontiers and joining studies in theoretical and experimental areas in the control and understanding of intrinsic and extrinsic properties of functional materials.

The main idea is to promote discussions involving fundamental and technological aspects of materials systems that may lead to the improvement, understanding and foreseeing of the properties of technological devices. It will be desirable to gather researchers actively working in Materials Science focusing on nanomaterials with functional properties and using both theoretical methods or experimental techniques to characterize electronic and structural properties. This meeting intends to open up new opportunities to collaboration between experimentalists and theoreticians improving the ways to gain insights into the atomistic understanding of the nanomaterials. The list of invited speakers includes several world leaders in computational simulations showing how the theoretical contributions can significantly aid the experimental

observations to gain a better knowledge in Materials Science. Several participants for oral contributions will be selected among the best abstracts. This symposium took place successfully in similar format in SBPMat meetings since 2004 to 2013.

Abstracts will be solicited in (but not limited to) the following areas:

- Computational simulation methods and experimental techniques applied to study structural and electronic properties of surfaces and bulks related to functional materials
- Nanostructured materials
- Development and application of art state computational methodologies applied to Materials Science
- Materials with potential application in energy generation and environment
- Transparent conducting oxides
- Electron-material interaction
- Chemical reactions in materials synthesis
- Metal nanoparticles growth from electron beam irradiation
- Computational design of biomaterials
- Theoretical insights in catalysis

Symposium S: Nanofibers, Applications and Related Technology

Scope of the Symposium: Nanofibers has been attracted many attention of the scientific community, as result of their unique properties. This symposium aims to provide a profitable environment for dissemination and discussion of projects and research related but not limited to Design, Processing and Applications of Nanofibers. Aiming to foster a greater interaction between research groups from different Brazilian Universities and Companies, dedicated to experimental techniques and theoretical understanding on the the Synthesis, Characterization and Applications of Nanofibers, produced by different techniques, such as: electrospinning, blow-spinning, rotating spinning, etc. It is thus expected that the symposium that strategically brings together researchers in related areas will provide a pleasant and rich discussion environment.

Abstracts will be solicited in (but not limited to) the following areas:

- Processing of Fibrous Materials, Polymer Reactions and Synthesis
- Synthesis and Physical Properties of Nanofibers
- Processing design and development
- Polymer, ceramic, metal and composite nano/microfibers
- Green materials and sustainability
- Theory and simulation related to the process and/or materials properties
- Applications of nano/microfibers including filtration and water remediation processes, biomedical applications, optoelectronics, food packaging, smart wearables and textiles, energy harvesting and storage, catalysis, sensor and actuators etc.

Symposium T: Surface Engineering: from science to practice

Scope of the Symposium: The aim of this symposium is to offer an overview on the frontiers of research, technology, and potential and new applications to the market of functional coatings and surface modifications by plasma, electron, ion or laser beams, and wet chemistry processes. Physicists, chemists, materials scientists, chemical, mechanical, material, metallurgical and mining engineers working in the field are the target audience and also technicians, managers, directors from industry.

Abstracts will be solicited in (but not limited to) the following areas:

- Super hard coatings and/or nanostructured coatings

- Smart and/or self-repairing surfaces
- Decorative coatings
- Ultra-low friction coatings, including 2D-materials
- (Super) hydrophobic and hydrophilic coatings
- Coatings for oil and gas industry
- Coatings for automotive and machinery industries
- Coatings for aeronautic and aerospace industries
- Biocompatibility and anti-microbial and self-cleaning surfaces
- Surface engineering for mining industries
- Surface texturization
- Surface metrology
- Plasma-assisted diffusion techniques in metal alloys
- New deposition techniques
- Recent progress in nanoindentation
- Macro/micro/nanotribology
- Advanced surface characterization

Symposium U: Carbon nanocomposites: synthesis and application

Scope of the Symposium: Discuss recent progress in preparation of carbon nanodots, nanodiamonds, fullerene and graphene derivatives, carbon nanotubes and their application in medicine energetic technology etc.

Abstracts will be solicited in (but not limited to) the following areas:

- Carbon nanodots: synthesis, properties and applications
- CVD and impact nanodiamonds. Optical and electrochemical properties. Application in biotechnology
- Graphene derivatives and their application
- Carbon nanotubes and hybrid carbon-containing nanocomposites

Workshop

V: Young Researchers' School: Tutorial on Scientific Writing and the Editorial Process

Scope of the Workshop: The " Young Researchers' School " aims to develop / improve / strengthen the skills necessary for researchers to do High Impact science, upon knowing the state of the art in specific areas. The School will be offered to under and Graduate students and post-docs.

It is hoped that researchers can optimize their potential in doing research, with regard to:

- 1) Development of national and international research projects with bold objectives, and implementation of high-level scientific research. Such an approach is essential to promote significant advances at the frontier of knowledge of each area.
- 2) Production of international scientific articles, through appropriate and efficient writing.

SYMPOSIUM A - Nanotoxicology and Nanoregulation: the safe use of manufactured nanomaterials

Symposium organizers:

Valtencir Zucolotto (IFSC-USP)
José Mauro Granjeiro (INMETRO, Brazil)
Juliana Cancino (IFSC-USP)
Bianca Estevão (IFSC-USP)

MONDAY, SEPTEMBER 17

Oral presentations

* Invited Lecture

SESSION A. 01 (09:30 - 10:30) - Room Álamo 2

- 09:30 Caenorhabditis elegans: in vivo model to determine oral uptake, nanotoxicity, and efficacy of melatonin-loaded lipid-core nanocapsules on paraquat damage** A.O1.1*
Silvia Guterres¹; ¹Federal University of Rio Grande do Sul
- 10:00 Using Cell Membranes as active materials in Nanomedicine and Nanotoxicology** A.O1.2
Juliana Cancino Bernardi¹, Paula Lins¹, Valeria Spolon Marangoni¹, Fabrício A. dos Santos¹, Valtencir Zucolotto¹; ¹Instituto de Física de São Carlos
- 10:15 Exposure effects of titanium implants' wear products to bone tissue cells** A.O1.3
Bruna Costa¹, Alexandra Alves², Fatih Toptan², Ana Maria Pinto², Liliana Grenho³, Maria Helena Fernandes³, Dmitri Petrovykh⁴, Luís Augusto Rocha¹, Paulo Noronha Lisboa-Filho¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade do Minho, ³Faculdade de Medicina Dentária Universidade do Porto, ⁴International Iberian Nanotechnology Laboratory

Poster presentations

SESSION P1 (11:00 - 12:30)

- 11:00 Effects of copper oxide nanoparticles on the tropical fish *Hyphessobrycon eques*** P1.A.1
Adriana da Silva Mansano¹, Jaqueline Pérola Souza¹, Juliana Cancino Bernardi¹, Francine Perri Venturini¹, Valtencir Zucolotto¹; ¹Nanomedicine and Nanotoxicology Group, IFSC, USP
- 11:00 Graphene oxide-containing electropun nanofibers for skeletal muscle cells scaffolds** P1.A.2
Thiers Massami Uehara¹, Ieda Maria Martinez Paino², Fabrício A. dos Santos¹, Vanessa Priscila Scagion^{3,4}, Daniel Souza Corrêa⁴, Valtencir Zucolotto⁵; ¹Instituto de Física, Universidade de São Paulo, ²IFSC, USP, SAO PAULO, ³Universidade Federal de São Carlos, ⁴Empresa Brasileira de Pesquisa Agropecuária - Embrapa Instrumentação - CNPq, ⁵Instituto de Física de São Carlos
- 11:00 Nanometric Systems for Controlled Release of Fertilizers** P1.A.3
Yolice Patricia Moreno Ruiz^{1,2}, André Galembeck², João Henrique Zimnoch Dos Santos¹; ¹Universidade Federal do Rio Grande do Sul, ²Centro de Tecnologias Estratégicas do Nordeste
- 11:00 LBL films of natural gums with gold nanoparticles and their use in the construction of electrochemical sensors** P1.A.4
Lucas Samuel Soares dos Santos¹, Heltoney Antonio Rodrigues da Silva¹, Carla Verônica Rodarte de Moura²; ¹Fundação Universidade Federal do Tocantins, ²Universidade Federal do Piauí

- 11:00 Synthesis of SBA-15 with functionalization of 2-mercaptobenzoimidazole and gold nanoparticles: a potential material for sensors** P1.A.5
Helttoney Antonio Rodrigues da Silva¹, Keleen Moraes Barbosa¹, Carla Verônica Rodarte de Moura², Lucas Samuel Soares dos Santos¹; ¹Fundação Universidade Federal do Tocantins, ²Universidade Federal do Piauí
- 11:00 Preparation and evaluation of multi-purpose insecticidal formulations obtained by reverse extrusion pellets** P1.A.6
Lucas Tenorio Bezerra¹, Diogo Porpino Cordeiro Batista¹, Henrique Fonseca Goulart¹, Antônio Eusébio Goulart Sant'ana¹, Luciano Aparecido Meireles Grillo¹, Camila Braga Dornelas¹; ¹Universidade Federal de Alagoas
- 11:00 Structural and functional modifications of α -thrombin through interactions with ultrasmall gold nanoparticles** P1.A.7
André Luís Lira¹, Rodrigo Ferreira¹, Ricardo José Soares Torquato¹, Maria Luiza Vilela Oliva¹, Alioscka Augusto Sousa¹; ¹Universidade Federal de São Paulo
- 11:00 Influence of high energy milling and addition of Nb on the densification and microstructure of a WC-Cu composite** P1.A.8
Renan Sávio de Almeida Coelho¹, Franciné Alves Costa¹, Uílame Umbelino Gomes¹; ¹Universidade Federal do Rio Grande do Norte
- 11:00 Study of the synthesis and functionalization of silica nanoparticles with nitrogen groups for immobilization of reactive blue dye 15** P1.A.9
André Cavalcante de Lima¹, Helttoney Antonio Rodrigues da Silva¹, Keleen Moraes Barbosa¹, Lucas Samuel Soares dos Santos¹; ¹Fundação Universidade Federal do Tocantins
- 11:00 Experimental study of CuO nanoparticle contamination in soils.** P1.A.10
Elizabeth Mendes de Oliveira¹, Gabrielle Tavares Maia¹, Maxwender Borges de Oliveira¹, Jonni Guiller Ferreira Madeira¹, Jose Adilson de Castro²; ¹Centro Federal de Educação Tecnológica Celso Suckow da Fonseca, ²Universidade Federal Fluminense
- 11:00 Experimental and numerical study of soil contamination by nanoparticles of TiO₂, SiO₂ and ZnO** P1.A.11
Elizabeth Mendes de Oliveira¹, Gabrielle Tavares Maia¹, Maxwender Borges de Oliveira¹, Jonni Guiller Ferreira Madeira¹, Jose Adilson de Castro²; ¹Centro Federal de Educação Tecnológica Celso Suckow da Fonseca, ²Universidade Federal Fluminense

SESSION A. 02 (11:00 - 12:00) - Room Álamo 2

- 11:00 Regulation of Nanomaterials** A.O2.1*
Ary Corrêa Junior¹; ¹Universidade Federal de Minas Gerais

SESSION A. 03 (14:00 - 16:15) - Room Álamo 2

- 14:00 Advances on Physicochemical Characterisation of Nanomaterials: Towards a Safe by Design Approach** A.O3.1*
Patrícia Maria de Albuquerque Farias¹; ¹Universidade Federal de Pernambuco
- 14:30 Nanoecotoxicology: effects of nanomaterials and classic pollutants in aquatic biota** A.O3.2*
Francine Perri Venturini¹; ¹Nanomedicine and Nanotoxicology Group, IFSC, USP
- 15:00 Use of organic-inorganic hybrid materials containing Cu²⁺ ↔ Cu⁺ pairs in the dye AB29 degradation.** A.O3.3
Gustavo Palacio¹, Elen Maria Feliciano Pereira¹, Camila Toledo Piza¹, Sandra Helena Pulcinelli¹, Celso Valentim Santilli¹; ¹Instituto de Química de Araraquara

- 15:15** *Artemia franciscana* as a live vector in neurotoxicity assays: a proof of concept using the psychotropic drug olanzapine **A.O3.4**
Sueli Tavares de Souza Silva¹, Daniela Nadvorny¹, Lizeth Carolina Mojica Sánchez¹, Monica Felts de La Roca Soares¹, Petrus d'Amorim Santa-Cruz¹; ¹Universidade Federal de Pernambuco
- 15:30** Correlations between catalytic activity and swelling behavior of zeolite loaded organic-inorganic hybrid materials **A.O3.5**
Elen Maria Feliciano Pereira¹, Gustavo Palacio¹, Celso Valentim Santilli¹, Sandra Helena Pulcinelli¹; ¹Instituto de Química de Araraquara
- 15:45** Molecular interactions in langmuir films relevant for therapy in nanomedicine **A.O3.6**
Bianca Sandrino¹, Osvaldo Novais de Oliveira Jr^{1,2}; ¹Universidade de São Paulo, ²IFSC, USP, SAO PAULO

SYMPOSIUM B - Advanced Materials and Surfaces for Tissue Replacement and Regeneration in Health

Symposium organizers:

Ana Rosa Lopes Pereira Ribeiro (UNIGRANRIO)

Luís Augusto Rocha (UNESP)

Diego Mantovani (Laval University)

Rodrigo Vieira (UFC)

MONDAY, SEPTEMBER 17

Oral presentations

* Invited Lecture

SESSION B. 01 (09:30 - 10:30) - Room Ipê

- 09:30 Tailoring of Mg and Ti surfaces to win the race: osseointegration Vs. bacterial colonization** **B.O1.1***
Geetha MANIVASAGAM¹, Magesh Sankar¹, Vasanth Gopal¹, Revathi Alexandre¹, Jithin Vishnu¹, Vignesh KM², Caterina Bartomeu Gracia², Thomas J. Webster³; ¹Centre for Biomaterials, Cellular and Molecular Theranostics, VIT, ²Department of Chemical Engineering Northeastern University, ³Northeastern University
- 10:00 Electrospun multifunctional hydrogels as scaffolds to reduce bacteria growth and promote bone growth after healing** **B.O1.2**
Anderson Oliveira Lobo^{1,2}, Fernanda Roberta Marciano², Bartolomeu Cruz Viana¹, Thomas Jay Webster³; ¹Universidade Federal do Piauí, ²Instituto de Ciência e Tecnologia, Universidade Brasil, ³Northeastern University
- 10:15 Tuning the surface properties of biomedical Ti-6Al-4V and Ti-15Zr-15Mo alloys with PEO treatment** **B.O1.3**
Diego Rafael Nespeque Correa^{1,2}, Livia Sottovia³, Nilson C Cruz³, Luís Augusto Rocha²; ¹Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, ²Brazilian Branch Institute of Biomaterials, Tribocorrosion and Nanomedicine, ³Laboratory of Technological Plasmas

SESSION B. 02 (11:00 - 12:00) - Room Ipê

- 11:00 Chitosan molecular weight effect on antifungal activity against Sporothrix brasiliensis planktonic cells and biofilm** **B.O2.1**
Lana Glerieide Silva Garcia¹, Raimunda Samia Nogueira Brilhante¹, Rodrigo Silveira Vieira¹; ¹Universidade Federal do Ceará
- 11:15 Production and characterization of thin films based on chitosan for bactericidal application** **B.O2.2**
Rafaela C. Sanfelice¹, Adriana Pavinatto², Ana Cláudia Granato Malpass¹; ¹Universidade Federal do Triângulo Mineiro, ²Universidade Brasil
- 11:30 Novel metastable β -Ti alloys for biomedical applications** **B.O2.3**
Carlos Roberto Grandini^{1,2}, Barbara Letícia Tomaz Pedroso^{1,2}, Giovana Collombaro Cardoso^{1,2}, Israel Ramos Rodrigues^{1,2}, Karolyne dos Santos Jorge Sousa^{1,2}, Mariana Luna Lourenço^{1,2}, Pedro Akira Bazaglia Kuroda^{1,2}, Tatiani Ayako Goto Donato^{1,2}; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Institute of Biomaterials, Tribocorrosion and Nanomedicine - Brazilian Branch
- 11:45 Tribocorrosion Behaviour of Functionalized TiO₂Nanotubes for Biomedical Applications** **B.O2.4**
Sofia Afonso Alves¹, Luis Augusto Rocha²; ¹Universidade do Minho, ²Faculdade de Ciências - UNESP - Campus de Bauru

TUESDAY, SEPTEMBER 18

Oral presentations

* Invited Lecture

SESSION B. 01 (09:30 - 10:30) - Room Ipê

- 09:30 From the bench to the bedside: biodegradable carbonate apatite for bone repair** **B.O1.1***
Jose Mauro Granjeiro¹, Monica Calasans-Maia², Adriana Terezinha Neves Novellino Alves², Suelen Sartoretto², Alexandre Malta Rossi³; ¹Instituto Nacional de Metrologia, Qualidade e Tecnologia, ²Universidade Federal Fluminense, ³Centro Brasileiro de Pesquisas Físicas
- 10:00 3D preosteoblasts aggregates for the evaluation of medical materials cytotoxicity** **B.O1.2**
Ana Carolina Batista Brochado¹, Daniela Costa Silva¹, Vinicius Schott Gameiro¹, Gutemberg Gomes Alves¹; ¹Universidade Federal Fluminense
- 10:15 The two faces of titanium dioxide nanoparticles bio-camouflage in 3D bone spheroids** **B.O1.3**
Wanderson Souza¹, Sara Gemini Piperni², Priscila Laviola Sanches³, André Linhares Rossi², Maria Isabel Dória Rossi⁴, Bráulio Archanjo¹, Paulo Emílio Corrêa Leite⁴, Radovan Borojevic⁵, Luís Augusto Rocha⁶, Jose Mauro Granjeiro¹, Ana Rosa Ribeiro³; ¹Instituto Nacional de Metrologia, Qualidade e Tecnologia, ²Brazilian Center for Research in Physics, ³Universidade do Grande Rio Professor José de Souza Herdy, ⁴Universidade Federal do Rio de Janeiro, ⁵Faculdade de Medicina de Petrópolis, ⁶Faculdade de Ciências - UNESP - Campus de Bauru

SESSION B. 02 (11:00 - 12:00) - Room Ipê

- 11:00 Osteointegration and bone regeneration properties of thin niobo-phosphate bioactive glass films deposited by pulsed laser deposition** **B.O2.1**
Carolina Kaminski Sanz¹, Marcelo Henrique Prado da Silva², Alexandre Silva Mello³, Elena Mavropoulos Oliveira Tude³, Elvis Oswaldo López Meza³, Aline Raybolt dos Santos¹, Sérgio de Souza Camargo Jr.¹; ¹Universidade Federal do Rio de Janeiro, ²Instituto Militar de Engenharia, ³Centro Brasileiro de Pesquisas Físicas
- 11:15 Longitudinal comparison of the ECM proteins from osteoblasts cultivated on different biomaterials** **B.O2.2**
Márcia Sirlene Zardin Graeff¹, Cintia Kazuko Tokuhara¹, Mariana Liessa R Sanches¹, Luís Augusto Rocha^{2,3}, Rodrigo Cardoso de Oliveira^{2,1}; ¹Faculdade de Odontologia de Bauru - USP, ²Brazilian Branch Institute of Biomaterials, Tribocorrosion and Nanomedicine, ³Faculdade de Ciências - UNESP - Campus de Bauru
- 11:30 Activated carbon used as scaffold to osteoblast growing: Biochemical and Morphological Aspects** **B.O2.3**
Patricia Almeida Mattos¹, Maria Lucas Siena Del Bel², Rodney Capp Pallotta², Paulo Henrique Boulitreau Assirati², Gisele Aparecida Amaral-Labat¹, Guilherme Frederico Bernardo Lenz e Silva³, Rodrigo Labat Marcos²; ¹Escola Politécnica de Universidade de São Paulo, ²Universidade Nove de Julho, ³University of Sao Paulo

- 11:45 Fatigue Behavior of Ti6Al4V with Surface Modified by LASER and MAO** **B.O2.4**
Claudemiro Bolfarini¹, Paulo Sergio Carvalho Pereira da Silva¹, Leonardo Contri Campanelli¹; ¹Universidade Federal de São Carlos

SESSION B. 03 (14:00 - 16:15) - Room Flamboyant 1

- 14:00 Multifunctional electrospun fibers for bone tissue engineering applications** **B.O3.1**
 Fernanda Roberta Marciano¹, Anderson Oliveira Lobo^{2,1}, Bartolomeu Cruz Viana², Thomas Jay Webster³; ¹Instituto de Ciência e Tecnologia, Universidade Brasil, ²Universidade Federal do Piauí, ³Northeastern University
- 14:15 Preliminary studies of incorporation of hydroxyapatite particles on Ti surface by one-step micro-arc oxidation: production of functionally graded surfaces (FGSs)** **B.O3.2**
Natália de Araújo da Costa¹, André Linhares Rossi², Luis Augusto Rocha^{3,1}; ¹Institute of Biomaterials, Tribocorrosion and Nanomedicine - Brazilian Branch, ²Brazilian Center for Research in Physics, ³Universidade Estadual Paulista Júlio de Mesquita Filho
- 14:30 Design of strontium-containing coatings for metallic surfaces using lipids monolayers** **B.O3.3**
Marcos Antonio Cruz¹, Pietro Ciancaglini¹, Ana Paula Ramos¹; ¹Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto - USP
- 14:45 Development and characterization of Ti-Nb matrix composites for biomedical applications** **B.O3.4**
Vinícius Richieri Manso Gonçalves¹, Luis Augusto Rocha¹; ¹Faculdade de Ciências - UNESP - Campus de Bauru

WEDNESDAY, SEPTEMBER 19

Oral presentations

* Invited Lecture

SESSION B. 01 (09:30 - 10:30) - Room Araucária

- 09:30 AntiMicrobial Peptide (AMP)-chitosan coatings to avoid biomaterials-associated infection: influence of AMP characteristics and immobilization strategy** **B.O1.1***
 Fabiola Costa¹, Mariana Barbosa¹, Claudia Monteiro¹, Paula Gomes², Cristina L. Martins¹; ¹INEB - Instituto de Engenharia Biomedica / i3S- Instituto de Investigação e Inovação em Saúde, Universidade do Porto, ²LAQV-REQUIMTE
- 10:00 Nanocarriers based on modified silica for application in the treatment of pressure ulcers** **B.O1.2**
Elayne Valério Carvalho^{1,2,3}, Nayara Coriolano de Aquino⁴, Ricardo de Oliveira Lima², Victor Moreira da Costa¹, Pierre Basílio Almeida Fachine²; ¹Universidade Estadual do Ceará, ²Universidade Federal do Ceará, ³Centro Universitário Christus, ⁴Instituto Federal de Educação, Ciência e Tecnologia do Ceará
- 10:15 Development of material based on mesoporous magnetic polyaniline restricted access for extraction of coumarins in rat plasma** **B.O1.3**
Flávia Viana Avelar Dutra¹, Bruna Carneiro Pires¹, Anny Talita Silva¹, Hanna Leijoto Oliveira¹, Keyller Bastos Borges¹; ¹Universidade Federal de São João Del Rei

Poster presentations

SESSION P5 (11:00 - 12:30)

- 11:00 The transformation temperatures in Ti-Ni-Cu alloys** P5.B.1
George Carlos Santos Anselmo¹, Walman Benicio de Castro¹; ¹Universidade Federal de Campina Grande
- 11:00 Synthesis and evaluation of epoxy vitrimers with metal catalysts** P5.B.2
Rodrigo Honorato Cunha¹, Diego de Holanda S. Souza¹, Marcio Nele², Marcos L. Dias¹; ¹Instituto de Macromoleculas Professora Eloisa Mano, ²Tecnologia de Processos Quimicos e Bioquimicos - EQ -UFRJ
- 11:00 Whole heart decellularization: a study of process optimization using bioreactor** P5.B.3
Isabella Caroline Pereira Rodrigues^{1,2}, Andreas Kaasi³, Rubens Maciel Filho^{1,4,5}, Eder Socrates Najar Lopes¹, André Luiz Jardim^{1,4,5}, Laís Pellizzer Gabriel^{1,2}; ¹Universidade Estadual de Campinas, ²Faculdade de Ciências Aplicadas, ³EVA Scientific LTDA., ⁴Faculdade de Engenharia Química, ⁵Instituto Nacional de CeT em Biofabricação
- 11:00 Obtaining the Biofunctional Porous Structure of the Ti-Nb-Sn Alloy, with the use of Mg, Via Powder Metallurgy** P5.B.4
Mariana Correa Rossi¹, Daniel Leal Bayerlein², Margarida Juri Saeki³, Ana Liz Garcia Alves¹; ¹Faculdade de Medicina Veterinária e Zootecnia, Universidade Estadual Paulista Júlio de Mesquita Filho, ²Instituto de Pesquisas Tecnológicas, ³Instituto de Biocências, Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:00 Human bone: Structural changes, time and rate dependency, validity of experiments performed on bone** P5.B.5
AHMET HIKMET UCISIK¹; ¹ATILIM UNIVERSITY and TURKISH AEROSPACE INDUSTRIES
- 11:00 Effect of the concentration of silver nanoparticles in thermosensitive composites** P5.B.6
Andressa Mayumi Kubo¹, Francisco Nunes de Souza Neto¹, Renata Lang Sala¹, Emerson Rodrigues Camargo¹; ¹Universidade Federal de São Carlos
- 11:00 Effect of titanium on structure and microstructure of biomedical Zr-25Ta-Ti alloys** P5.B.7
Pedro Akira Bazaglia Kuroda¹, Fernanda de Freitas Quadros¹, Barbara Letícia Tomaz Pedroso¹, Carlos Roberto Grandini¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:00 A new tough, machinable dental glass-ceramic** P5.B.8
Viviane Oliveira Soares¹, Francisco Carlos Serbena², Ivan Mathias², Roney Peterson Pereira¹, Edgar Dutra Zanotto³; ¹Universidade Estadual de Maringá, ²Universidade Estadual de Ponta Grossa, ³Universidade Federal de São Carlos
- 11:00 New Sintered Wollastonite Glass-Ceramic For Biomedical Applications** P5.B.9
Viviane Oliveira Soares¹, Juliana Kelmy Macário Barbosa Daguano², Christiane Bertachini Lombello², Olavo Serafin Bianchin³, Roney Peterson Pereira¹, Livia Maria Garcia Gonçalves³, Edgar Dutra Zanotto³; ¹Universidade Estadual de Maringá, ²Universidade Federal do ABC, ³Universidade Federal de São Carlos
- 11:00 Calcination temperature studies of hydroxiapatita obtained from pirarucu scales** P5.B.10
José Brant Campos¹, Marilza Sampaio Aguilar², Vitor Santos Ramos¹, Adilson Cláudio Quizunda¹, RICARDO GALLUZZI OLIVEIRA³; ¹Universidade do Estado do Rio de Janeiro, ²Universidade Estácio de Sá, ³AUTÔNOMO

- 11:00 Synthesis of Wollastonite Cement (CaSiO₃) for Biomedical Applications and the Influence of α and β Phases on Cement Crystallization Kinetics** P5.B.11
 Fernanda Moreira Marques¹, Tiago Moreira Bastos Campos², Gilmar Patrocínio Thim², Mariana Motisuke¹; ¹Universidade Federal de São Paulo, ²Instituto Tecnológico de Aeronáutica
- 11:00 Evaluation of the surface finish of ceramic materials in green through turning using cutting tools with different geometries** P5.B.12
Marcos Gonçalves Júnior¹, Carlos Alberto Fortulan², Luiz Sanchez¹, Cesar Renato Foschini¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade de São Paulo
- 11:00 Permethrin polymerization on polyamide fabric by hybrid corona-dielectric barrier discharge operating in atmospheric pressure** P5.B.13
 André Petraconi¹, Alonso Hernan Ricci Castro¹, Fernando Gasi², Edison Bittencourt¹, Larissa Nascimento¹, Gilberto Petraconi Filho¹, Felipe Souza Miranda¹, Homero Santiago Maciel¹; ¹Instituto Tecnológico de Aeronáutica, ²Universidade Federal do ABC
- 11:00 Novel Na₂O-K₂O-CaO-SiO₂-P₂O₅ bioactive glass-ceramics for application as intervertebral spacers** P5.B.14
Lais Dantas Silva¹, Fernanda Cunha Puosso¹, Murilo Camuri Crovace¹, Edgar Dutra Zanotto¹; ¹Universidade Federal de São Carlos
- 11:00 Hydroxyapatite synthesis by the method of precipitation using pirarucu scales as calcium precursor** P5.B.15
José Brant Campos¹, Marilza Sampaio Aguilar², Vitor Santos Ramos¹, Adilson Cláudio Quizunda¹, RICARDO GALLUZZI OLIVEIRA³; ¹Universidade do Estado do Rio de Janeiro, ²Universidade Estácio de Sá, ³AUTÔNOMO
- 11:00 Electrospun biocomposit membranes of plga and calcium phosphates for application in guided bone and tissue regeneration** P5.B.16
Vivian Inês dos Santos¹, Marcio Celso Fredel¹, Claudia Merlini¹, Águedo Aragonés¹; ¹Universidade Federal de Santa Catarina
- 11:00 Preparation, characterization and influence of some heat treatments in Ti-Mo-Mn alloys** P5.B.17
Mariana Luna Lourenço¹, Karolyne dos Santos Jorge Sousa¹, Tatiani Ayako Goto Donato¹, Carlos Roberto Grandini¹; ¹Faculdade de Ciências - UNESP - Campus de Bauru
- 11:00 Study of the effect of SrO on the bioactivity of the glass CaNaB system** P5.B.18
Florianio Guimarães Neto¹, Franciana Pedrochi¹, Alysson Steimacher¹; ¹Universidade Federal do Maranhão
- 11:00 Microstructure and mechanical characterization of Ti-15Zr-15Mo-xAg for biofunctional materials applications** P5.B.19
Jhulienne Elen Torrento¹, Carlos Roberto Grandini¹, Diego Rafael Nespeque Correa^{2,1}; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Instituto Federal de Educação, Ciência e Tecnologia de São Paulo
- 11:00 Preparation of bioactive composite consisting of porous ceramic substrate covered by ZrO and Si nanoparticles via Laser Ablation in the Liquid (LAL)** P5.B.20
Estela Melaré Ribeiro Dos Santos^{1,2}, Tomáš Krenek², Tomáš Kovářík²; ¹Universidade Federal de São Carlos, ²University of West Bohemia
- 11:00 Growth, optical, vibrational and morphological characterization of TiO₂ and poly (sodium 4-styrenesulfonate) coatings for dental implant applications.** P5.B.21
Igor Lebedenco Kitagawa¹, Paulo Noronha Lisboa-Filho¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:00 Development of UHMWPE composites for orthopedic applications** P5.B.22
Mônica Rufino Senra¹, Maria de Fátima Vieira Marques¹, Diego de Holanda S. Souza¹, Rafaella Barbosa de Lima¹; ¹Universidade Federal do Rio de Janeiro

- 11:00 Synthesis and characterization of porous bone cements with controlled release of strontium** P5.B.23
Larissa Tomazela¹, Ana Paula Ramos¹, Maria Sol Brassesco Annichini¹, Edgard Eduard Engel²; ¹Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto - USP, ²Faculdade de Medicina de Ribeirão Preto
- 11:00 Obtention and characterization of nanocomposites of Calcium Phosphate with Hydroxyurethane polydimethylsiloxane obtained by CO₂ fixation** P5.B.24
Elton Faria de Souza Lima¹, Ubirajara Pereira Rodrigues Filho¹; ¹Instituto de Química de São Carlos
- 11:00 Development of EVOH / PVP blends for use in tissue engineering** P5.B.25
Gustavo Costa Pereira¹, Lilia Muller Guerrini², Maurício Pinheiro de Oliveira^{2,3}, Tatiane Moraes Arantes⁴, Fernando Henrique Cristovan⁴; ¹Universidade Federal de Goiás, ²Universidade Federal de São Paulo, ³Departamento de Ciência de Tecnologia, ⁴Universidade Federal de Jataí
- 11:00 Thermal-alkaline treatment applied in fish scale Arapaima Gigas (Pirarucu) species to obtain nanostructured hydroxyapatite** P5.B.26
KARYANE MEAZZA¹, Jean Carlos Silva Andrade¹, Ana Alice Oliveira Barros¹, Mateus Oliveira de Amorim¹; ¹Universidade Federal do Amazonas
- 11:00 Tube-like particles as potential biomaterials containing phosphate with different molar ratio of the Ca²⁺ and Sr²⁺** P5.B.27
Tamires Maira Oliveira^{1,2}, Camila Bussola Tovani^{1,2}, Ana Paula Ramos²; ¹Universidade de São Paulo, ²USP- Ribeirão Preto
- 11:00 Statistical analysis of the mechanical properties of dental glass-ceramics** P5.B.28
Gustavo Henrique Barbosa de Andrade¹, Roney Peterson Pereira², Viviane Oliveira Soares², Mariana de Oliveira Carlos Villas Boas³, Acácio Lins do Valle¹, Vincenzo M. Sglavo⁴; ¹Faculdade de Odontologia de Bauru - USP, ²Universidade Estadual de Maringá, ³Universidade Federal de São Carlos, ⁴Università degli Studi di Trento
- 11:00 Synthesis and characterization of cellulose acetate for application as biomaterial** P5.B.29
Joelen Osmari da Silva¹, Jéssica Souza Rodrigues¹, Anna Maria G. Melero², Karina Palmezani Carmo², Roberta Ranielle Matos Freitas², Vagner Roberto Botaro^{2,1}; ¹Universidade Federal de São Carlos, ²Universidade Federal de Ouro Preto
- 11:00 Mechanical characterization of graphene-reinforced alumina for application as biomaterial** P5.B.30
Cristian Guilherme Barbosa Pereira¹, Carlos Alberto Fortulan², Vicente Gerlin Neto³, Rogério Valentim Gelamo⁴, Cesar Renato Foschini¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade de São Paulo, ³Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, ⁴Universidade Federal do Triângulo Mineiro
- 11:00 Bioactive biopolymeric membranes reinforced with hydroxyapatite for tissue engineering application** P5.B.31
Lucas Fabrício Bahia Nogueira¹, Ana Paula Ramos¹; ¹Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto - USP
- 11:00 Investigation of the Coagulant Activity and Low-cost Industrial Extraction of Pilocereus Gounellei Mucilage for Use as Partial Substitute for Polymeric Flocculants in Waste Treatment Plants.** P5.B.32
Priscyla Lima De Andrade¹, Andryelle Gelvana dos Santos Rabelo^{2,1}; ¹Centro Universitário UniFBV | Wyden, ²Faculdade Boa Viagem
- 11:00 Characterization of sodium alginate films loaded with simvastatin for wound dressing** P5.B.33
John Alef Carvalho da Silva¹, Fábيا Karine Andrade¹, Rodrigo Silveira Vieira¹; ¹Universidade Federal do Ceará

- 11:00 Preparation and microstructural characterization of Zr-Ti alloys** **P5.B.34**
Fernanda de Freitas Quadros¹, Pedro Akira Bazaglia Kuroda¹, Carlos Roberto Grandini¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:00 Some chemical and structural properties of Ti-10Mo-30Zr alloy** **P5.B.35**
Israel Ramos Rodrigues¹, Raul Oliveira de Araújo², Carlos Roberto Grandini¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Federal University of Sao Carlos
- 11:00 Microcharacterization and Dynamical Mechanical Analyses in Ti-Zr-Mo** **P5.B.36**
Marcos Ribeiro da Silva¹, Pedro Akira Bazaglia Kuroda², Raul Oliveira de Araújo³, Carlos Roberto Grandini²; ¹Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, ²Universidade Estadual Paulista Júlio de Mesquita Filho, ³Universidade Federal de São Carlos
- 11:00 Effect of substitutional elements on the mechanical properties of Ti-15Mo-Mn system alloys.** **P5.B.37**
Giovana Collombaro Cardoso¹, Mariana Luna Lourenço¹, Carlos Roberto Grandini²; ¹Faculdade de Ciências - UNESP - Campus de Bauru, ²Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:00 A rheological study of curcuminoid gels** **P5.B.38**
Denise Ramos Moreira¹, Matheus da Silva Câmpelo¹, Lillian Maria Uchôa Dutra Fechine¹, Maria Elenir Nobre Pinho Ribeiro¹, Nágila Maria Pontes Silva Ricardo¹; ¹Universidade Federal do Ceará
- 11:00 Influence of calcium phosphate coating on Alumina bioceramics produced by the replica method and its application as bone grafts** **P5.B.39**
André Diniz Rosa da Silva¹, Conceição de Maria Vaz Elias², Eliria Maria de Jesus Agnolon Pallone¹, Anderson Oliveira Lobo^{3,4}; ¹Universidade de São Paulo, ²Universidade Brasil, ³Universidade Federal do Piauí, ⁴Instituto de Ciência e Tecnologia, Universidade Brasil

SESSION B. 03 (14:00 - 16:15) - Room Álamo 2

- 14:00 Surface and biological properties of poly(ϵ -caprolactone)/hydroxyapatite/multilayer graphene oxide composites** **B.O3.1**
Guilhermino José Macedo Fechine¹, Vinícius Rosa², Pablo Andrés Riveros Muñoz¹, Camila Fernanda de Paula Oliveira¹, Gabriela S. Medeiros¹; ¹Universidade Presbiteriana Mackenzie, ²National University of Singapore
- 14:15 Manufacture of ordered magnesium AZ31 foams for potential use as bioabsorbable implants** **B.O3.2**
Luisa Fernanda Marulanda Zapata¹, Jonathan David López Carmona¹, Alejandro Alberto Zuleta Gil¹, Gloria Patricia Fernandez Morales¹; ¹Universidad Pontificia Bolivariana

SYMPOSIUM C - (Nano)-materials for Biomedical Applications (NanoBio Symposium-XVII B-MRS Meeting)

Symposium organizers:

Bruno Vinícius Manzolli Rodrigues (Programa de Pós-Graduação em Engenharia Biomédica, Universidade Brasil)
Jorge Augusto de Moura Delezuk (Instituto Federal do Paraná - Campus Irati)
Mariana Amorim Fraga (Programa de Pós-Graduação em Bioengenharia, Universidade Brasil)
Rodrigo Sávio Pessoa (ITA)

MONDAY, SEPTEMBER 17

Oral presentations

* Invited Lecture

SESSION C. 01 (09:30 - 10:30) - Room Cedro

09:30 Carbon-based and Hybrid nanomaterials for Better Medicine C.O1.1*

Volodymyr Zaitsev¹, Albina Mikhraliieva¹, Kostiantyn Turcheniuk², Volodymyr Turcheniuk³; ¹Pontificia Universidade Católica do Rio de Janeiro, ²Georgia Institute of Technology, ³National Taras Shevchenko University of Kyiv

10:00 Nanostructured systems based on carbon nanodots for delivery and release of the chemotherapeutic 5-Fluorouracil C.O1.2

Elaine Sá Menezes Cutrim¹, André Alvares Marques Vale¹, Lígia Nunes de Moraes Ribeiro², Eneida de Paula², Ana Paula Silva de Azevedo dos Santos¹, Ana Clécia Santos de Alcântara¹; ¹Universidade Federal do Maranhão, ²Universidade Estadual de Campinas

10:15 Graphene oxide and aminoferrocene nanoplatform for cystatin C detection in renal failure patients C.O1.3

Erika Ketlem Gomes Trindade¹, Bárbara Virgínia Mendonça Silva¹, Gilvânia Marinete Santana¹, Rosa Fireman Dutra¹; ¹Universidade Federal de Pernambuco

SESSION C. 02 (11:00 - 12:00) - Room Cedro

11:00 Graphene oxide functionalization of Surface Plasmon Resonance gold sensors for improved detection of Prostate Specific Antigen C.O2.1

Celina Massumi Miyazaki¹, Flávio Makoto Shimizu², Marystela Ferreira¹; ¹Universidade Federal de São Carlos, ²Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais, Campinas

11:15 Exploring plasmonic nanostructures for biomolecular sensing C.O2.2

Sajid Farooq¹, Diego Rativa¹, Renato de Evangelista Araujo²; ¹Universidade de Pernambuco, ²Universidade Federal de Pernambuco

11:30 Capacitance of molybdenum disulfide (MoS₂) nanosheets: an analytical tool for biosensing C.O2.3

Gustavo Arantes Lorga¹, Cecilia de Carvalho Castro e Silva¹; ¹Graphene and Nanomaterials Research Center - Mackgraphpe, Mackenzie Presbyterian University

11:45 Hybrid composite multifunctional of iron oxide nanocubes funcionalized with Eu³⁺ ions and nanobiointeraction with red blood cells C.O2.4

Luelc Sousa da Costa^{1,2}, Latif Ullah Khan², Lidiane Silva Franqui^{2,3}, Fabrício de Souza Delite², Diego Muraca¹, Diego Stefani Teodoro Martinez², Marcelo Knobel¹; ¹Universidade Estadual de Campinas, ²Centro Nacional de Pesquisa em Energia e Materiais, ³Faculdade de Tecnologia da Universidade Estadual de Campinas

SESSION C. 03 (14:00 - 16:15) - Room Cedro

- 14:00 Towards the Development of Mechanochromic Polymers for Biomedical Applications** C.O3.1*
Sachin Khapli¹; ¹New York University Abu Dhabi
- 14:30 Hybrid lipid/silica-based modular nanosystem for biomedical applications** C.O3.2
Tatiane Eufrásio-da-Silva¹, Garry Paul Duffy¹, Bruce Paul Murphy², Eduardo Ruiz-Hernandez³; ¹Tissue Engineering Research Group (TERG), Department of Anatomy, Royal College of Surgeons in Ireland (RCSI), ²Mechanical and Manufacturing Eng. Department, Trinity College Dublin (TCD), ³School of Pharmacy and Pharmaceutical Sciences, Trinity College Dublin (TCD)
- 14:45 Study of photothermal effect in Conjugated Polymers** C.O3.3
Deize Corradi Grodniski¹, Lucimara Stolz Roman¹, Marlus Koehler^{1,2}; ¹Universidade Federal do Paraná, ²Departamento de Física
- 15:00 Core/Shell nanoparticles based on magnetite, mesoporous silica and polymer coating for controlled drug delivery and targeting systems** C.O3.4
Alex Alavarse¹, Aryane Tofanello², Bruna Castanheira¹, Jean Jacques Bonvent¹; ¹Fundação Universidade Federal do Abc, ²Universidade Federal do ABC

TUESDAY, SEPTEMBER 18

Oral presentations

* Invited Lecture

SESSION C. 01 (09:30 - 10:30) - Room Cedro

- 09:30 Current trends and challenges in biofabrication using nanomaterials and biomaterials: from nature to 4D bioprinting** C.O1.1*
Luciano Paulino Silva¹; ¹Embrapa Recursos Genéticos e Biotecnologia
- 10:00 Layer-by-layer biopolymer assembly and cell adhesion studies for antibacterial coatings and biomedical applications** C.O1.2
Jesús Jacobo Hernández-Montelongo¹, Eliane G Lucchesi², Vicente Franco Nascimento¹, Ismael Jose Gonzalez³, Waldemar Augusto de Almeida Macedo³, Daisy Machado¹, Marcelo Lancellotti¹, Ângela Maria Moraes¹, Marisa Masumi Beppu¹, Monica Alonso Cotta¹; ¹Universidade Estadual de Campinas, ²Itibanyl Produtos Especiais LTDA, ³Centro de Desenvolvimento da Tecnologia Nuclear
- 10:15 Micro/nanomotors applied in bioengineering** C.O1.3
Jorge Augusto de Moura Delezuk¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Paraná

SESSION C. 02 (11:00 - 12:00) - Room Cedro

- 11:00 ZnO nanostructures-based sensitive electrochemical biosensors for ZIKA virus** C.O2.1
Aline Macedo Faria¹, Talita Mazon¹; ¹Centro de Tecnologia da Informação Renato Archer

- 11:15 Polymeric nanofibers and zinc oxide nanoparticles for the controlled release of antimicrobials drugs** C.O2.2
Flávia Gontijo da Silva¹, Rubén Dario Sinisterra¹; ¹Universidade Federal de Minas Gerais
- 11:30 An electrochemical sensor based on SBA-15 doped with AgNPs carbon nanotube paste electrode for selective determination of sulfamethoxazole in the presence of paracetamol** C.O2.3
Oleg Tkachenko^{1,2}, Luana V. Souza¹, Leliz Ticona Arenas¹, Edilson Valmir Benvenuti¹; ¹Universidade Federal do Rio Grande do Sul, ²V. N. Karazin Kharkiv National University
- 11:45 Drug-carriers nanotubes derived from Kaolinite intercalation: analysis of two protocols in the presence of iron contamination** C.O2.4
Manoel Vítor Borel Gonçalves¹, Antônio Valadão Cardoso², Fabrício Vilela Parreira³; ¹Universidade Federal de Ouro Preto, ²Universidade do Estado de Minas Gerais, ³Centro de Tecnologia de Ferrosos/Vale

Poster presentations

SESSION P3 (11:00 - 12:30)

- 11:00 On the antitumor activity of Artepillin C Against Oropharyngeal Carcinoma Cells** P3.C.1
 Mirella Boaro Kobal¹, Maria Julia Bistaffa¹, Karina Alves Toledo¹, Wallance Moreira Pazin², Pedro Henrique Benites Aoki¹; ¹FCL-UNESP Campus de Assis, ²FCT-UNESP Campus de Presidente Prudente
- 11:00 Preparation of an alginate / ZnO-GO based hydrogel and evaluation of antimicrobial activity** P3.C.2
 Luiza Ribeiro Santana¹, Guilherme Kurz Maron¹, Oscar Giordani Paniz¹, Lucas da Silva Rodrigues¹, Evandro Piva¹, Neftalí Lenin Villarreal Carreño¹; ¹Universidade Federal de Pelotas
- 11:00 Nanoencapsulation of satietogenic trypsin inhibitor isolated from seeds of Tamarindus Indica (L.) in chitosan and isolated milk protein** P3.C.3
 Jaluza Luana Carvalho de Queiroz¹, Rafael Oliveira Costa², Lidia Leonize Rodrigues Matias¹, Amanda Fernandes de Medeiros², Ana Francisca Teixeira Gomes³, Tatiana dos Santos Pais³, Tháís Souza Passos³, Ana Heloneida de Araújo Morais¹; ¹Programa de Pós-graduação em Nutrição, ²Programa de Pós-Graduação em Bioquímica, ³Departamento de Nutrição UFRN
- 11:00 Antibody immobilization in Layer-by-Layer films using silk fibroin, chitosan and polyethyleneimine for immunosensor applications** P3.C.4
Marli Leite de Moraes¹, Elen Rute Lira Gomes¹, Anna Laura Yuri Yokomichi¹, Sidney José Lima Ribeiro², Elenice Deffune³; ¹Universidade Federal de São Paulo, ²Instituto de Química de Araraquara, ³Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:00 Study of protein adhesion in pure and doped TiO₂ nanoparticles with Mn, Co and V** P3.C.5
Ziani de Souza Schiaber¹, Marcilene Cristina Gomes², Andre Luis de Jesus Pereira^{1,3}, Eliene Silva Santos¹, Poliane da Silva Paixão Guerino¹, Yendry Corrales Urena⁴; ¹Fundação Universidade Federal da Grande Dourados, ²Instituto Federal de São Paulo, ³Faculdade de Ciências e Tecnologia, ⁴Laboratório Nacional de Nanotecnologia

- 11:00 Antimicrobial scaffolds based on regenerated cellulose@silver nanoparticles as potential tools for tissue engineering** P3.C.6
Thais Regina Bombarda¹, Rafael Miguel Sábio¹, Andréia Bagliotti Meneguim^{2,1}, Wilton Rogério Lustri¹, Robson Rosa da Silva³, Hernane da Silva Barud¹, Flávia Aparecida Resende¹; ¹Universidade de Araraquara, ²Universidade Federal do Piauí, ³Instituto de Física de São Carlos
- 11:00 Reduced graphene oxide-based field effect transistors and their use in biosensing** P3.C.7
Fabrício A. dos Santos¹, Nirton Cristi Silva Vieira², Naiara Zambianco³, Valtencir Zucolotto¹; ¹Instituto de Física de São Carlos, ²Universidade Federal de São Paulo, ³Universidade Federal de São Carlos
- 11:00 Synthesis of Pseudoboehmite-graphene oxide for drug delivery system** P3.C.8
Antônio Hortêncio Antonio¹, Marcos Romero Filho¹, Henrique de Arruda Kleist¹, Guilherme Dias Moreno¹, Mariana Oliva de Oliveira¹, Renato Meneghetti Peres¹, Maura Vincenza Rossi¹, Leila Figueiredo de Miranda¹, Bruno Filipe Carmelino Cardoso Sarmiento²; ¹Universidade Presbiteriana Mackenzie, ²i3S - Institute for Investigation and Innovation in Health
- 11:00 Chitosan and Magnetic Nanoparticles Nanocomposites Hydrogels** P3.C.9
Ana Paula Pais Mendes¹, Francisco Nunes de Souza Neto², Emerson Rodrigues Camargo¹; ¹Universidade Federal de São Carlos, ²Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:00 Dual stimuli-responsive N-phthaloylchitosan-g-poly(2-dimethyl amino)ethyl methacrylate) prepared via RAFT polymerization** P3.C.10
marli luiza tebaldi¹, Laura Fernandes¹, Desirée Rosangela Silva¹; ¹Universidade Federal de Itajubá
- 11:00 Strong near-infrared absorption and upconversion fluorescence in doped ZnO plasmonic nanoparticles** P3.C.11
Nathália Cristina Rissi¹, Bianca Martins Estevao^{2,1}, Valtencir Zucolotto¹; ¹Instituto de Física de São Carlos, ²Universidade de São Paulo
- 11:00 Growth of TiO₂ Nanotubular arrays on Ti-35Nb-xSn alloys for biomedical applications** P3.C.12
Alessandra Cremasco¹, Rodrigo José Contieri¹, Ricardo Floriano¹; ¹Faculdade de Ciências Aplicadas
- 11:00 Chondroitin sulfate microspheres containing natural hydroxyapatite nanostructures as agents for modifying Terbinafine delivery mechanism** P3.C.13
Thelma Sley Pacheco Cellet¹, Taiana Gabriela Moretti Bonadio², Guilherme Miranda Pereira¹, Roney Peterson Pereira¹, Adley Forti Rubira¹; ¹Universidade Estadual de Maringá, ²Universidade Estadual do Centro Oeste
- 11:00 A new drug delivery system based on peptide self-assembly for cancer treatment** P3.C.14
Geovany Albino de Souza¹, Tatiana Duque Martins¹; ¹Universidade Federal de Goiás
- 11:00 Development of bioceramics silicates for dental application** P3.C.15
Anderson Valério Chaves¹, Pierre Basílio Almeida Fachine¹, Bernardo Almeida Aguiar¹, Bruno Carvalho de Vasconcelos¹; ¹Universidade Federal do Ceará
- 11:00 A green and fast approach to produce electrospun fibers from poly (vinyl alcohol)/water-soluble graphene quantum dots: Platforms for biosensing** P3.C.16
Bruno Vinícius Manzolli Rodrigues¹, Tayna S Cabral², Livia F Sgobbi³, Jorge Augusto de Moura Delezuk⁴, Eduardo Rezende Triboni⁵, Thaisa M Brandão⁵, Rodrigo Sávio Pessoa⁶, Anderson Oliveira Lobo¹; ¹Instituto de Ciência e Tecnologia, Universidade Brasil, ²Universidade do Vale do Paraíba, ³Universidade Federal de Goiás, ⁴Instituto de Química de Araraquara, ⁵Universidade de São Paulo, ⁶Instituto Tecnológico de Aeronáutica

- 11:00 Azide-functionalization of melanin free pullulan for further use in click chemistry** P3.C.17
Layde Teixeira de Carvalho¹, Rodolfo Moraes¹, Ruly Hilares¹, Amilton Martins Santos¹, Simone Medeiros Sampaio Engenharia Química Medeiros Sampaio¹; ¹Universidade de São Paulo
- 11:00 Poly(N-vinylcaprolactam) thermosensitivity for enhanced dissolution and controlled ketoprofen release from spray-dried solid dispersions** P3.C.18
Julia Guimarães¹, Maria Inês Ré², Gizelda Maria Alves¹, Amilton Martins Santos¹, Simone Medeiros Sampaio Engenharia Química Medeiros Sampaio¹; ¹Universidade de São Paulo, ²Université de Toulouse
- 11:00 Corrosion evaluation of an optical fiber laser treated stainless steel for biomedical applications** P3.C.19
Eurico Felix Pieretti^{1,2}, Olandir Vercino Correa², Marina Fuser Pillis², MAURICIO MARTINES DAS NEVES²; ¹Universidade Federal do ABC, ²Instituto de Pesquisas Energéticas e Nucleares
- 11:00 Aminolevulinic acid (ALA) loaded poly (D, L-lactide-co-glycolide) (PLGA) nanoparticles for a better transdermal controlled delivery** P3.C.20
Geisiane Rosa da Silva¹, Amanda Luizetto dos Santos², Natalia Mayumi Inada¹; ¹Universidade de São Paulo, ²Nanomed - Inovação em Nanotecnologia
- 11:00 Electrochemical Characterization of a Welded Joint of Ni-Ti / Ti-Mo Dissimilar Wires.** P3.C.21
Josiane Dantas Costa¹, Mikarla Baía de Sousa¹, Nathália Cristina Morais Lia Fook¹, Arthur Filgueira de Almeida¹, José Jailson Nicácio Alves¹, Bianca de Oliveira Evaristo¹, Raissa Alves Queiroga¹, Antonio Aristófanes da Cruz Gomes¹, Carlos José de Araújo¹, Renato Alexandre Costa de Santana¹, Ana Regina Nascimento Campos¹; ¹Universidade Federal de Campina Grande
- 11:00 Resistance to corrosion evaluation on welded Ni-Ti wires for orthodontic usage** P3.C.22
Nathália Cristina Morais Lia Fook¹, Josiane Dantas Costa¹, Mikarla Baía de Sousa¹, Bianca de Oliveira Evaristo¹, Raissa Alves Queiroga¹, Arthur Filgueira de Almeida¹, Renato Alexandre Costa de Santana¹, Ana Regina Nascimento Campos¹, Carlos José de Araújo¹; ¹Universidade Federal de Campina Grande
- 11:00 Silk fibroin-Hydroxyapatite preparation from silk waste: effect of the acid hydrolysis of the fibroin on the biomaterial thermal and crystalline properties.** P3.C.23
Cinthia S Queiroz¹, Elder B Fontes¹, Angela Kinoshita^{1,2}, Beatriz Antoniassi¹, Marcia Rodrigues de Morais Chaves¹; ¹Universidade do Sagrado Coração, ²USC
- 11:00 Assessment of the performance of carboxymethyl-botryosphaeran for the development of a sensitive electrochemical platform for determining phenolic compounds** P3.C.24
Elen Romão Sartori¹, Ana Paula Pires Eisele¹, Camila Farinha Valezi¹, Tatiane Mazziero¹, Robert F.H. Dekker², Aneli de Melo Barbosa-Dekker¹; ¹Universidade Estadual de Londrina, ²Universidade Tecnológica Federal do Paraná
- 11:00 Obtaining and characterization of polymer nanofibers coated with photocrosslinkable material as potential for surgical filaments** P3.C.25
Francisca Pereira de Araújo¹, Conceição de Maria Vaz Elias², Edson Cavalcanti da Silva Filho¹, Anderson Oliveira Lobo^{1,3}, Josy Antevelli Osajima¹; ¹Universidade Federal do Piauí, ²Universidade Brasil, ³Instituto de Ciência e Tecnologia, Universidade Brasil
- 11:00 Surface plasmon resonance in doped ZnO nanoparticles** P3.C.26
Nathália Cristina Rissi¹, Bianca Martins Esteveo¹, Valtencir Zucolotto¹; ¹Instituto de Física de São Carlos

- 11:00 Antibacterial activity of silver tungstate coating on titanium surface** P3.C.27
Camila Cristina de Foggi¹, Luis Carlos Leal Santana², Marcelo Assis¹, Andressa Mayumi Kubo¹, Ariadne Cristina Catto¹, Luís Fernando da Silva¹, Carlos Eduardo Vergani², Juan Andrés³, Elson Longo¹; ¹Universidade Federal de São Carlos, ²Faculdade de Odontologia de Araraquara, ³Universitat Jaume I
- 11:00 Cytotoxicity of Chemically Modified Chitosan Derivative with Anhydride** P3.C.28
Elton Marks de Araujo Braz¹, Solranny Carla Cavalcante Costa e Universidade Federal¹, Maria Onaira Gonçalves Ferreira¹, Durcilene Alves da Silva¹, Josy Anteveli Osajima¹, Edson Cavalcanti da Silva Filho¹; ¹Universidade Federal do Piauí
- 11:00 Evaluation of yttria doped zirconia/hydroxyapatite compounds** P3.C.29
Camyla Regina D. Ferreira¹, Eduarda Medeiros de Araújo¹, Carlos Alberto Paskocimas¹, Fabiana Villela da Motta¹, Mauricio Bomio¹; ¹Universidade Federal do Rio Grande do Norte
- 11:00 Comparison of covalent and non-covalent methods of PEGylation of multi-walled carbon nanotubes for biological application** P3.C.30
Lívia Santos Gomides¹, Júlia Barros Gomes¹, Carla Onara Gonçalves¹, Gleuber Henrique Rocha¹, Clascídia A. Furtado¹, Rosemeire Brondi Alves², Adelina Pinheiro Santos¹; ¹Centro de Desenvolvimento da Tecnologia Nuclear, ²Universidade Federal de Minas Gerais
- 11:00 Film of whiskers of beta-chitin/ ZnO nanoparticles as a potential biomaterial for wound healing** P3.C.31
Cassio Luis Pires Lucato¹, Danilo Martins dos Santos¹, Filipe Habitzreuter^{2,1}, Sérgio Paulo Campana Filho¹; ¹Instituto de Química de São Carlos, ²Universidade de São Paulo
- 11:00 Porous chitosan / ceramics scaffolds for bone regeneration** P3.C.32
Filipe Habitzreuter^{1,2}, Sérgio Paulo Campana Filho²; ¹Universidade de São Paulo, ²Instituto de Química de São Carlos
- 11:00 Incorporation of Antineoplastic Drug to the Hydroxyapatite Matrix and Study of its Release in Saline Phosphate Buffer** P3.C.33
Amanda Alves Barbosa¹, Severino Alves Júnior¹, Andrea Vasconcelos Ferraz²; ¹Universidade Federal de Pernambuco, ²Fundação Universidade Federal do Vale do São Francisco
- 11:00 Development of Material with Multifunctional Properties based on Hydroxyapatite for Application in the Theranostic of Bone Cancer** P3.C.34
Amanda Alves Barbosa¹, Severino Alves Júnior¹, Andrea Vasconcelos Ferraz²; ¹Universidade Federal de Pernambuco, ²Fundação Universidade Federal do Vale do São Francisco
- 11:00 Influence of a strong polyelectrolyte on a system formed by silk fibroin and sodium alginate** P3.C.35
Daniela Dantas Quintana¹, Laise Maia Lopes¹, Marisa Masumi Beppu¹; ¹Universidade Estadual de Campinas
- 11:00 Synthesis of 3,6-O,O'-dimyristoylchitosan for encapsulation and release of hydrophobic anticancer drug** P3.C.36
Daniella Souza Silva¹, William Marcondes Facchinatto¹, Andreia Almeida², Luiz Alberto Colnago³, Sérgio Paulo Campana Filho¹, Bruno Filipe Carmelino Cardoso Sarmiento²; ¹Instituto de Química de São Carlos, ²Universidade do Porto, ³Empresa Brasileira de Pesquisa Agropecuária - Embrapa Instrumentação - CNPq

- 11:00 A Novel Electrochemical Aptasensor Based on Poly-xanthurenic acid/MWCNTs-COOH Modified Screen-Printed Carbon Electrode for Sensitive Aflatoxin B1 Detection** P3.C.37
Sarah Kelly Melo Cavalcante^{1,2}, Monik Tamires Silva Santos², Jessica da Conceição Silva², Marcelo Alisson de Oliveira Bernardes², Carlos Henrique Araújo de Oliveira², Jailson Santos Silva², Francisco Tenório de Albuquerque², Diogo Cezar Ferro Nascimento¹, Felipe Pereira Rodrigues¹, Eurípedes A.S. Filho¹, Marília Oliveira Fonseca Goulart¹, Phabyanno Rodrigues Lima^{1,2}; ¹Universidade Federal de Alagoas, ²Instituto Federal de Alagoas
- 11:00 Manufacturing and characterization of plates for fracture fixation of bone with biocomposites of poly (LACTIC ACID-CO-GLYCOLIC ACID) (PLGA) with bioceramics of calcium phosphates** P3.C.38
Thaiane Balestreri Knopf¹, Águedo Aragones¹, Claudia Merlini¹, Marcio Celso Fredel¹; ¹Universidade Federal de Santa Catarina
- 11:00 BSA nanoparticles loaded with chloroaluminum phthalocyanine for photodynamic therapy application** P3.C.39
 Alexandro Silva Abreu¹, Agnes Cecheto Trindade¹, Janicy Arantes Carvalho¹, Milton Beltrame Junior¹, Andreza Ribeiro Simioni¹; ¹Universidade do Vale do Paraíba
- 11:00 Layer-by-Layer gelatin nanoparticles loaded with chloroaluminum phthalocyanine for photodynamic therapy application** P3.C.40
 Janicy Arantes Carvalho¹, Alexandro Silva Abreu¹, Milton Beltrame Junior¹, Andreza Ribeiro Simioni¹; ¹Universidade do Vale do Paraíba
- 11:00 Green fluorescence pyrene-based dye immobilized on magnetic core-shell nanoparticles: characterization, study of the properties and potential applications** P3.C.41
Bruna Martins de França¹, Emerson Schwingel Ribeiro¹, Josué Sebastián Bello Forero¹, Rafael Alves Allão Cassaro¹, Rodrigo José Corrêa¹; ¹Universidade Federal do Rio de Janeiro
- 11:00 Influence of microstructured barriers on physical properties of biopolymer based thin films** P3.C.42
João Batista Maia Rocha Neto¹, Luiz Guilherme Lomônaco Germiniani¹, Gabriel Augusto Teixeira da Silveira¹, Laise Maia Lopes¹, Rogério Aparecido Bataglioli¹, Thiago Bezerra Taketa¹, Marisa Masumi Beppu¹; ¹Universidade Estadual de Campinas
- 11:00 Synthesis of titanium dioxide nanoparticles by Pechini method: Characteristics and morphology** P3.C.43
Michel Augusto Michelotti¹, Victor Ramos¹, Marcia Rodrigues de Moraes Chaves¹, Angela Kinoshita^{1,2}; ¹Universidade do Sagrado Coração, ²USC
- 11:00 Probing nanobiointerfaces: dynamics, structure and binding ratio of plasma proteins adsorbed onto polymeric micelles and polymersomes** P3.C.44
Fernando Augusto de Oliveira¹, Lindomar Jose Calumby Albuquerque¹, Carlos Eduardo de Castro¹, Fernando Carlos Giacomelli¹; ¹Universidade Federal do ABC
- 11:00 Titanium Dioxide micromotors - Applied to remove of emerging contaminants** P3.C.45
Leonardo Marchiori¹, Jorge Augusto de Moura Delezuk², Sidney José Lima Ribeiro¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Instituto Federal do Paraná, Campus Irati
- 11:00 Langmuir films as nanomaterials to study the interaction of alpha-terpineol with cell membranes models** P3.C.46
Guilherme Nunez Jaroque¹, Patrícia Sartorelli¹, Luciano Caseli¹; ¹Universidade Federal de São Paulo

- 11:00 Core-shell hybrid nanomaterials for the detection of dengue virus** P3.C.47
Caroline Rodrigues Basso¹, João Paulo Ruiz Lucio de Lima Parra¹, Bruno Pereira Crulhas¹, Valber Albuquerque Pedrosa¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:00 The biosensing behavior of a metal oxide for pancreatic cancer** P3.C.48
Iram Taj Awan¹, Andrey Coatrini Soares¹, Niravkumar Jitendrabhai Joshi¹, Matias Eliseo Melendez², André Lopes Carvalho², Rui Manuel Reis², José Humberto Tavares Guerreiro Fregnani², Osvaldo Novais de Oliveira Jr¹; ¹Instituto de Física de São Carlos, ²Hospital de Câncer de Barretos
- 11:00 Dapsone/phospholipid interactions with liposomes and Langmuir monolayers** P3.C.49
Vananélia Pereira Nunes Geraldo¹, Osvaldo Novais de Oliveira Jr¹; ¹Instituto de Física de São Carlos
- 11:00 Antimicrobial activity of nano-sized silver colloids stabilized by nitrogen-containing polymers: the key influence of the polymer capping** P3.C.50
Carin Cristina da Silva Batista¹, Lindomar José Calumby Albuquerque¹, Iris de Araújo¹, Fernanda Dias da Silva¹, Fernando Carlos Giacomelli¹; ¹Universidade Federal do ABC
- 11:00 Nanovesicles with high antioxidant and UVB protective activities made by unique biomaterials from halophilic archaeobacteria** P3.C.51
Gustavo Alberto Apezteguia¹, Eder Romero¹, María José Morilla¹; ¹Nanomedicine Research
- 11:00 Ti-Mo alloy for dental and orthopedic applications irradiated by laser beam and coating by calcium phosphates of interest biological applied Sol-Gel and biomimetic methods** P3.C.52
Edson Almeida Filho¹, Beatriz Ambrozini¹, Márcio Luiz dos Santos², Carla dos Santos Riccardi³, Antonio Carlos Guastaldi⁴; ¹Instituto de Química de Araraquara, ²Universidade Federal do ABC, ³Universidades Estadual Paulista Júlio de Mesquita, ⁴Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:00 Nanoencapsulation of polyphenols extracted from wine byproduct for use as post harvesting active coating** P3.C.53
Dirliane Santos Duarte¹, Jose Augusto Almeida Nascimento², Douglas Britto³; ¹Instituto Federal de Educação, Ciência e Tecnologia, ²Universidade Federal de Pernambuco, ³Embrapa Seminário Petrolina - PE
- 11:00 Determination of the kinetic parameters of nanoencapsulated vitamin C extracted from acerola byproduct under different storage conditions** P3.C.54
Jose Augusto Almeida Nascimento¹, Dirliane Santos Duarte², Maria Naiane Cavalcanti Rodrigues², Maria Auxiliadora Coêlho de Lima³, Douglas Britto³, Glória Maria Vinhas⁴; ¹Universidade Federal de Pernambuco, ²Instituto Federal de Educação, Ciência e Tecnologia de Pernambuco, ³Fundação Universidade Federal do Vale do São Francisco, ⁴Centro de Tecnologia e Geociências, Departamento de Engenharia Química-DEQ, Universidade Federal de Pernambuco
- 11:00 Development and photophysical characterization of polymeric nanocapsules to drug release of red dye from biotechnological production** P3.C.55
Camila Amantino¹, Luciana Guimarães Munhoz¹, Antonio Claudio Tedesco², Álvaro Baptista-Neto¹, Alberto Colli Badino³, Fernando Lucas Primo¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade de São Paulo, ³Universidade Federal de São Carlos
- 11:00 Development of polymeric nanoemulsions containing Methylene Blue from different vegetable oils from biotechnological origin** P3.C.56
Stéphanie Rochetti do Amaral¹, Camila Amantino¹, Ariela Veloso de Paula¹, Fernando Lucas Primo¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

- 11:00 Study of the interaction between carbon nanotubes (CNT) and polyethylene glycol modified with pyrene in water-based salt solution** P3.C.57
Júlia Barros Gomes¹, Lívia Santos Gomides¹, Clascídia A. Furtado¹, Adelina Pinheiro Santos¹; ¹Centro de Desenvolvimento da Tecnologia Nuclear
- 11:00 Efficient immobilization and detection of nucleic acids on gold nanoparticles thin films** P3.C.58
 Graciela da Costa Pedro¹, Filipe Dione Souza Gorza¹, Edson Reis¹, Juan Carlos Medina Llamas², Alicia Elizabeth Chávez Guajardo³, José Jarib Alcaraz Espinoza¹, Celso Pinto de Melo¹; ¹Universidade Federal de Pernambuco, ²Instituto Politécnico Nacional, ³Universidad Autónoma de Zacatecas
- 11:00 The effect of charge of liposomes on the encapsulation efficiency of insulin for potential nasal delivery** P3.C.59
 Eliete de Souza Von Zuben¹, Josimar Oliveira Eloy¹, Maria Palmira Daflon Gremião¹, Marlus Chorilli¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:00 Electrochemical characterization of a modified carbon paste electrode containing gold nanoparticles and/or gold electrodeposited on carbon powder: perspectives to biosensor application** P3.C.60
Maria Luiza Lopes Sierra e Silva¹, Arthur Martins Gabriel¹, Cristina Ferreira de Sousa¹, Gildiberto Mendonça de Oliveira¹, Tatiane Moraes Arantes¹; ¹Universidade Federal de Jataí
- 11:00 Tissue reaction and antibiofilm action of new biomaterial composed of latex from *Harconia speciosa* Gomes and silver nanoparticles** P3.C.61
 Jésscia Mariana Bonete¹, Guilherme Donizeti Silva¹, Éder José Guidelli², Pablo José Gonçalves³, Luciana Madureira Almeida⁴, Oswaldo Baffa², Angela Kinoshita^{1,5}; ¹Universidade do Sagrado Coração, ²Universidade de São Paulo, ³Universidade Federal de Goiás, ⁴Universidade Estadual de Goiás, ⁵USC
- 11:00 New Intracanal Medication based on Calcium Hydroxide and Silver Nanoparticles** P3.C.62
 Marina Rolon¹, Guilherme Donizeti Silva¹, Bruno Martini Guimarães², Rodrigo Ricci Vivan³, Rafael Francisco Mondelli³, Angela Kinoshita^{1,4}; ¹Universidade do Sagrado Coração, ²Instituto Nacional de Ensino Superior e Pós-Graduação Padre Gervásio, ³Universidade de São Paulo, ⁴USC
- 11:00 Deposition and characterization of hydroxyapatite coatings with incorporation of graphene oxide** P3.C.63
 Daniel Nilson Nunes Nicomedes¹, Laureana Moreira Mota¹, Ana Carolina Ferreira de Brito¹, Ana Paula Moreira Barboza¹, Jaqueline dos Santos Soares¹, Rebecca Vasconcellos², Nathanael Vieira Medrado², Érika Costa de Alvarenga³, Giovanna Machado⁴, Ronaldo Junio Campos Batista¹, Taise Matte Manhobosco¹; ¹Universidade Federal de Ouro Preto, ²Universidade Federal de Minas Gerais, ³Universidade Federal de São João Del Rei, ⁴Centro de Tecnologias Estratégicas do Nordeste
- 11:00 Deposition and characterization of hydroxyapatite coatings with incorporation of talc** P3.C.64
 Laureana Moreira Mota¹, Daniel Nilson Nunes Nicomedes¹, Ana Carolina Ferreira de Brito¹, Ana Paula Moreira Barboza¹, Jaqueline dos Santos Soares¹, Rebecca Vasconcellos², Nathanael Vieira Medrado², Érika Costa de Alvarenga³, Giovanna Machado⁴, Taise Matte Manhobosco¹; ¹Universidade Federal de Ouro Preto, ²Universidade Federal de Minas Gerais, ³Universidade Federal de São João Del Rei, ⁴Centro de Tecnologias Estratégicas do Nordeste
- 11:00 Synthesis and characterization of pigmented ceramics for dental applications** P3.C.65
Naasson Matheus Pereira Balica¹, Themistocles de Sousa Campelo¹, Maria Rita de Moraes Chaves Santos¹, Edson Cavalcanti da Silva Filho¹, Rafaela Luiz Pereira Santos¹; ¹Universidade Federal do Piauí

- 11:00 Use of intrinsically conductive polymer bilayer films for the fluorescence-based molecular diagnosis of the Zika virus** P3.C.66
Kamila Teresa Oliveira do Nascimento¹, Graciela da Costa Pedro¹, Gabriela Plautz Ratkovski¹, Filipe Dione Souza Gorza¹, Romário Justino da Silva¹, Bruna Gomes Maciel¹, Celso Pinto de Melo¹; ¹Universidade Federal de Pernambuco
- 11:00 Optimization of polymeric film using cobaltphthalocyanine and carbon nanotubes for application in biosensors** P3.C.67
Victor Macedo Bezerra¹, Paula Angélica Burgos Ferreira², Cecília Maciel Prado², Rosa Fireman Dutra²; ¹Universidade de Pernambuco, ²Universidade Federal de Pernambuco
- 11:00 Acetylated Collagen for Processing using scCO₂** P3.C.68
Amanda Karoline Ribeiro de Sá¹, Alessandra Lopes de Oliveira², Ligia Passos Maia¹; ¹Universidade Federal do ABC, ²Universidade de São Paulo
- 11:00 InP Nanowire Arrays Applied to Optical Measurement of Bacterial Adhesion Forces** P3.C.69
Aldeliane Maria da Silva¹, Prasana Sahoo¹, Alessandro Cavalli², Alessandra Souza³, Erik Bakkers², Carlos Lenz Cesar¹, Richard Janissen⁴, Monica Alonso Cotta¹; ¹Universidade Estadual de Campinas, ²Eindhoven University of Technology / Technische Universiteit Eindhoven, ³Centro APTA Citros Sylvio Moreira, Instituto Agrônômico de Campinas, ⁴Delft University of Technology TU Delft
- 11:00 Synthesis and Modification of the Surface of Copper Nanoparticles.** P3.C.70
Nathali Ricardo Lima¹, Fernando Gomes Souza Júnior¹, Carlos Augusto Souto¹, Lucas Santos Teixeira², Nathalia Domingos Silva², Breno Assunção Brito²; ¹Instituto de Macromoléculas Professora Eloisa Mano, ²Instituto Federal de Educação, Ciência e Tecnologia do Rio de Janeiro
- 11:00 Topical vaccination with novel imiquimod ultradeformable nanovesicles** P3.C.71
Ayelen Tatiana Caimi^{1,2}, Marcelo Alexandre Farias³, Rodrigo Villares Portugal³, Ana Paula Perez^{1,2}, Eder Romero^{1,2}, María José Morilla^{1,2}; ¹Universidad Nacional de Quilmes, ²Nanomedicine Research, ³Brazilian Nanotechnology National Laboratory
- 11:00 Chitosan for cell delivery vehicle** P3.C.72
Pedro Augusto Izidoro Pereira¹, Juliana Tarocco¹, Eduardo Santos Trevisan¹, Cintia Cristina Santi Martignago², Livia Assis^{1,3}, Carla Roberta Tim³; ¹Universidade Brasil, ²Universidade Federal de São Carlos, ³Instituto de Ciência e Tecnologia, Universidade Brasil
- 11:00 Molecular Dynamics Simulations of Pharmaceutical Drugs Interaction with Cell Membrane Models Represented by Langmuir Monolayers** P3.C.73
Jhon James Hernández Sarria¹, JORGE RICARDO MEJIA SALAZAR¹, Osvaldo Novais de Oliveira Jr¹; ¹IFSC, USP, SAO PAULO
- 11:00 Beta-type titanium alloy for biomedical application developed by powder metallurgy** P3.C.74
Raíssa Monteiro Pereira¹, Vinicius Rodrigues Henriques²; ¹Instituto Tecnológico de Aeronáutica, ²Instituto de Aeronáutica e Espaço
- 11:00 Synthesis and characterization of nanoreactors to incorporation of hydrofilyc molecules** P3.C.75
Cláudia Santos Salim¹, Beatriz Steckelberg Watanabe¹, Luís Gustavo Ferroni Pereira¹, Fábio Herbst Florenzano¹; ¹Universidade de São Paulo
- 11:00 Experimental Liquid-Vapor Equilibria for the System {CO₂ + Dichloromethane + Medroxyprogesterone}** P3.C.76
Willyan Machado Giufrida¹, Marcela Prado Silva Parizi², Andreia Fatima Zanette², Leandro Ferreira Pinto², Lúcio Cardozzo Filho¹; ¹Universidade Estadual de Maringá, ²Universidade Estadual Paulista Júlio de Mesquita Filho

- 11:00 Study of MgAl and ZnAl LDHs as potential materials for biomedical applications** P3.C.77
Natasha Fioretto Aguero¹, Alysson Ferreira Morais¹, Ivan Guide Nunes da Silva¹, Danilo Mustafa¹; ¹Instituto de Física, Universidade de São Paulo
- 11:00 Effect of Emerging Pollutants on Biomembrane Models Based on Langmuir Films** P3.C.78
 Mateus Dassie Maximino¹, Carlos José Leopoldo Constantino¹, Priscila Alessio¹; ¹FCT-UNESP Campus de Presidente Prudente
- 11:00 The effect of chondroitin sulfate and collagen type II on DPPG Langmuir films** P3.C.79
Lucinéia Ferreira Ceridório¹, Osvaldo Novais de Oliveira Jr², Luciano Caseli¹; ¹Universidade Federal de São Paulo, ²Instituto de Física de São Carlos
- 11:00 Heterogeneous photocatalysis using TiO₂ in suspension applied to antioxidant activity assays** P3.C.80
Anallyne Nayara Carvalho Oliveira Cambrussi¹, Alan Ícaro Sousa Morais¹, Luis Rodrigues de Sena Neto¹, Edson Cavalcanti da Silva Filho¹, Josy Antevéli Osajima¹, Alessandra Braga Ribeiro¹; ¹Universidade Federal do Piauí
- 11:00 Titanium prosthesis use as Biomaterial and verification of biomechanics** P3.C.81
Edivaldo Feitosa Filho¹, Valdivânia Albuquerque do Nascimento¹; ¹Universidade Federal do Piauí
- 11:00 Low-cost disposable screen-printed carbon based electrochemical cell for detection of antineoplastic drug 5-Fluorouracil** P3.C.82
 Elsa Maria Materón^{1,2}, Gustavo Freitas do Nascimento², Gisela Ibañez Redin², Thaisa A. Baldo¹, Tayane A. Freitas³, Camila A Proença³, Osvaldo Novais de Oliveira Jr², Ronaldo Censi Faria³; ¹Universidade Federal de São Carlos, ²Instituto de Física de São Carlos, ³Federal University of Sao Carlos
- 11:00 Study of lipid rafts through the interactions between chitosan and membrane models** P3.C.83
Andressa Ribeiro Pereira¹, Osvaldo Novais de Oliveira Jr¹; ¹Instituto de Física de São Carlos
- 11:00 Use of carbonaceous material associated with nano-silver particles in bone repair with infection control** P3.C.84
Patricia Almeida Mattos¹, Rodrigo Labat-Marcos², Arthur Da Rocha Albertini¹, Paulo Henrique Boulitreau Assirati², Marília Lucas Del Bel², Renato Araújo Prates², Gisele Aparecida Amaral-Labat¹, Guilherme Frederico Bernardo Lenz e Silva¹; ¹Escola Politécnica de Universidade de São Paulo, ²Universidade Nove de Julho
- 11:00 Synthesis and characterization of green Nanohydroxyapatite (nHAP) from hen eggshell by the precipitation method** P3.C.85
Marla Karolyne dos Santos Horta¹, Marilza Sampaio Aguilar², Francisco José Moura¹, José Brant Campos³, Vitor Santos Ramos³, Adilson Cláudio Quizunda³; ¹Pontifícia Universidade Católica do Rio de Janeiro, ²Universidade Estácio de Sá, ³Universidade do Estado do Rio de Janeiro
- 11:00 Evaluation of surface charge of magnetite composites based on chitosan and poly (sodium 4-styrenesulfonate)** P3.C.86
Elvis Lopes Brito¹, Danyelli Nascimento Gomes¹, Letícia Streck¹, Felipe Bohn¹, José Luís Cardozo Fonseca¹; ¹Universidade Federal do Rio Grande do Norte
- 11:00 Chitosan gold nanoparticles supported on mesoporous silica/titania for simultaneous electrochemical determination of norepinephrine and dopamine** P3.C.87
Franciele de Matos Morawski¹, Brenda Borges Xavier¹, Eliana Weber de Menezes¹, Edilson Valmir Benvenutti¹, Tania Maria Haas Costa¹, Leliz Ticona Arenas¹; ¹Universidade Federal do Rio Grande do Sul

- 11:00 Study of the surface structure of SrTiO₃(100) for health application by means of LEED, XPD and XPS** **P3.C.88**
Jenifer Jalowitzki Silva¹, Alexandre Pancotti¹, Abner de Siervo², Luis Henrique de Lima²; ¹Universidade Federal de Goiás, ²Universidade Estadual de Campinas
- 11:00 Use of Polymeric Scaffolds for Bone Growth** **P3.C.89**
Hitalo de Jesus Bezerra da Silva¹, Valdivânia Albuquerque do Nascimento¹, Moisés das Virgens Santana¹, João Batista de Oliveira Libório Dourado¹; ¹Universidade Federal do Piauí
- 11:00 Distance Learning in the Theme Nanoscience, Nanotechnology and Nanomateriais applied to Health Area: Perspectives of EaD usage** **P3.C.90**
 Jackeline Neres Bellucci¹, Felipe Silva Bellucci^{2,3}, Elioenai Dornelles Alves¹, Gilberto Lacerda Santos¹; ¹Universidade de Brasília, ²Faculdade de Engenharia de Ilha Solteira - UNESP, ³Ministério da Ciência, Tecnologia, Inovação e Comunicações
- 11:00 Use of Hydroxyapatite with Silver Nanoparticle for Antibactericidal Activity** **P3.C.91**
Moisés das Virgens Santana¹, Valdivânia Albuquerque do Nascimento¹, Hitalo de Jesus Bezerra da Silva¹, João Batista de Oliveira Libório Dourado¹; ¹Universidade Federal do Piauí
- 11:00 Controlled Synthesis of ZnSe Quantum Dots Using A Microfluidic Reactor** **P3.C.92**
Eder Jose Guidelli¹, Oswaldo Baffa¹, Klavs Jensen²; ¹Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto - USP, ²Massachusetts Institute of Technology
- 11:00 Films obtained from chitosan, kefir and Chia (*Salvia hispanica* L.)** **P3.C.93**
Nicolle Luz Martins Rocha¹, Monalisa de Alencar Lucena¹, Camila dos Reis Oliveira¹, francisco lopes da silva filho¹, igor frederico ramos¹, Edson Cavalcanti da Silva Filho¹, Alessandra Braga Ribeiro¹; ¹Universidade Federal do Piauí
- 11:00 Prospective study on conductive biopolymer film for application in sensors** **P3.C.94**
Glenda Araújo Portela¹; ¹Universidade Federal do Piauí
- 11:00 Incorporation of aptamers in mixed LB films between lipids and graphene oxide sheets.** **P3.C.95**
Jefferson Muniz Rocha¹, Serguey Balashov¹, Aristides Pavani Filho¹; ¹Center for Information Technology Renato Archer
- 11:00 Development of an Electrochemical Sensor Based a Hemin-Molecularly Imprinted Polymer (MIP) and MWCNT Grafted onto a Glassy Carbon Electrode for Detection of Captopril** **P3.C.96**
Diogo Cezar Ferro do Nascimento¹, Felipe Pereira Rodrigues¹, Walker de Lima Cordeiro¹, Mayrane Carla Marques do Nascimento¹, Jessica da Conceição da Silva², Monik Tamires Silva Santos¹, Marcelo Alisson de Oliveira Bernardes², Carlos Henrique Araújo de Oliveira², Jailson dos Santos Silva², Sarah Kelly Melo Cavalcante², Cleylton Bezerra Lopes², Wilney de Jesus Rodrigues dos Santos², Antônio Albuquerque de Souza², Marília Oliveira Fonseca Goulart¹, Phabyanno Rodrigues Lima³; ¹Universidade Federal de Alagoas, ²Instituto Federal de Alagoas, ³Instituto Federal de Educação, Ciência e Tecnologia de Alagoas
- 11:00 Development of a Novel Microfluidic (paper) Colorimetric Sensor Based 4,8-dihidroxiquinoline-2-carboxylic acid for Detection of Fe²⁺** **P3.C.97**
Carlos Henrique Araújo de Oliveira¹, Jessica da Conceição Silva¹, Monik Tamires Silva Santos¹, Sara Souza Pereira¹, Mayrane Carla Marques do Nascimento², Herbert Filipe dos Santos Silva¹, Jailson dos Santos Silva¹, Francisco Tenório de Albuquerque¹, Felipe Pereira Rodrigues², Diogo Cezar Ferro do Nascimento², Cleylton Bezerra Lopes¹, Antônio Albuquerque de Souza¹, Sarah Kelly Melo Cavalcante¹, Marília Oliveira Fonseca Goulart², Phabyanno Rodrigues Lima³; ¹Instituto Federal de Alagoas, ²Universidade Federal de Alagoas, ³Instituto Federal de Educação, Ciência e Tecnologia de Alagoas

SESSION C. 03 (14:00 - 16:15) - Room Cedro

- 14:00 Development and Applications of Chitosan-based Functional Materials: Advances at the Macromolecular Materials and Lignocellulosic Fibers Group** C.O3.1*
Sergio Paulo Campana-Filho¹, Bruno Filipe Carmelino Cardoso Sarmiento², Elisabete Frollini¹, Danilo Martins dos Santos¹, Andrea de Lacerda Bukzem¹, Rachel Passos de Oliveira Santos¹, Ilaiáli Souza Leite³, Natalia Mayumi Inada³, Andreia Almeida², Fabíola G. Prezotti⁴, William Marcondes Facchinatto¹, Luiz Alberto Colnago⁵; ¹Instituto de Química de São Carlos, ²Universidade do Porto, ³Instituto de Física de São Carlos, ⁴Faculdade de Farmácia UNESP, ⁵Empresa Brasileira de Pesquisa Agropecuária - Embrapa Instrumentação - CNPq
- 14:30 Chitosan/hyaluronan coatings tailored for tumor cell adhesion: influence of the topography and surface chemistry** C.O3.2
João Batista Maia Rocha Neto¹, Thiago Bezerra Taketa¹, Silvia Borges Pimentel¹, Hernandes Faustino de Carvalho¹, Marisa Masumi Beppu¹; ¹Universidade Estadual de Campinas
- 14:45 Layer-by-layer films of sodium alginate and aloin for drug delivery in temporary tattoos** C.O3.3
Cristiane Margarete Daikuzono¹, Osvaldo Novais de Oliveira Jr², Walter Ruggeri Waldman¹, Marystela Ferreira¹; ¹Universidade Federal de São Carlos, ²IFSC, USP, SAO PAULO
- 15:00 Shape-dependent effect of gold nanoparticles in mitochondrial integrity** C.O3.4
Ábner Magalhães Nunes¹, Kleyton Ritomar Monteiro da Silva¹, Claudia Manuela Santos Calado¹, Reginaldo Correia da Silva Filho¹, Ana Catarina Rezende Leite¹, Mario Roberto Meneghetti¹; ¹Universidade Federal de Alagoas

WEDNESDAY, SEPTEMBER 19

Oral presentations

* Invited Lecture

SESSION C. 01 (09:30 - 10:30) - Room Cedro

- 09:30 nanostructured surface coatings for titanium alloy implants** C.O1.1*
Guy LOUARN¹, Laetitia SALOU², Pierre LAYROLLE²; ¹Institut des Matériaux de NANTES, ²Faculty of Medicine, Nantes
- 10:00 PMMA-TiO₂ and PMMA-ZrO₂ coatings modified with hydroxyapatite and β -TCP for Ti6Al4V metallic implants** C.O1.2
Samarah Vargas Harb¹, Thiago A. C. de Souza¹, Andressa Trentin¹, Nicole Bassous², Anderson Oliveira Lobo^{3,4}, Sandra Helena Pulcinelli¹, Celso Valentim Santilli¹, Thomas J. Webster², Peter Hammer¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Northeastern University, ³Universidade Federal do Piauí, ⁴Universidade Brasil

- 10:15 Development of zirconia nanocoatings in NiTi alloys intended for biomedical applications** **C.O1.3**
Natalia Isabel de Azevedo Lopes¹, Pedro Damas Resende¹, Leandro de Arruda Santos¹, Vicente Tadeu Lopes Buono¹; ¹Universidade Federal de Minas Gerais

SESSION C. 02 (11:00 - 12:00) - Room Cedro

- 11:00 Surface treatment of zirconia and porcelain substructures for production of dental copings** **C.O2.1**
Rafaela Luiz Pereira Santos¹, Rubens Maribondo do Nascimento², Filipe Samuel Silva³, Bruno Alexandre Henriques⁴; ¹Universidade Federal do Piauí, ²Universidade Federal do Rio Grande do Norte, ³Universidade do Minho, ⁴Universidade Federal de Santa Catarina
- 11:15 Cell viability of nanoporous TiO₂ produced by anodic oxidation** **C.O2.2**
Elisa Marchezini Rodrigues¹, Ana Paula dos Reis Weitzel¹, Victoria Lopes Abdo¹, Wesley Natan Caribé Junqueira Venturoli¹, Tatiane Cristine Silva de Almeida¹, Maximiliano Delany Martins¹; ¹Centro de Desenvolvimento da Tecnologia Nuclear
- 11:30 Atomic layer deposition of titanium dioxide thin films on polymeric materials for medical-hospital applications** **C.O2.3**
Rodrigo Sávio Pessoa^{1,2}, Mariana Amorim Fraga², Bruno Vinícius Manzolli Rodrigues², Anelise C.O.C. Doria³, Anderson de Oliveira Lobo², Fernanda Roberta Marciano², Homero Santiago Maciel¹; ¹Instituto Tecnológico de Aeronáutica, ²Universidade Brasil, ³Universidade do Vale do Paraíba
- 11:45 Electrochemical synthesis of mixed nanostructured Titanium Dioxide (TiO₂) – Hydroxyapatite (HA)** **C.O2.4**
Rhauane Almeida Galvão^{1,2}, Giovanna Machado², Isabel Renata de Souza Arruda²; ¹Universidade Federal de Pernambuco, ²Centro de Tecnologias Estratégicas do Nordeste

Poster presentations

SESSION P5 (11:00 - 12:30)

- 11:00 Photodynamic Therapy of Oropharyngeal Carcinoma Cells Mediated by Erythrosin B** **P5.C.40**
 Maria Julia Bistaffa¹, Karina Alves Toledo¹, Mirella Boaro Kobal¹, Priscila Silva Sampaio Souza¹, Pedro Henrique Benites Aoki¹; ¹FCL-UNESP Campus de Assis
- 11:00 Effects of the mixture of pollutants over phosphatidylcholine vesicles** **P5.C.41**
 Mateus Dassie Maximino¹, Carlos José Leopoldo Constantino¹, Priscila Alessio Constantino¹; ¹FCT-UNESP Campus de Presidente Prudente
- 11:00 Amoxicillin as an emerging pollutant: its effects on membrane models with different compositions** **P5.C.42**
 Henry Seitiro Kavazoi¹, Priscila Alessio Constantino¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:00 Nanoencapsulation of extract rich in carotenoids from Cantaloupe melon in porcine gelatin** **P5.C.43**
 Anny Karoliny Medeiros¹, Camila de Carvalho Gomes², Mary Querino Amaral³, Isaiane Medeiros¹, Luciana Gurgel de Medeiros³, Ana Heloneida de Araújo Moraes¹, Thaís Souza Passos³; ¹Programa de Pós-graduação em Nutrição, ²Programa de Pós-Graduação em Bioquímica, ³Departamento de Nutrição UFRN

- 11:00 Synthesis and characterizaion of magnetite surfacted with Azadiractha Indica oil** P5.C.44
Jorge Luis Lopez Aguilar¹, Luiz Orlando Ladeira², Roberto Magalhães Paniago², Jose Higino Dias Filho³; ¹Universidade Federal do Acre, ²Universidade Federal de Minas Gerais, ³Universidade Estadual de Montes Claros
- 11:00 Surfactant based on vegetable oil for the synthesis of gold nanorods** P5.C.45
Jorge Luis Lopez Aguilar¹, Luiz Orlando Ladeira², Claudilene Ribeiro Chaves³, Anna Carolina Pinheiro Lage²; ¹Universidade Federal do Acre, ²Universidade Federal de Minas Gerais, ³Universidade Federal da Bahia
- 11:00 Mössbauer studies of CoFe₂O₄ nanoparticles based magnetic fluid functionalized with mauritia flexuosa oil** P5.C.46
Jose Higino Dias Filho¹, Jorge Luis Lopez Aguilar², Roberto Magalhães Paniago³, Kátia Ferreira Guimarães Benfica¹, Ernando Campos Ferreira¹; ¹Universidade Estadual de Montes Claros, ²Universidade Federal do Acre, ³Universidade Federal de Minas Gerais
- 11:00 Synthesis of hollow and magnetic nanoparticles of MnFe₂O₄.** P5.C.47
Sandra de Cássia Pereira¹, Amanda das Graças Barbosa¹, Cristiano Morita Barrado¹, Alberthmeiry Teixeira de Figueiredo¹; ¹Universidade Federal de Goiás
- 11:00 Evaluation of the cytotoxicity of CVD nanodiamonds in B16f10 cells for treatment of melanoma** P5.C.48
Cristiane da Costa Wachesk¹, Carolina Ramos Hurtado¹, Denise C Arruda², Rebeca Falcão Correia¹, João Paulo Barros Machado³, Vladimir Jesus Trava-Airoldi⁴, Dayane Batista Tada¹; ¹Universidade Federal de São Paulo, ²Universidade de Mogi das Cruzes, ³National Institute for Space Research, ⁴Instituto Nacional de Pesquisas Espaciais
- 11:00 Characterization of dosimeters for beta radiation beams in terms of the personal dose equivalent** P5.C.49
Emiliane Advíncula Malheiros¹, Roberto Paulo Barbosa Ramos¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Pará
- 11:00 Synthesis, characterization and evaluation of the photolytic activity of nanocapsules of carboxymethylchitosan and imidazolium ionic liquids.** P5.C.50
Patrícia Regina Ebani¹, Darcosn Vieira¹, Clarissa Piccinin Frizzo¹, LUIZA Stefanello¹, Mariana Viana Costa¹, Bruna Kuhn¹, Carmen Luisa Kloster¹, Marcos Antonio Villetti¹; ¹Universidade Federal de Santa Maria
- 11:00 Evaluation of the complex formation between sodium alginate and ionic liquids [C₁₀mim][Br] and [C₁₆mim][Br]** P5.C.51
Marcos Antonio Villetti¹, Darcosn Vieira¹, Patrícia Regina Ebani¹, Clarissa Piccinin Frizzo¹, Carmen Luisa Kloster¹, Mariana Viana Costa¹; ¹Universidade Federal de Santa Maria
- 11:00 Scale up of Bi₂S₃ nanoparticles synthesis and in vitro studies for radiosensitizing applications** P5.C.52
Isabel Galain¹, María Eugenia Pérez Barthaburu¹, Ivana Aguiar¹, Emilia Tejeria¹, María Elena Cardoso¹, Mariella Terán¹; ¹Universidad de la República
- 11:00 Mesoporous silica nanoparticles and carbon nanotubes with dual targeting against pancreatic ductal carcinoma: a comparative study.** P5.C.53
Bianca Martins Estevao^{1,2}, Nathália Cristina Rissi², Edson José Comparetti², Juliana Cancino Bernardi², Valtencir Zucolotto²; ¹Universidade de São Paulo, ²Instituto de Física de São Carlos
- 11:00 Improved drug loading and efficacy of PLGA microparticles used for single-dose treatment of cutaneous leishmaniasis** P5.C.54
Ariane Jesus Sousa-Batista¹, Maria Inês Ré², Bartira Rossi Bergmann¹; ¹Universidade Federal do Rio de Janeiro, ²École Des Mines D'Albi-Carmaux

- 11:00 Oxidized bacterial cellulose loaded with strontium apatite membranes as reabsorbable bioactive matrixes** **P5.C.55**
ERIKA PATRICIA CHAGAS GOMES LUZ¹, Mateus Costa Leal¹, Erica Gabrielle Capistrano Lins¹, Lidia Araújo Pinto Vieira¹, Paulo Hiago Silva Chaves², Maria de Fátima Borges³, Fábila Karine Andrade^{1,3}, Rodrigo Silveira Vieira¹, Morsyleide de Freitas Rosa³; ¹Universidade Federal do Ceará, ²Instituto Federal de Educação, Ciência e Tecnologia do Ceará, ³EMBRAPA - Agroindústria Tropical
- 11:00 Acetylated cellulose nanoparticles: study of the incorporation and release of active compounds** **P5.C.56**
Kaellen Oliveira Caleffi¹, Gizilene Maria Carvalho¹; ¹Universidade Estadual de Londrina
- 11:00 Microstructural evolution, mechanical properties and corrosion resistance of unidirectionally solidified Zn-Mg alloys** **P5.C.57**
Talita Almeida Vida¹, Thiago Soares Lima¹, Crystopher Brito², Noé Cheung¹, Amauri Garcia¹; ¹Universidade Estadual de Campinas, ²Universidade Federal de São Paulo
- 11:00 Evaluation of the interaction between Pluronic™ triblock copolymers and curcumin** **P5.C.58**
Adalberto Enumo Junior¹, Alexandre Luis Parize¹; ¹Universidade Federal de Santa Catarina
- 11:00 Incorporation of copper in HA/APTES nanoparticles aiming a new approach for osteosarcoma diagnosis and treatment** **P5.C.59**
Marcelo Fernandes Cipreste¹, Elisa Maria da Cunha Mecês¹, Pedro Lana Gastelois¹, Waldemar Augusto de Almeida Macedo¹, Edésia Martins Barros Sousa¹; ¹Centro de Desenvolvimento da Tecnologia Nuclear
- 11:00 Magnetic scaffold based on hydroxyapatite and magnetite for bone regeneration.** **P5.C.60**
Anderson Valério Chaves¹, Pierre Basílio Almeida Fachine¹, Igor Iuco Castro da Silva¹, Davino Machado Andrade Neto¹; ¹Universidade Federal do Ceará
- 11:00 Prospective study of vegetable oils for polymer synthesis** **P5.C.61**
Rejane Teixeira do Nascimento¹, Valdivânia Albuquerque do Nascimento¹, José Milton Elias de Matos¹, Maria Rita de Moraes Chaves Santos¹, Walber Alves Freitas¹; ¹Universidade Federal do Piauí
- 11:00 Boron nitride nanotubes doped with samarium and gadolinium: a proposal for teranostic system** **P5.C.62**
WELLINGTON MARCOS MASCULINO SILVA¹, Rayane Hellen de Andrade Alves Silva¹, Marcelo Fernandes Cipreste¹, Gracielle Andrade Ferreira¹, Edésia Martins Barros Sousa¹; ¹Centro de Desenvolvimento da Tecnologia Nuclear
- 11:00 Structural Evaluation of Properties of Nanofertilizer for Sugarcane Plants by SAXS** **P5.C.63**
Yolice Patricia Moreno Ruiz^{1,2}, André Galembeck², João Henrique Zimnoch Dos Santos¹; ¹Universidade Federal do Rio Grande do Sul, ²Centro de Tecnologias Estratégicas do Nordeste
- 11:00 Evaluation of the cytotoxicity of chicha gum chemically modified using maleic anhydride** **P5.C.64**
Solranny Carla Cavalcante Costa e Universidade Federal¹, Elton Marks de Araujo Braz¹, Maria Onaira Gonçalves Ferreira¹, Idglan Sá de Lima¹, Alessandra Ribeiro Freitas¹, Josy Anteveli Osajima¹, Edson Cavalcanti da Silva Filho¹, Durcilene Alves da Silva¹; ¹Universidade Federal do Piauí

- 11:00 Magnetic nanoparticles modified with L-Lysine and Melittin as recognition system in the detection of pathogenic bacteria in food samples** P5.C.65
Deivy Wilson Wilson¹, Gisela Ibañez Redin¹, Elsa Materón², Daniel Souza Corrêa³, Osvaldo Novais de Oliveira Jr¹; ¹IFSC, USP, SAO PAULO, ²Universidade Federal de São Carlos, ³Empresa Brasileira de Pesquisa Agropecuária - Embrapa Instrumentação - CNPdia
- 11:00 Polyurethane Nanocomposites With Sugarcane Bagasse Fiber Nanocellulose** P5.C.66
Thais Moraes Arantes^{1,2}, Gabriel Marques Rosa^{1,2}, Luciano Morais Lião¹; ¹Universidade Federal de Goiás, ²IF Goiano- Campus Iporá
- 11:00 Polyurethanes from Polyols Synthesized from Baru Oil** P5.C.67
Gabriel Marques Rosa^{1,2}, André Luiz Silva Mota², Thais Moraes Arantes², Luciano Morais Lião¹; ¹Universidade Federal de Goiás, ²IF Goiano- Campus Iporá
- 11:00 Bacterial cellulose: matrix for the production of bioactive dressing based on papain for wound healing of the skin** P5.C.68
Niedja Fittipaldi Vasconcelos¹, Fábila Karine Andrade¹, Rodrigo Silveira Vieira¹, Diego Mantovani², Lidia Araújo Pinto Vieira³, Mateus Costa Leal³, Maria de Fátima Borges³, Morsyleide de Freitas Rosa³; ¹Universidade Federal do Ceará, ²Université Laval, ³Empresa Brasileira de Pesquisa Agroindustrial
- 11:00 Silanized Iron Oxide Nanoparticles loaded with Doxorubicin applied to cancer treatment** P5.C.69
Wivyan Castro Lage¹, Daniel Cristian Ferreira Soares¹, Yanka dos Reis Soares de Moura¹; ¹Universidade Federal de Itajubá
- 11:00 Rapid and quantitative ¹³C MultiCP SSNMR for simultaneous evaluation of chitosan acetylation and crystallinity** P5.C.70
William Marcondes Facchinatto¹, Anderson Fiamingo², Rubens Bernardes-Filho³, Sergio Paulo Campana-Filho¹, Luiz Alberto Colnago³; ¹Instituto de Química de São Carlos, ²Instituto de Física de São Carlos, ³Empresa Brasileira de Pesquisa Agropecuária - Embrapa Instrumentação - CNPdia
- 11:00 Effect of precursor solutions on synthesis of monodisperse CoFe₂O₄ nanoparticles obtained by microwave-assisted thermal decomposition method** P5.C.71
Mikaelly Daiany Ferreira Borges¹, Pedro Yuri Cunha de Santana¹, Renilma de Souza Pinheiro Fonseca¹, Francisco Sávio Mendes Sinfrônio¹, Alan Silva de Menezes¹, Fernando Carvalho Silva¹; ¹Universidade Federal do Maranhão
- 11:00 Sensing phosphate by Cobalt Ferrite nanoparticles (CoFe₂O₄ NPs)** P5.C.72
Gabriela Plautz Ratkovski¹, Kamila Teresa Oliveira do Nascimento¹, Graciela da Costa Pedro¹, Romário Justino da Silva¹, Edson Reis¹, Filipe Dione Souza Gorza¹, Bruna Gomes Maciel¹, Celso Pinto de Melo¹; ¹Universidade Federal de Pernambuco
- 11:00 Growth and Study by X Ray Diffraction and Raman Spectroscopy of Copper (II) L-Threoninate Crystal** P5.C.73
João Gomes de Oliveira Neto¹, Leonardo Sobreira Rodrigues¹, Jéssica Oliveira Rodrigues¹, Francisco Ferreira Sousa², Adenilson Oliveira dos Santos¹; ¹Universidade Federal do Maranhão, ²Universidade Federal do Pará
- 11:00 Synthesis and Characterization of Antitumor Copper (II) ternary complex with Glycine and Phenanthroline.** P5.C.74
João Gomes de Oliveira Neto¹, Leonardo Sobreira Rodrigues¹, Ian Felipe Sousa Reis¹, Kamila Rodrigues Abreu¹, Francisco Ferreira Sousa², Adenilson Oliveira dos Santos¹; ¹Universidade Federal do Maranhão, ²Universidade Federal do Pará
- 11:00 Synthesis and characterization of Ag/Polypyrrole fluorescent nanocomposite** P5.C.75
Elton Marlon Araújo Lima¹, Hanna Nóbrega Almeida¹, Gabriela Plautz Ratkovski¹, César Augusto Souza de Andrade¹, Celso de Melo¹; ¹Universidade Federal de Pernambuco

- 11:00 Functionalized magnetic nanoparticles with PCL-b-PEG-Biotin copolymer containing a disulfide bond for the controlled release of methotrexate.** P5.C.76
João Victor Brandt¹, Rodolfo Debone Piazza¹, Bruno Estevam Amantéa¹, Jaime Ricardo Vega Chacon¹, Caio Carvalho dos Santos¹, Miguel Jafelicci Júnior¹, Rodrigo Fernando Costa Marques¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:00 Obtaining aqueous suspension of nanometric cvd diamonds by ultrasonic cavitation** P5.C.77
Carolina Ramos Hurtado^{1,2}, Cristiane da Costa Wachesk^{1,3}, Alexandre Martins Santos¹, Vladimir Jesus Trava-Airold³, Dayane Batista Tada¹; ¹Universidade Federal de São Paulo, ²Instituto Federal de São Paulo, ³Instituto Nacional de Pesquisas Espaciais
- 11:00 Photosensitization of cellular membrane mimetic systems induced by toluidine blue phenothiazine** P5.C.78
Alexandre Mendes de Almeida Junior¹, Pedro Henrique Benites Aoki¹; ¹FCL-UNESP Campus de Assis
- 11:00 Cardiovascular Devices: sol-gel based calcium phosphates coatings deposited on Co-Cr-Ni-Mo alloys modified by laser beam irradiation** P5.C.79
Beatriz Ambrozini¹, Antonio Carlos Guastaldi¹, Miguel Jafelicci Junior¹; ¹Instituto de Química de Araraquara
- 11:00 Influence of the processing conditions on the thermal and rheological properties of PLA/HNT nanocomposites** P5.C.80
Pedro Henrique da Silva Vieira¹, Mateus Garcia Rodolfo¹, Jéssica Marinho Oliveira Silva¹, Lidiane Cristina Costa¹, Juliano Marini¹; ¹Universidade Federal de São Carlos
- 11:00 DNA extraction from human blood using commercial kits and γ -Fe₂O₃/Pani and γ -Fe₂O₃/Chi/Pani magnetic nanocomposites: a comparative study** P5.C.81
Bruna Gomes Maciel¹, Romário Justino da Silva¹, Graciela da Costa Pedro¹, Filipe Dione Souza Gorza¹, Kamila Teresa Oliveira do Nascimento¹, Gabriela Plautz Ratkovski¹, Alicia Elizabeth Chávez Guajardo², Juan Carlos Medina Llamas³, José Jarib Alcaraz Espinoza¹, Celso Pinto de Melo¹; ¹Universidade Federal de Pernambuco, ²Universidad Autónoma de Zacatecas, ³Instituto Politécnico Nacional
- 11:00 Magnetic retrieval of dna from aqueous media using a γ -Fe₂O₃ @Polythiophene nanocomposite** P5.C.82
Romário Justino da Silva¹, Bruna Gomes Maciel¹, Filipe Dione Souza Gorza¹, Graciela da Costa Pedro¹, Gabriela Plautz Ratkovski¹, Alicia Elizabeth Chávez Guajardo², Juan Carlos Medina Llamas³, José Jarib Alcaraz Espinoza¹, Celso Pinto de Melo¹; ¹Universidade Federal de Pernambuco, ²Universidad Autónoma de Zacatecas, ³Instituto Politécnico Nacional
- 11:00 Dissolution profiles of Red Propolis chitosinates** P5.C.83
Nataly Miranda do Nascimento¹, Ticiano Gomes do Nascimento¹, Adriana Santos Ribeiro¹, Clinston Paulino de Almeida¹; ¹Universidade Federal de Alagoas
- 11:00 Caseinates loaded with red propolis extract: obtention and characterization** P5.C.84
Clinston Paulino de Almeida¹, Amanda Barbosa Wanderley¹, Felipe Jardell Leão Barbosa dos Santos¹, Valdemir da Costa Silva¹, Gerson Ponce Redondo¹, Irinaldo Diniz Basílio-Júnior¹, Ana Flávia Oliveira Santos², Ticiano Gomes do Nascimento¹, Nataly Miranda Nascimento¹, Adriana Santos Ribeiro¹; ¹Universidade Federal de Alagoas, ²Centro de Estudos Superiores de Maceió
- 11:00 Use of Fe₂O₃/PEDOT magnetic nanocomposites for a simple “turn-on” fluorescent detection of nucleic acids** P5.C.85
Graciela da Costa Pedro¹, Filipe Dione Souza Gorza¹, Edson Reis¹, Hérica Dias da Rocha¹, Gabriela Plautz Ratkovski¹, Romário Justino da Silva¹, Bruna Gomes Maciel¹, Celso Pinto de Melo¹; ¹Universidade Federal de Pernambuco

- 11:00 New coordination polymers based on p-sulfonate-calix[4]arene as a drug adsorption platform** **P5.C.86**
José Daniel Da Silva Fonseca¹, ALLANA CHRISTINA FROS¹, Bráulio Silva Barros¹, JOANNA ELZBIETA KULESZA¹; ¹Universidade Federal de Pernambuco
- 11:00 Dental Zirconia obtained by the Pechini method: a color study** **P5.C.87**
 Themistocles de Sousa Campelo¹, Naasson Matheus Pereira Balica¹, Edson Cavalcante da Silva Filho¹, Maria Rita de Moraes Chaves Santos¹, Rafaela Luiz Pereira Santos¹; ¹Universidade Federal do Piauí
- 11:00 Nuclear Magnetic Resonance Evaluation of Chia Extract** **P5.C.88**
Mariana Silva Alves¹, Lívia Rodrigues Menezes¹, Maria Inês Bruno Tavares¹; ¹Universidade Federal do Rio de Janeiro
- 11:00 Raman spectroscopy characterization of thymol crystals under different temperature conditions** **P5.C.89**
Thyago Almeida dos Santos¹, Kleber José do Rosário da Silva¹, Joyce Kelly do Rosário da Silva¹, Waldomiro Gomes Paschoal Junior¹; ¹Universidade Federal do Pará
- 11:00 Synthesis and characterization of Superparamagnetic Iron Oxide Nanoparticles functionalized with Cysteine, Glutathione and Gold for potential biomedical applications.** **P5.C.90**
Tatiane Nassar Britos¹, Paula Silvia Haddad¹; ¹Universidade Federal de São Paulo
- 11:00 Biogenic synthesis of silver nanoparticles using red propolis of Alagoas and its antibacterial activity** **P5.C.91**
Valcilaine Teixeira Barbosa¹, Joyelanne Kaline Chagas Souza¹, Juliana Almerino Silva¹, Nathália Barbosa da Silva¹, Saulo Vitor Silva¹, Mario Roberto Meneghetti¹, Irinaldo Diniz Basílio-Júnior¹, Valter Alvino Silva¹, Rui Eduardo Moreira², Luciano Aparecido Meireles Grillo¹, Camila Braga Dornelas¹; ¹Universidade Federal de Alagoas, ²Tescan do Brasil Instrumentos Científicos Ltda
- 11:00 Study of zeolites capacity as an excipient for olanzapine modified delivery system** **P5.C.92**
Iane Soares Souza¹, Sibebe Berenice Castellã Pergher¹; ¹Universidade Federal do Rio Grande do Norte
- 11:00 Synthesis, characterization and in vitro toxicological evaluation of citrate-coated cobalt ferrite nanoparticles** **P5.C.93**
Daniele Alves Fagundes¹, Liliam Viana Leonel¹, Ester Figueiredo de Oliveira¹, Luis Eugenio Fernandez-Outon², Raquel Gouvêa dos Santos¹, José Domingos Ardisson¹; ¹Centro de Desenvolvimento da Tecnologia Nuclear, ²Universidade Federal de Minas Gerais
- 11:00 Conjugation of superparamagnetic nanoparticles of iron oxide and curcumin: Combining photodynamic therapy and magnetic hyperthermia** **P5.C.94**
Willian Max Oliveira de Souza de Santana¹, Bruno Leonardo Caetano¹, Celso Valentim Santilli¹, Carla R. Fontana¹, Christine Menager²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Université Paris 4 Sorbonne
- 11:00 Effect of the metal precursor on the synthesis of magnetite nanoparticles obtained by microwave-assisted thermal decomposition.** **P5.C.95**
Ingrid Nogueira Souza¹, Renilma de Souza Pinheiro Fonseca¹, Inocêncio Sanches dos Santos Neto¹, Alan Silva de Menezes¹, Fernando Carvalho Silva¹, Francisco Sávio Mendes Sinfonio¹; ¹Universidade Federal do Maranhão
- 11:00 Study of the Vortex Iron Oxide nanoparticles for magnetic hyperthermia** **P5.C.96**
Bianca Monserrat Galeano Villar¹, Richard Caraballo¹, Priscilla Vanessa Finotelli², Luiz Augusto Sousa de Oliveira², Jamili Altoé da Cunha², Flávio Garcia¹; ¹Centro Brasileiro de Pesquisas Físicas, ²Universidade Federal do Rio de Janeiro

- 11:00 Synthesis and characterization of methyl methacrylate latices with n-butyl acrylate stabilized by different concentrations of cationic starch** P5.C.97
Lina Alcantara Rodrigues¹, Maurício Pinheiro de Oliveira^{1,2}; ¹Universidade Federal de São Paulo, ²Departamento de Ciência de Tecnologia
- 11:00 Charge addition in the Labaditin amino acid sequence improves its permeability in LUVs of *S. aureus* phospholipid composition** P5.C.98
Simone Cristina Barbosa¹, Thatyane Morimoto Nobre¹, Eduardo Maffud Cilli², Osvaldo Novais de Oliveira Jr¹; ¹Instituto de Física de São Carlos, ²Instituto de Química de Araraquara
- 11:00 Synthesis of Polyois From Baru nut Oil** P5.C.99
André Luiz Silva Mota¹, Gabriel Marques Rosa², Thais Moraes Arantes¹; ¹IF Goiano-Campus Iporá, ²Universidade Federal de Goiás
- 11:00 Thermodynamic parameters of hydrophobic - hydrophilic transition from thermosensitive poly(N-vinylcaprolactam) hydrogels** P5.C.100
Lucas Silva Ribeiro¹, Renata Lang Sala¹, Emerson Rodrigues Camargo¹; ¹Federal University of Sao Carlos
- 11:00 Characterization microstructural of colloidal systems evaluated by SAXS** P5.C.101
Leticia Streck¹, Ana Luiza Porpino Fernandes Caroni¹, Pedro Italo Cruz¹, José Luís Cardozo Fonseca¹; ¹Universidade Federal do Rio Grande do Norte
- 11:00 Study of PMMA Scaffolds by salt-leaching as a release system of curcumin** P5.C.102
Francisco van Riel Neto¹, Erick Piovesan¹; ¹Universidade Federal de Uberlândia
- 11:00 Extraction and characterization of the lyophilized chia (*Salvia hispanica* L.) mucilage** P5.C.103
Camila dos Reis Oliveira¹, Liana Moreira Magalhães¹, igor frederico ramos¹, Josy Anteveli Osajima¹, Alessandra Braga Ribeiro¹; ¹Universidade Federal do Piauí
- 11:00 Development of cosmetics based on chia seed mucilage (*Salvia hispanica* L.): Evaluation of primary stability** P5.C.104
Monalisa de Alencar Lucena¹, igor frederico ramos¹, Maryana Matias Paiva de Lima¹, Liana Moreira Magalhães¹, Alessandra Braga Ribeiro¹; ¹Universidade Federal do Piauí
- 11:00 Microbiological and physicochemical characteristics of polymer extracted from chia (*Salvia hispanica* L.) seed** P5.C.105
Monalisa de Alencar Lucena¹, igor frederico ramos¹, francisco lopes da silva filho¹, Waleska Ferreira de Albuquerque¹, Alessandra Braga Ribeiro¹; ¹Universidade Federal do Piauí
- 11:00 Cyclodextrin used as nanoreator: production of nanoparticles for medical application** P5.C.106
Kate Cristina Blanco¹, Cleber Alexandre Amorim², Jonas Contiero²; ¹Instituto de Física de São Carlos, ²Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:00 Double network hydrogels containing nanomicelles: influence of cross-linking types on toughness and stretchability** P5.C.107
Murilo Camargo Constantino¹, Mathilde Julienne Gisèle Champeau Ferreira¹; ¹Universidade Federal do ABC
- 11:00 Synthesis of functional Au@Carbynoid nanocomposites and Carbynoid luminescent nanoparticles during CO₂ recycling assisted by pulsed laser ablation of gold target in water** P5.C.108
Tahir Tahir¹, CARLOS ALBERTO TOLOZA TOLOZA¹, Alexandre Pinto Canellas¹, Marco Cremona¹, Fernando Lázaro Freire Júnior¹, Omar Pandoli¹, Sonia Renaux Wanderley Louro¹, Ricardo Queiroz Aucelio¹, Aline Magalhaes¹, Leonard Francis², Rafael C. Chavez¹, Tommaso DEL ROSSO¹; ¹Pontificia Universidade Católica do Rio de Janeiro, ²International Iberian Nanotechnology Laboratory

- 11:00 Stabilization of Nickel Hydroxide Nanoparticles using Silk Fibroin** P5.C.109
Eduardo Ruben Nascimento¹, Wendel Andrade Alves¹; ¹Universidade Federal do ABC
- 11:00 Characterization of polymers obtained from chia (*Salvia hispanica* L.)** P5.C.110
igor frederico ramos¹, Liana Moreira Magalhães¹, Nicolle Luz Martins Rocha¹, Camila dos Reis Oliveira¹, francisco lopes da silva filho¹, Monalisa de Alencar Lucena¹, Edson Cavalcanti da Silva Filho¹, Alessandra Braga Ribeiro¹; ¹Universidade Federal do Piauí
- 11:00 Technological properties of the chia seed (*Salvia hispanica* L.) mucilage** P5.C.111
igor frederico ramos¹, Camila dos Reis Oliveira¹, Monalisa de Alencar Lucena¹, Francisco Lopes da Silva Filho¹, Nicolle Luz Martins Rocha¹, Marcilia Pinheiro Costa¹, Alessandra Braga Ribeiro¹; ¹Universidade Federal do Piauí
- 11:00 Characterization of microbial exopolysaccharide extracted from kefir grains** P5.C.112
francisco lopes da silva filho¹, Camila dos Reis Oliveira¹, Nicolle Luz Martins Rocha¹, igor frederico ramos¹, Alessandra Braga Ribeiro¹; ¹Universidade Federal do Piauí
- 11:00 Development and characterization of nanostructured system: Hyaluronic acid hydrogel containing dispersed nanocapsules of PCL with lipid nucleus for mycoses treatment** P5.C.113
Juliana Hoch¹, EDUARDO THADEU RODRIGUES¹, Ana Luiza Silva¹, Silvia Guterres², Adriana Pohlmann², Kelly Cristine Zatta²; ¹Universidade do Vale do Rio dos Sinos, ²Federal University of Rio Grande do Sul
- 11:00 Nanoparticle-Cell Interactions: Surface Chemistry Effects on the Cellular Uptake of pH-Responsive Assemblies** P5.C.114
Carlos Eduardo de Castro¹, Caroline Arana da Silva Ribeiro¹, Alex Carvalho Alavarsse¹, Lindomar Albuquerque¹, Maria Cristina Carlan da Silva¹, Eliezer Jager², Vanessa Schmitd³, Cristiano Giacomelli³, Fernando C. Giacomelli¹; ¹Universidade Federal do ABC, ²Academy of Science of Czech Republic, ³Universidade Federal de Santa Maria
- 11:00 Investigation of organoclay based on montmorillonite and ethoxylated fatty acid** P5.C.115
Deborah Santos de Assis Liguori¹, Elisabeth Andreoli de Oliveira¹, Geraldo José da Silva¹; ¹Universidade de Brasília
- 11:00 Production of a palygorskite and neomycin bioceramic sheet by aqueous tape casting technology** P5.C.116
Anna Karla de Carvalho Freitas¹, Sibebe Berenice Castellã Pergher¹, Wilson Acchar¹; ¹Universidade Federal do Rio Grande do Norte

SESSION C. 03 (14:00 - 16:15) - Room Cedro

- 14:00 Esterification influence in thermosensitive behavior of coated magnetic nanoparticles with PNIPAM-co-PAA and PNVCL-co-PAA** C.O3.1
Bruno Estevam Amantéa¹, Rodolfo Debone Piazza¹, Jaime Ricardo Vega Chacon¹, Taciane Pereira da Costa¹, Caio Carvalho dos Santos¹, Miguel Jafelicci Júnior¹, Rodrigo Fernando Costa Marques¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 14:15 Tunable NIR-vis emission from AgInSe₂-ZnS quantum dots electrochemically generated** C.O3.2
Felipe Leon Nascimento Sousa¹, Denilson de Vasconcelos Freitas¹, Anderson De Jesus Caires², Stterferson Emanuel Silva¹, Herman Sander Mansur², Walter Mendes de Azevedo¹, Marcelo Navarro¹; ¹Universidade Federal de Pernambuco, ²Universidade Federal de Minas Gerais
- 14:30 Polysilsesquioxane Nanoparticles as Nanocarriers for PpIX-mediated PDT** C.O3.3
Ilaiáli Souza Leite^{1,2}, Zachary Lyles³, Juan Luis Vivero-Escoto³, Natalia Mayumi Inada^{1,2}; ¹Universidade de São Paulo, ²Instituto de Física de São Carlos, ³University of North Carolina Charlotte

- 14:45 Application of nanocomposite for detection of cardiac lesion marker** C.O3.4
 Jéssica Guimarães Brussaco¹, José Manuel Rodrigueiro Flauzino¹, Jussara Vieira Silva¹,
 Anna Clara Rios Moço¹, Pedro Henrique Guedes¹, João Marcos Madurro¹, Ana Graci
 Brito Madurro¹; ¹Universidade Federal de Uberlândia
- 15:00 Development of rotary jet spun membranes with potential for cardiovascular applications** C.O3.5
 Isabella Caroline Pereira Rodrigues^{1,2}, Eder Socrates Najar Lopes^{1,3}, André Luiz
 Jardim^{1,4,5}, Laís Pellizzer Gabriel^{1,2}; ¹Universidade Estadual de Campinas, ²Faculdade de
 Ciências Aplicadas, ³Faculdade de Engenharia Mecânica, ⁴Faculdade de Engenharia
 Química, ⁵Instituto Nacional de CeT em Biofabricação

THURSDAY, SEPTEMBER 20

Oral presentations

* Invited Lecture

SESSION C. 01 (09:30 - 11:00) - Room Cedro

- 09:30 A novel sonochemical synthesis route to prepare highly water disperse Prussian blue nanocubes** C.O1.1
Odja Alexandra Gama Vieira¹, Stterferson Emanuel Silva¹, Walter Mendes de
 Azevedo¹; ¹Universidade Federal de Pernambuco
- 09:45 Siloxane-(polyoxipropylene) hybrid matrix used for long-term drug release of Penicilin G: Physico-chemical characteristics of the drug incorporation and release mechanisms.** C.O1.2
Ranielle oliveira silva¹, Jéssica Ribeiro¹, Alexandre Carneiro Silvino¹, Katty Gyselle
 Holanda Silva², Karim Dahmouche³; ¹Instituto de Macromoleculas Professora Eloisa
 Mano, ²CCS UFRJ, ³Universidade Federal do Rio de Janeiro
- 10:00 Influence of process parameters on the growth of hydroxyapatite coatings by plasma electrolytic oxidation of tantalum** C.O1.3
 Rosana Fernandes Antonio¹, Elidiane Cipriano Rangel¹, Nilson C Cruz¹; ¹Laboratory of
 Technological Plasmas
- 10:15 Preliminary study of ionising radiation detection properties of nanostructured BiSI pellets** C.O1.4
Maia Mombrú¹, Ivana Aguiar¹, María Eugenia Pérez¹, Laura Fornaro¹; ¹Universidad de
 la República

SYMPOSIUM D - XI Brazilian Electroceramics Symposium

Symposium organizers:

Manuel Henrique Lente (UNIFESP)

Daniel Zanetti de Florio (UFABC)

Marcelo Ornaghi Orlandi (UNESP)

TUESDAY, SEPTEMBER 18

Oral presentations

* Invited Lecture

SESSION D. 01 (09:30 - 10:30) - Room Álamo 2

- 09:30 Ferroelectric Materials: Past, Present and Future** **D.O1.1***
José Antônio Eiras¹; ¹Universidade Federal de São Carlos
- 10:00 Study of Ca₂MnReO₆ under applied hydrostatic pressure up to 1.2GPa** **D.O1.2**
Marcos Tadeu DAzeredo Orlando^{1,2}, Marcia Carvalho de Abreu Fantini³; ¹Universidade Federal do Espírito Santo, ²Departamento de Física, ³Universidade de São Paulo
- 10:15 Factorial design, microstructure and electrical properties of one-step NiO-GDC composites and their Ni-GDC cermets as SOFC anode materials** **D.O1.3**
Allan Jedson Menezes Araújo¹, João Paulo Freitas Grilo², Francisco José Almeida Loureiro², Thamyscira Hermínio Santos Silva³, Carlos Alberto Paskocimas¹, Lizabeth Fernanda Araújo Campos³, Daniel Araújo Macedo³; ¹Universidade Federal do Rio Grande do Norte, ²Universidade de Aveiro, ³Universidade Federal da Paraíba

SESSION D. 02 (11:00 - 12:00) - Room Álamo 2

- 11:00 Defects in Sb₂Se₃ thin films** **D.O2.1***
Juan Carlos González¹, Aigul Shongalova², Maria Rosário Correia², Jennifer Claudia Passos Teixeira², Joaquim Pratas Leitão², Samaneh Ranjbarrizi³, Siddhartha Garud³, Bart Vermang³, Jose M. V. Cunha⁴, Willians Principe Fernandes¹, Vagner Eustaquio de Carvalho¹, Edmar A Soares¹, Maria Ivonete da Silva¹, Pedro Salomé⁴, Paulo Fernandes⁵; ¹Universidade Federal de Minas Gerais, ²Universidade de Aveiro, ³IMEC, ⁴International Iberian Nanotechnology Laboratory, ⁵Instituto Superior de Engenharia do Porto
- 11:30 Development of ceria-based direct ethanol intermediate-temperature solid oxide fuel cell** **D.O2.2**
Francisco Nobuo Tabuti¹, Victoria B Pereira¹, Fernando Piazzolla¹, Fabio Coral Fonseca¹; ¹Instituto de Pesquisas Energéticas e Nucleares
- 11:45 Production and characterization of ferroelectric relaxor-like ceramics of KNN doped with Li, La and Bi.** **D.O2.3**
Yasmim da Silva Rocha¹, José Antônio Eiras², Manuel Henrique Lente¹; ¹Universidade Federal de São Paulo, ²Universidade Federal de São Carlos

WEDNESDAY, SEPTEMBER 19

Oral presentations

* Invited Lecture

SESSION D. 01 (09:30 - 10:30) - Room Álamo 2

- 09:30 Magnetolectric particulate composites: challenges in material choice and processing to improve ME response** **D.O1.1***
Ducinei Garcia¹, Diego Seiti Fukano Viana¹, Adilson J A de Oliveira¹, Alexandre José Gualdi¹, Korllvary P. C. P. Jimenez¹, Flávio Paulo Milton¹, Aloadir Lucas Oliveira¹, Washington Santa-Rosa¹, Fabio Luis Zabotto¹, José Antônio Eiras¹, Claudia Patricia Fernandez¹, Ruth H. G. A. Kiminami¹, Marcello Rubens Barsi Andreeta¹; ¹Universidade Federal de São Carlos
- 10:00 Metal oxide/electrolyte interfaces for multifunctional devices** **D.O1.2***
Clara Santato¹, Martin Schwellberger Barbosa²; ¹Polytechnique Montréal, ²Instituto de Química de Araraquara

SESSION D. 02 (11:00 - 12:00) - Room Álamo 2

- 11:00 Copper hexacyanoferrate as cathode material for hydrogen peroxide fuel cell** **D.O2.1**
Renata Figueredo Martins¹, Débora Alois de Abreu Martins¹, Lorena Almeida Cadête Costa¹, Tulio Matencio¹, Luciano Andrey Montoro¹; ¹Universidade Federal de Minas Gerais
- 11:15 Effect of Pr on microstructure and dielectric properties of SrTiO₃** **D.O2.2**
Talita Gishitomi Fujimoto¹, Eliana Navarro dos Santos Muccillo¹; ¹Instituto de Pesquisas Energéticas e Nucleares
- 11:30 Low Power Single Element Sensor Device for Hazardous Gases Detection** **D.O2.3**
Marcelo Ornaghi Orlandi¹, Mateus Gallucci Masteghin¹; ¹Instituto de Química de Araraquara
- 11:45 Extraordinay Hall Effect in Pd/[Co-SiO₂] multilayer thin films with perpendicular magnetic anisotropy.** **D.O2.4**
Sebastian Michea¹, Simon Oyarzun², Juliano Casagrande Denardin²; ¹Universidad Autónoma de Chile, ²Universidad de Santiago de Chile

THURSDAY, SEPTEMBER 20

Poster presentations

SESSION P6 (09:30 - 11:00)

- 09:30 A comparative study between SBA-15 and SBA-16 Mesoporous Silicas as Glibenclamide Carriers** **P6.D.1**
Vaeudo Valdimiro Oliveira¹, Edson Cavalcanti da Silva Filho¹; ¹Universidade Federal do Piauí
- 09:30 Thermomechanical behavior of zirconium boride and doped-ceria for high temperature synthetic fuel production by solar thermochemical conversion** **P6.D.2**
Daniel Zanetti de Florio¹, André Santarosa Ferlauto¹, Debora Marani¹, Fabio Coral Fonseca², Vincenzo Esposito³; ¹Universidade Federal do ABC, ²Instituto de Pesquisas Energéticas e Nucleares, ³Technical University of Denmark / Danmarks Tekniske Universitet
- 09:30 Composite membranes based on rare earth-doped ceria/carbonates for CO₂ separation** **P6.D.3**
Tatiane Cristina Porfírio¹, Reginaldo Muccillo^{2,1}; ¹Instituto de Pesquisas Energéticas e Nucleares, ²Universidade Federal do ABC
- 09:30 Optical and piezoelectric properties of rare-earth modified lead-free KNN hard piezophotonic ceramics** **P6.D.4**
Mayara Cardozo dos Santos¹, José Antônio Eiras², Manuel Henrique Lente¹; ¹Universidade Federal de São Paulo, ²Universidade Federal de São Carlos
- 09:30 Dielectric study of CTO-SWO composites for microwave applications** **P6.D.5**
Natália Dantas Gomes de Souza¹, Denis Valony Martins Paiva¹, Marcelo Antonio Santos da Silva¹, Antonio Sérgio Bezerra Sombra¹, Pierre Basílio Almeida Fechine¹; ¹Universidade Federal do Ceará
- 09:30 Synthesis and magnetic characterization of Ni nanoparticles on ceramic matrix** **P6.D.6**
Victor Buratto Tinti¹, Fabio Coral Fonseca², Daniel Zanetti de Florio¹; ¹Universidade Federal do ABC, ²Instituto de Pesquisas Energéticas e Nucleares
- 09:30 Electrical and Magnetic Measurements on Highly Oriented FeSe_{0.5}Te_{0.5} Superconductor** **P6.D.7**
Karciano J. S. Silva¹, David A. L. Tellez², D. M. Buitrago³, Carlos A. P. Vargas⁴, Carlos A. C. Passos⁵, I. M. Capucho⁵, J. N. O. Pinto⁵, V. T. Abílio⁵, J. Albino Aguiar³; ¹Instituto Federal de Educação, Ciência e Tecnologia de Alagoas, ²Universidad Nacional de Colombia, ³Universidade Federal de Pernambuco, ⁴Universidad Pedagógica y Tecnológica de Colombia, ⁵Universidade Federal do Espírito Santo
- 09:30 The Ca-doped Ca_xFe_{1-x}Te_{0.8}S_{0.2}** **P6.D.8**
Karciano J. S. Silva¹, J. Albino Aguiar²; ¹Instituto Federal de Educação, Ciência e Tecnologia de Alagoas, ²Universidade Federal de Pernambuco
- 09:30 Physical properties of multiferroic Eu_{1-x}Ba_xTiO₃ thin films** **P6.D.9**
Marcio Sena Curvello¹, Alessandra Zenatti¹, Marcia Tsuyama Escote¹; ¹Universidade Federal do ABC

- 09:30 NiO-CGO composite powder synthesized by co-precipitation method: material as supercapacitor electrode** P6.D.10
Allan Jedson Menezes Araújo¹, Vinicius Dias Silva², Thiago Araujo Simoes², Thamyscira Hermínio Santos Silva², Daniel Araújo Macedo², Rubens Maribondo Nascimento¹, Carlos Alberto Paskocimas¹; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Federal da Paraíba
- 09:30 Electrochemical characterization of one-step synthesized Ni-based cermet anodes under hydrogen and biogas** P6.D.11
Glageane da Silva Souza¹, Moisés Romolos Cesário², João Paulo Freitas Grilo³, Francisco José Almeida Loureiro³, Duncan P. Fagg³, Daniel Araújo Macedo¹; ¹Federal University of Paraíba, ²Université du Littoral Côte d'Opale, ³University of Aveiro
- 09:30 Praseodymium doped cerium oxide nanoparticles: structural and morphological analyses** P6.D.12
Liliane Lelis Oliveira¹, Mario Cilence¹, Elson Longo², Alexandre Z. Simões¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade Federal de São Carlos
- 09:30 Dielectric characterization of Fe₂Mo₃O₁₂ at RF and microwave.** P6.D.13
Eduardo Viana de Araujo¹, Marcelo Antonio Santos da Silva¹, Antonio Sérgio Bezerra Sombra¹, Pierre Basílio Almeida Fechine¹; ¹Universidade Federal do Ceará
- 09:30 Preparation of electrolytes deposited by dip coating for SOFC supported on the anode** P6.D.14
Nataly Messina Pecelin¹, Daniel Zanetti de Florio¹; ¹Universidade Federal do ABC
- 09:30 New perovskites for use in protonic solid oxide fuel cells** P6.D.15
Rafael de Freitas Cuer¹, Daniel Zanetti de Florio¹; ¹Universidade Federal do ABC
- 09:30 Structural and dielectric behaviour of the four-layer Aurivillius-phase Bi₃R₂FeTi₃O₁₅ (R= Bi, Gd and Nd)** P6.D.16
Paulo Henrique Teixeira da Silva¹, Marcelo Antonio Santos da Silva¹, Alan Silva de Menezes², Wellington Castro Ferreira¹, Alejandro Pedro Ayala¹, Antonio Sérgio Bezerra Sombra¹, Pierre Basílio Almeida Fechine¹; ¹Universidade Federal do Ceará, ²Universidade Federal do Maranhão
- 09:30 Manufacturing and characterization of resistive memories based on doped graphene oxide** P6.D.17
Lucas Guerra Silvestre¹, Marina Sparvoli¹; ¹Universidade Federal do ABC
- 09:30 Study of structural and electric properties of the PZT 52/48 doped with Er⁺³** P6.D.18
Jaime Alberto Sanchez Caceres¹, Carlos A. C. Passos¹, Rodolpho Toniato Corteletti¹; ¹Universidade Federal do Espírito Santo
- 09:30 Electric Characterization of PrNi_{0,8}Co_{0,2}O₃ and LaNi_{0,8}Co_{0,2}O₃ Cathodic Materials Synthesized by the Gelatin Method for Applications in Solid Oxide Fuel Cells (SOFC).** P6.D.19
Danilo Ferreira Queiroz¹, Flávia de Medeiros Aquino¹, Thaís de Oliveira Almeida¹, Iago Bezerril da Silva¹, Fabio Emanuel Franca da Silva¹; ¹Universidade Federal da Paraíba
- 09:30 Sintering and characterization of microstructural, structural and optical properties of (Na K)(Nb Er)O₃ piezophotonic ceramics** P6.D.20
Mayara Cardozo dos Santos¹, José Antônio Eiras², Manuel Henrique Lente¹; ¹Universidade Federal de São Paulo, ²Universidade Federal de São Carlos
- 09:30 Iron oxide/PVA flexible magnetic tape engineered by microwave combustion and tape casting.** P6.D.21
Hugo Plínio de Andrade Alves¹, Antonio Carlos Silva da Costa¹, marcio assolin correa¹, Felipe Bohn¹, Wilson Acchar¹; ¹Universidade Federal do Rio Grande do Norte

- 09:30 Electrical characterization by impedance spectroscopy of SrCoO_{3-δ} cathode for solid oxide fuel cells (SOFC) synthesized by the gelatin method** P6.D.22
Thaís de Oliveira Almeida¹, Flávia de Medeiros Aquino¹, Danilo Ferreira Queiroz¹, Iago Bezerril da Silva¹, Fabio Emanuel Franca da Silva¹; ¹Universidade Federal da Paraíba
- 09:30 Synthesis and characterization of the LaNiO₃, obtained by the gelatin method as cathodes in SOFCs** P6.D.23
Iago Bezerril da Silva¹, Flávia de Medeiros Aquino¹, Fabio Emanuel Franca da Silva¹, Thaís de Oliveira Almeida², Danilo Ferreira Queiroz²; ¹Federal University of Paraíba, ²Universidade Federal da Paraíba
- 09:30 Study of phase transitions in (1-x)Ba(Ti_{1-x}Zr_x)O₃ – x(Ba_yCa_{1-y})TiO₃ (BCZT) system using different characterization techniques** P6.D.24
Rangel Graudiston Aredes¹, Eduardo Antonelli¹; ¹Universidade Federal de São Paulo
- 09:30 Study of the electrical properties of diatomite** P6.D.25
Amanda Regina de Souza Macedo¹, Uílame Umbelino Gomes¹, Ariadne Souza Silva¹, Mariana Chianca Silva¹; ¹Universidade Federal do Rio Grande do Norte
- 09:30 Synthesis of zinc oxide doped with europium by the Pechini method and its magnetic characterization** P6.D.26
Divânia Ferreira da Silva¹, Ramon Alves Torquato¹, Daniel Araújo Macedo¹, Rafael Alexandre Raimundo¹; ¹Universidade Federal da Paraíba
- 09:30 Proteic sol-gel synthesis and structural characterization of CoFe₂O₄ and Ca₃Co₄O₉ powders** P6.D.27
Jakeline Raiane Dora dos Santos¹, Luciena dos Santos Ferreira², THAYSE RICARDO SILVA², Daniel Araújo Macedo³; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Federal da Paraíba, ³Federal University of Paraíba

SYMPOSIUM E - Nanostructured Photonic Materials: Optical Properties and Applications

Symposium organizers:

Luciana Reyes Pires Kassab (CEETEPS)
Cid Bartolomeu de Araujo (UFPE)
Andrea S. S. de Camargo Alvarez Bernardes (IFSC-USP)

MONDAY, SEPTEMBER 17

Oral presentations

* Invited Lecture

SESSION E. 01 (09:30 - 10:30) - Room Pau Brasil

- 09:30 Control of Subwavelength Polaritons in the Graphene-hBN Heterostructure: Electrical Tuning and Diode-like Behavior** **E.O1.1**
Francisco Carlos Barbosa Maia^{1,2}, Brian T. O'Callahan³, Alisson Ronieri Cadore⁴, Ingrid David Barcelos^{4,2}, Leonardo C. Campos⁴, Kenji Watanabe⁵, Takashi Taniguchi⁵, Christoph Deneke⁶, Alexey Belyanin⁷, Markus B. Raschke³, Raul O. Freitas²; ¹Centro Nacional de Pesquisa em Energia e Materiais, ²Brazilian Synchrotron Light Laboratory, ³Colorado University, ⁴Universidade Federal de Minas Gerais, ⁵National Institute for Materials Science, ⁶Institute of Physics Gleb Wataghin, ⁷Texas A&M University
- 09:45 Hyperbolic phonon-polaritons in talc vdW crystals and gate-voltage modulation of local hyperbolic modes in the graphene-talc heterostructure** **E.O1.2**
Ingrid David Barcelos¹, Flavio Feres¹, Alisson Ronieri Cadore², Roberto Luiz Moreira², Raul O. Freitas¹, Francisco Carlos Barbosa Maia^{3,1}; ¹Brazilian Synchrotron Light Laboratory, ²Universidade Federal de Minas Gerais, ³Centro Nacional de Pesquisa em Energia e Materiais
- 10:00 Metallic Nanostructures and their Applications** **E.O1.3***
Alexandre Guimarães Brolo¹; ¹University of Victoria British Columbia

SESSION E. 02 (11:00 - 12:00) - Room Pau Brasil

- 11:00 Hybrids Polaritonic Waves Modes Propagation in Metallic and Dielectric Substrates** **E.O2.1**
Flavio Feres^{1,2}, Ingrid David Barcelos², Raul O. Freitas², Francisco Carlos Barbosa Maia²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Brazilian Synchrotron Light Laboratory
- 11:15 Excitonic Processes in Atomically-Thin MoS₂/MoSe₂ Vertical Heterostructures** **E.O2.2**
Victor Carozo¹, Kazunori Fujisawa², Mauricio Terrones²; ¹Pontificia Universidade Católica do Rio de Janeiro, ²Pennsylvania State University
- 11:30 Nonlinear optics and waveguiding using metallic nanocomposites** **E.O2.3***
Raúl Rangel-Rojo¹, Héctor Sánchez-Esquivel¹, Karen Yahaira Raygoza-Esquivel¹, Luis Rodríguez-Fernández², Alicia Oliver²; ¹Centro de Investigación Científica y de Educación Superior de Ensenada, ²Universidad Nacional Autónoma de México

SESSION E. 03 (14:00 - 16:15) - Room Pau Brasil

- 14:00 Selective Excitation of Fe doped NaYF₄:Ce,Eu,_xFe nanocrystals: Energy Migration mechanism and Magnetic Characteristics** E.O3.1
navadeep shrivastava¹, Vishnu Mogili², Carlos Jacinto³, José Antônio Huamaní Coaquira⁴, Surender Kumar Sharma¹; ¹Universidade Federal do Maranhão, ²Brazilian Nanotechnology National Laboratory, ³Universidade Federal de Alagoas, ⁴Universidade de Brasília
- 14:15 Double resonance Raman scattering in MoS₂ transition metal dichalcogenide** E.O3.2
Bruno R. Carvalho¹, Yuanxi Wang², Sandro Mignuzzi³, Debdulal Roy³, Mauricio Terrones², Cristiano Fantini⁴, Vincent Crespi², Leandro M Malard⁴, Marcos Assunção Pimenta⁴; ¹Universidade Federal do Rio Grande do Norte, ²Pennsylvania State University, ³King's College London, ⁴Universidade Federal de Minas Gerais
- 14:30 Polydispersed Powders (Nd³⁺:YVO₄) for Ultra Efficient Random Lasers** E.O3.3*
Niklaus Ursus Wetter¹, Julia Maria Giehl¹, Ernesto Jimenez-Villar¹, Danilo Anacleto¹; ¹Instituto de Pesquisas Energéticas e Nucleares
- 15:00 High-efficiency, blue, green and near-infrared light-emitting diodes based on triple cation perovskite** E.O3.4
Abd. Rashid bin Mohd Yusoff¹, Wilson José Da Silva², Fabio Kurt Schneider², Yong Soo Cho¹; ¹Yonsei University, ²Universidade Tecnológica Federal do Paraná
- 15:15 Temperature dependence on the double-resonance Raman process for two dimensional Transition Metal Dichalcogenides** E.O3.5
Rafael Nunes Gontijo¹, Bruno R. Carvalho², Ariete Righi¹, Marcos Assunção Pimenta¹, Cristiano Fantini¹; ¹Universidade Federal de Minas Gerais, ²Universidade Federal do Rio Grande do Norte
- 15:30 Plasmon-phonon coupling in natural 2D graphene-talc heterostructure** E.O3.6
Ingrid David Barcelos^{1,2}, Alisson Ronieri Cadore¹, Ananias Alencar³, Francisco Carlos Barbosa Maia^{4,2}, Edrian Mania¹, Rafael Furlan de Oliveira⁵, Carlos Cesar Bof Bufon⁵, Angelo Malachias¹, Roberto Luiz Moreira¹, Raul O. Freitas², Hélio Chacham¹; ¹Universidade Federal de Minas Gerais, ²Brazilian Synchrotron Light Laboratory, ³Universidade Federal dos Vales do Jequitinhonha e Mucuri, ⁴Centro Nacional de Pesquisa em Energia e Materiais, ⁵Laboratório Nacional de Nanotecnologia
- 15:45 New host-guest materials for energy efficient light emitting devices** E.O3.7
Andrea Simone Stucchi de Camargo¹; ¹Instituto de Física de São Carlos

TUESDAY, SEPTEMBER 18

Oral presentations

* Invited Lecture

SESSION E. 01 (09:30 - 10:30) - Room Pau Brasil

- 09:30 Infrared photoluminescence emission from Nd³⁺ and Nd³⁺/Yb³⁺ doped YBO₃ Nanoparticles and the structural properties** E.O1.1
Lauro June Queiroz Maia¹, Andre L. Moura², Cid B. de Araújo³; ¹Universidade Federal de Goiás, ²Universidade Federal de Alagoas, ³Universidade Federal de Pernambuco

09:45 Synthesis of lanthanide-based smart molecularly imprinted polymer: joining the selectivity to a photonic probe E.O1.2
Lizeth Carolina Mojica Sánchez¹, Felipe Leon Nascimento Sousa¹, Savia Gavazza¹, Lourdinha Florencio¹, Eduardo Henrique Lago Falcão¹, Petrus d'Amorim Santa-Cruz¹; ¹Universidade Federal de Pernambuco

10:00 Linear and nonlinear optical response of a single nano-object E.O1.3*
Fabrice Vallee¹, Aurelien Crut¹, Paolo Maioli¹, Natalia Del Fatti¹; ¹Universite Lyon

SESSION E. 02 (11:00 - 12:00) - Room Pau Brasil

11:00 Upconversion and Lifetime Photoluminescence of Lanthanide-Based Materials: from UV to NIR E.O2.1

Igor Carvalho¹, Joao Lucas Rangel¹, Alex Siemiarczuk², Eric Teboul²; ¹HORIBA INSTRUMENTS BRAZIL LTDA, ²HORIBA INSTRUMENTS INC

11:15 SPR sensors for monitoring the degradation processes of Eu(dbm)₃(phen) and Alq₃ thin films under atmospheric and UVA exposure E.O2.2

Quaid Zaman¹, Arthur Rodrigues J. Barreto¹, Omar Pandoli¹, Marco Cremona¹, Tommaso DEL ROSSO¹; ¹Pontificia Universidade Católica do Rio de Janeiro

11:30 Effects of localized surface plasmons on the spectroscopy and laser action of Rare Earth doped crystals E.O2.3*

Luisa Bausá¹; ¹Universidad Autónoma de Madrid

SESSION E. 03 (14:00 - 16:15) - Room Pau Brasil

14:00 CdTe quantum dots supported on modified silica gel E.O3.1

Bianca Marques Figueiredo Costa¹, Krisley Damásio da Silva¹, Denilson de Vasconcelos Freitas¹, Felipe Leon Nascimento Sousa¹, Jéssica Monteiro Dias¹, Marcelo Navarro¹; ¹Universidade Federal de Pernambuco

14:15 Ecofriendly aqueous electrosynthesis of AgInS₂-ZnS quantum dots with high optical efficiency E.O3.2

Felipe Leon Nascimento Sousa¹, Denilson de Vasconcelos Freitas¹, Richardson Robério Silva¹, Brenand Anjos dos Santos Souza¹, Bianca Marques Figueiredo Costa¹, Stterferson Emanuel Silva¹, Anderson De Jesus Caires², Walter Mendes de Azevedo¹, Herman Sander Mansur², Marcelo Navarro¹; ¹Universidade Federal de Pernambuco, ²Universidade Federal de Minas Gerais

14:30 Addressing the Unique Optical Properties of CuInS₂ Quantum Dots E.O3.3*

Gabriel Nagamine¹, Henrique B Nunciaroni¹, Carlos Henrique Brito Cruz¹, Lazaro A Padilha¹; ¹Universidade Estadual de Campinas

15:00 Sonochemical One-Pot Synthesis of GSH Capped Water Soluble AgInS₂ and AgInS₂/ZnS Quantum Dots E.O3.4

Stterferson Emanuel Silva¹, Walter Mendes de Azevedo¹, Marcelo Navarro¹; ¹Universidade Federal de Pernambuco

15:15 Low-threshold optical gain in perovskite quantum dots E.O3.5

Gabriel Nagamine¹, LUIZ GUSTAVO BONATO¹, Jaqueline O. Rocha¹, Ana Flávia Nogueira², Carlos Henrique Brito Cruz¹, Lazaro A Padilha¹; ¹Universidade Estadual de Campinas, ²Instituto de Química da Unicamp

15:30 Characterization of dephasing times of CdSe colloidal quantum dot ensembles using multidimensional coherent spectroscopy E.O3.6

Diogo Burigo Almeida¹, Albert Liu¹, Wan Ki Bae², Lazaro A Padilha³, Steven Cundiff¹; ¹University of Michigan, ²Korea Institute of Science and Technology,, ³Universidade Estadual de Campinas

WEDNESDAY, SEPTEMBER 19

Oral presentations

* Invited Lecture

SESSION E. 01 (09:30 - 10:30) - Room Pau Brasil

- 09:30 Electronic structure investigation of AuNPs surface decorated MoS₂-rGO nanocomposites** **E.O1.1**
Yunier Garcia Basabe¹, Daniel Grasseschi², Eric Cardona Romani³, Flavio C Vicentin⁴, Dunieskys Roberto González Larrude², Alexandre R. Rocha⁵; ¹Universidade Federal da Integração Latino, ²Graphene and Nanomaterials Research Center - Mackgraphe, Mackenzie Presbyterian University, ³SENAI Innovation Institute for Virtual Production Systems, ⁴Brazilian Synchrotron Light Laboratory, ⁵Instituto de Física Teórica, Universidade Estadual Paulista (Unesp)
- 09:45 Formation of Cr₂N nanoparticles by pulsed laser irradiation of a chromium target immersed in liquid nitrogen** **E.O1.2**
Greici Gubert¹, Ronei C. Oliveira¹, Daniel Souza Costa¹, Irineu Mazzaro¹, Guinther Kellermann¹, Evaldo Ribeiro¹, José . Varalda¹, Dante Homero Mosca¹; ¹Universidade Federal do Paraná
- 10:00 Raman spectroscopy in two-dimensional (2D) materials** **E.O1.3***
Marcos A Pimenta^{1,2}; ¹Universidade Federal de Minas Gerais, ²Departamento de Física

Poster presentations

SESSION P5 (11:00 - 12:30)

- 11:00 Characterization of Two Photon Absorption Cross Section (δ) in Chalcones Compounds** **P5.E.117**
Diego da Silva Manoel¹, Ruben Fonseca Rodriguez¹, Rosa Silva Lima Rosa², Caridad Noda Perez², Felipe Terra Martins², Pablo José Gonçalves², Leonardo De Boni¹, Cleber R. Mendonça¹; ¹IFSC, USP, SAO PAULO, ²Universidade Federal de Goiás
- 11:00 Nanostructured Rare Earth Vanadates: Structural, Optical Properties and Applications** **P5.E.118**
Ivo Mateus Pinatti¹, Priscila Barros De Almeida¹, Caique Leite Correa¹, Fabio Augusto Pires¹, Ieda Lúcia Viana Rosa¹, Elson Longo¹; ¹Universidade Federal de São Carlos
- 11:00 The computational approach as a support tool in the optical and molecular characterization of PTDPV** **P5.E.119**
Wesley Renzi^{1,2}, Thais dos Santos Moraes¹, Edson Laureto¹, Henrique de Santana¹, Marcello Ferreira da Costa¹, Marco Aurélio Toledo da Silva³, José Leonil Duarte¹; ¹Universidade Estadual de Londrina, ²Instituto Federal do Paraná- Campus Pitanga, ³Universidade Tecnológica Federal do Paraná

- 11:00 Monitoring of hydrogen peroxide (H₂O₂) using a colorimetric sensor based on cellulose nanowhiskers/silver nanoparticles hybrid. Monitoring of hydrogen peroxide (H₂O₂) using a colorimetric sensor based on hybrid cellulose nanowhiskers/silver nanoparticles** P5.E.120
Kelcilene Teodoro^{1,2}, Fernanda Lanzoni Migliorini², Wania Aparecida Christinelli², Daniel Souza Corrêa^{1,2}; ¹Universidade Federal de São Carlos, ²Empresa Brasileira de Pesquisa Agropecuária - Embrapa Instrumentação - CNPDia
- 11:00 Structural and Photoluminescent Proprieties of Pr³⁺ Doped α-Ag₂WO₄ synthetized by the Coprecipitation Method** P5.E.121
Caique Leite Correa¹, Ivo Mateus Pinatti¹, Fabio Augusto Pires¹, Priscila Barros De Almeida¹, Ieda Lúcia Viana Rosa¹, Elson Longo¹; ¹Universidade Federal de São Carlos
- 11:00 Pure and Eu³⁺ doped (Bi_{2-x}Eu_x)MoO₆ crystals: structural, morphological and optical studies** P5.E.122
Fabio Augusto Pires¹, Ieda Lúcia Viana Rosa¹, Ivo Mateus Pinatti¹, Priscila Barros De Almeida¹, Caique Leite Correa¹, Elson Longo¹; ¹Universidade Federal de São Carlos

SESSION E. 03 (14:00 - 16:15) - Room Pau Brasil

- 14:00 Carbon Quantum Dots (CQDs) - Lectin: Development of a Sensor to discriminate sugar.** E.O3.1
Alvernes Carneiro Cruz¹, Natália Dantas Gomes de Souza¹, Kyria Santiago Do Nascimento¹, Benildo Sousa Cavada¹, Rafael Melo Freire², Pierre Basílio Almeida Fechine¹; ¹Universidade Federal do Ceará, ²Universidad de Santiago de Chile
- 14:15 Development of a protein identification approach based on fluorescent Carbon Quantum dots.sensor array, proteins, Carbon Dots.** E.O3.2
Alvernes Carneiro Cruz¹, Deise B. froelich², Ari Clesius Alves De Lima³, Rafael Melo Freire⁴, Andre R. Muniz², Odair Pastor Ferreira¹, Pierre Basílio Almeida Fechine¹; ¹Universidade Federal do Ceará, ²Universidade Federal do Rio Grande do Sul, ³Fundação Núcleo de Tecnologia Industrial do Ceará (NUTEC), ⁴Universidad de Santiago de Chile
- 14:30 Rare-earth doped yttrium oxide nanophosphors: promissing temperature sensors and heaters in nanoscale** E.O3.3*
Márcio A. R. Alencar¹, Antônio Carlos Brandão-Silva¹, Geraldo Sobral Jr², Maria Gomes¹, Suellen M. V. Novais¹, Jhon Avila¹, José Joatan Rodrigues Jr.¹, Zelia Soares Macedo¹; ¹Universidade Federal de Sergipe, ²Instituto Federal de Alagoas
- 15:00 Formation of bidimensional CsPbX₃ perovskite nanocrystals using SnX₄ salts as halide precursors** E.O3.4
Luiz Gustavo Bonato¹, Gabriel Nagamine², Raphael Fernando Moral¹, Lazaro A Padilha², Ana Flávia Nogueira¹; ¹Instituto de Química da Unicamp, ²Institute of Physics Gleb Wataghin
- 15:15 Doping effect of optical transitions in WZ GaP Nanowires** E.O3.5
Bruno César da Silva¹, Odilon Divino Damasceno Couto Júnior¹, Monica Alonso Cotta¹, Fernando Iikawa¹; ¹Universidade Estadual de Campinas
- 15:30 Synthesis of TiO₂ nanoparticles by different solgel techniques and characterization of the efficiency of photocatalytic activity** E.O3.6
EDUARDO THADEU RODRIGUES¹; ¹Universidade do Vale do Rio dos Sinos
- 15:45 Magnetic Glasses: Fundamentals and applications** E.O3.7*
Marcelo Nalin¹; ¹Instituto de Química de Araraquara

THURSDAY, SEPTEMBER 20

Poster presentations

SESSION P6 (09:30 - 11:00)

- 09:30 Robust nanofabrication of monolayer MoS₂ islands with strong photoluminescence enhancement via local anodic oxidation** P6.E.28
Thales Fernando Damasceno Fernandes¹, Andreij Gadelha¹, Ana Barboza², Roberto Magalhães Paniago¹, Leonardo C. Campos¹, Pierre Assis³, Paulo Sérgio Soares Guimarães¹, Bernardo Ruegger Almeida Neves¹; ¹Universidade Federal de Minas Gerais, ²Universidade Federal de Ouro Preto, ³Universidade Estadual de Campinas
- 09:30 Photoluminescence spectroscopy as a tool of biaxial strain measurement on strained InGaAsN/GaAs quantum well** P6.E.29
Jonatas da Silva Cavalcante¹, José Brás Barreto de Oliveira¹, Américo Sheitiro Tabata¹; ¹Faculdade de Ciências - UNESP - Campus de Bauru
- 09:30 Preparation and optical properties of luminescent silica material containing Tb³⁺ ion** P6.E.30
Rodrigo Mota Santos¹, Lucas Carvalho Rodrigues², Hermi Felinto Brito², Ana Valéria Santos de Lourenço¹; ¹Universidade Federal de São Paulo, ²Universidade de São Paulo
- 09:30 Probing the Optical-Magnetic Characteristics of NaGdF₄:RE³⁺ and Fe_xO_y/SiO₂/NaGdF₄:RE³⁺ Nanoparticles in Dual Optical Window** P6.E.31
navadeep shrivastava¹, Carlos Jacinto², Carlos Alberto Ospina Ramirez³, Diego Muraca⁴, Anglique Louie⁵, Surender Kumar Sharma¹; ¹Universidade Federal do Maranhão, ²Universidade Federal de Alagoas, ³Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais, Campinas, ⁴Universidade Estadual de Campinas, ⁵Department of Biomedical Engineering, Health Sciences Drive, University of California, Davis, California
- 09:30 New sol-gel synthesis and luminescent properties of nanosized ZnGa₂O₄:Cr³⁺ spinels** P6.E.32
Marlon Nunes da Silva¹, Claudie Bourgaux²; ¹Instituto de Física, Universidade de São Paulo, ²Institut Galien Paris-Sud
- 09:30 Dielectric characterization of photoinduced polymeric PMMA doped with CdTe semiconductor nanocrystals** P6.E.33
Victor Ciro Solano Reynoso¹, Fernando Raul Cuevas²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade Federal de Uberlândia
- 09:30 Efficient Photocatalysis with Biomimetic Hedgehog Supraparticles** P6.E.34
Luiz Fernando Gorup¹, Gleiciane Q. Silveira², Naomi Ramesar², Douglas Montjoy², Siu on Tung², Emerson Camargo³, Nicholas A. Kotov²; ¹Universidade Federal da Grande Dourados, ²University of Michigan, ³Federal University of Sao Carlos
- 09:30 Determination of Two Photon Absorption Coefficients (β) in GaN and GaN-Al Films** P6.E.35
Diego da Silva Manoel¹, Jéssica Dipold¹, Tobias Voss², Marcelo G. Vivas³, Cleber R. Mendonça¹; ¹IFSC, USP, SAO PAULO, ²Braunschweig University of Technology, ³Universidade Federal de Alfenas

- 09:30 Study of ITON annealed with different temperatures for photovoltaic applications** P6.E.36
Roberto Koji Onmori¹, Inès Pereyra¹, Igor Yamamoto Abe¹, Alexandre Lopes¹, Victor Pederzini², Marina Sparvoli²; ¹Universidade de São Paulo, ²Universidade Federal do ABC
- 09:30 Random laser emission in mesoporous Silica SBA-15 doped with Rhodamine-B** P6.E.37
 Fabio Simões de Vicente¹, Carlos Miranda Awano¹, Luis M. G. Abegão², Marcus Vinícius Alves Prado², José Joatan Rodrigues Jr.², Márcio A. R. Alencar²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade Federal de Sergipe
- 09:30 Synthesis of glutamate-based gel-like materials with lanthanide ions** P6.E.38
Eduardo Henrique Lago Falcão¹, Nathalia Pereira S.M. Rios¹, Maria Eduarda G. Valença², Leandro L. dos Santos¹, Leandro A. de Azevedo¹, Roberta C. Neves¹, Severino Alves Júnior¹; ¹Universidade Federal de Pernambuco, ²Universidade Federal Rural de Pernambuco
- 09:30 Study of photocatalytic and photoluminescent properties of ZnMoO4: Tb, Pr** P6.E.39
 Laura Ximena Lovisa¹, Yuri Leandro Rodrigues Lopes Fernandes¹, LAURENIA MARTINS PEREIRA GARCIA¹, Carlos Alberto Paskocimas¹, Elson Longo², Mauricio Bomio¹, Fabiana Villela da Motta¹; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Estadual Paulista Júlio de Mesquita Filho
- 09:30 Preparation of silver nanoparticles incorporated in silica matrix obtained by the sol-gel process** P6.E.40
 Gilmara Gonzaga Pedrosa¹, Paloma Maria Oliveira¹, Sidmar Santos Pereira¹, Ricardo Lima Guimarães¹; ¹Universidade Federal de Pernambuco
- 09:30 Synthesis and characterization of rare earth doped nanostructured CeO₂ pigments** P6.E.41
 Luiziana Aparecida Gonzaga¹, Maria Ines Basso Bernardi², Alexandre Mesquita¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²IFSC, USP, SAO PAULO
- 09:30 Effect of hydrothermal treatment on Dy³⁺-doped strontium molybdate phosphor properties** P6.E.42
ANA PAULA de AZEVEDO MARQUES¹, Renato Mazin Latini¹; ¹Universidade Federal de São Paulo
- 09:30 Spectroscopic study of CdTe-Lectin bioconjugates** P6.E.43
 Camila Caroline Lopes Arruda¹, Denilson de Vasconcelos Freitas¹, Maria Aparecida Barreto Lopes Seabra¹, Daniela M. A. Ferraz Navarro¹, Marcelo Navarro¹; ¹Universidade Federal de Pernambuco
- 09:30 Surface-Enhanced Raman Scattering of bovine whole milk** P6.E.44
Cassiano Batesttin Costa¹, Ricardo Schneider², Maria José Valenzuela Bell¹, Virgílio de Carvalho dos Anjos¹; ¹Universidade Federal de Juiz de Fora, ²Universidade Tecnológica Federal do Paraná
- 09:30 The Calculated Low-Energy Side of the Luminescence Spectrum in ZnSe Semiconductor** P6.E.45
Clóves Gonçalves Rodrigues¹, Roberto Luzzi²; ¹Pontifícia Universidade Católica de Goiás, ²Universidade Estadual de Campinas
- 09:30 Be doped GaAs nanowires grown by self-catalyzed molecular beam epitaxy: structural, optical and electrical properties** P6.E.46
 Marcelo Rizzo Piton¹, Eero Koivusalo², Soile Suomalainen², Teemu Hakkarainen², Sérgio Souto³, Helder Vinicius Avanço Galeti¹, Donald Lupo², Ariano De Giovanni Rodrigues¹, Paulo Sergio Pizani¹, Yara Galvão Gobato¹, Mircea Guina²; ¹Universidade Federal de São Carlos, ²Tampere University of Technology / Tampereen teknillinen yliopisto, ³Universidade de São Paulo

- 09:30 High-Order Nonlinearities of Gold Nanorods with Different Aspect Ratios in the Picosecond Regime** P6.E.47
Nathalia Talita Candido de Oliveira¹, Albert Stevens Reyna Ocas¹, Eduardo Henrique Lago Falcão^{1,2}, Cid B. de Araújo¹; ¹Universidade Federal de Pernambuco, ²Departamento de Química Fundamental
- 09:30 Study of the structural and luminescent properties of Eu₂O₃ doped Calcium Boroaluminate glasses synthesized in a reducing atmosphere** P6.E.48
Bernardo Rurik Aparecido Gomes¹, Marcio José Barboza¹, Alysson Steimacher¹, Franciana Pedrochi¹, Thiago Augusto Lodi²; ¹Universidade Federal do Maranhão, ²Universidade de São Paulo
- 09:30 Synthesis and characterization of luminescent nanostructured semiconductor materials of CaTiO₃ composition: Pr, La, Al** P6.E.49
Guilherme Kubo Ribeiro¹, Alexandre Mesquita¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 09:30 Infrared photoluminescence of Er³⁺ doped BaTiO₃ thin film: A structural and microstructural study** P6.E.50
J. L. Clabel¹, E. Marega Jr.², Sukarno O. F.¹; ¹DF, UFV, Viçosa, ²IFSC, USP, SAO PAULO
- 09:30 Synthesis and deposition of graphene films reduced with nitrogen for applications in photosensitive sensors** P6.E.51
Melyssa Freitas Melo¹, Marina Sparvoli¹; ¹Universidade Federal do ABC
- 09:30 Luminescent calix[4]arene-based coordination polymers for chemosensing of metal ions.** P6.E.52
ILARIA MARTINA SILVA LINS¹, Leonis Lourenço da Luz¹, JOANNA ELZBIETA KULESZA¹, Bráulio Silva Barros¹; ¹Universidade Federal de Pernambuco
- 09:30 Study of Photoinduced Crystallization of CdTe Nanostructures Grown in Si Using Porous Alumina as a Mask** P6.E.53
Thamires Cordeiro Soares¹, Paulo Victor Sciammarella¹, Eduardo Nery Duarte de Araújo¹, Renê Chagas da Silva¹, Luciano Guimarães Moura¹, Sukarno Olavo Ferreira¹; ¹Universidade Federal de Viçosa
- 09:30 Study of the optical and spectroscopy properties of Ce³⁺-doped CaBAI glasses** P6.E.54
Otávio Cândido Neto¹, Franciana Pedrochi¹, Alysson Steimacher¹; ¹Universidade Federal do Maranhão
- 09:30 Effect of shell (CdS, CdSe, ZnS and ZnSe) on optical properties of AgInS₂ Quantum Dots** P6.E.55
Brenand Anjos dos Santos Souza¹, Felipe Leon Nascimento Sousa¹, Denilson de Vasconcelos Freitas¹, Marcelo Navarro¹; ¹Universidade Federal de Pernambuco
- 09:30 Laser characterization and its applications on light scattering diagnostics** P6.E.56
Emmanuela Sternberg¹, Filipe Leoncio Braga¹, Hezylei José Joaquim Francischetto Avelino¹, Soraia Cristina Gonzaga Neves Braga¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo
- 09:30 Study of NiWO₄ powders prepared by polymeric precursor method for application as ceramic pigments** P6.E.57
Naiara Arantes Lima¹, Lorena Dariane da Silva Alencar¹, Máximo Siu Li¹, Carlos Alberto Carneiro Feitosa², Alexandre Mesquita³, Jean-Claude M'Peko¹, Maria Ines Basso Bernardi¹; ¹Universidade de São Paulo, ²Universidade Federal do Maranhão, ³Universidade Estadual Paulista Júlio de Mesquita Filho

- 09:30 Interpreting the two-photon absorption spectrum of Copper Indium Disulfide Quantum dots** **P6.E.58**
George Brian dos Reis¹, Ruben Fonseca Rodriguez², Calink I. L. dos Santos³, Leiriana Aparecida Pinto Gontijo³, Marco Antonio Schiavon³, Leonardo De Boni², Cleber R. Mendonça², Marcelo G. Vivas¹; ¹Universidade Federal de Alfenas, ²IFSC, USP, SAO PAULO, ³Universidade Federal de São João Del Rei
- 09:30 Spectroscopic and morphological studies of pure and Eu³⁺ doped silver molybdate obtained by the coprecipitation methodology** **P6.E.59**
Priscila Barros De Almeida¹, Ieda Lúcia Viana Rosa¹, Ivo Mateus Pinatti¹, Caique Leite Correa¹, Fabio Augusto Pires¹, Elson Longo¹; ¹Universidade Federal de São Carlos
- 09:30 The composition effect and optical properties of electrochemical synthesized CuInS₂-ZnS and CuInS₂-CdS QDs** **P6.E.60**
Richardson Robério Silva¹, Bianca Marques Figueiredo Costa¹, Denilson de Vasconcelos Freitas¹, Felipe Leon Nascimento Sousa¹, Dayane Santos Marques¹, Stterferson Emanuel Silva¹, Anderson De Jesus Caires², Walter Mendes de Azevedo¹, Herman Sander Mansur², Marcelo Navarro¹; ¹Universidade Federal de Pernambuco, ²Universidade Federal de Minas Gerais
- 09:30 Importance of choice of metallic nanostructure for SERS substrate in the selectivity and sensitivity analytical: a 1,4-benzodiazepine study** **P6.E.61**
Isabella Mendes Alves¹, Mariana Ramos Almeida¹; ¹Universidade Federal de Minas Gerais
- 09:30 Surface Plasmon Resonances in Silver Nanostars** **P6.E.62**
Faustino Reyes Gómez¹, rafael Jesus gonçalves Rubira², Sabrina Aléssio Camacho², Cibely Silva Martin², Robson Rosa da Silva³, JORGE RICARDO MEJIA SALAZAR³, Carlos José Leopoldo Constantino², Priscila Alessio Constantino², Osvaldo Novais de Oliveira Jr³; ¹Universidad del Valle, ²FCT-UNESP Campus de Presidente Prudente, ³IFSC, USP, SAO PAULO
- 09:30 Electrochemical generation of type II semiconductor heterojunctions** **P6.E.63**
Dayane Santos Marques¹, Denilson de Vasconcelos Freitas¹, Maria Aparecida Barreto Lopes Seabra¹, Marcelo Navarro¹; ¹Universidade Federal de Pernambuco
- 09:30 Optimizing the Refractive Index Sensitivity and Figure of Merit of Gold Nanostructures: Nanosheres and Nanoshells** **P6.E.64**
Sajid Farooq¹, Renato de Evangelista Araujo²; ¹Universidade de Pernambuco, ²Universidade Federal de Pernambuco
- 09:30 Structural and Optical Characterizations of Nd/Yb:BaY₂O₄Compounds Obtained by the Polymeric Precursor Method** **P6.E.65**
Eduardo Sousa Silva¹, Michelly Patrícia Santana de Almeida Fógia², Gisane Gasparotto¹, Lauro June Queiroz Maia¹; ¹Universidade Federal de Goiás, ²Instituto Federal de Educação, Ciência e Tecnologia de Goiás
- 09:30 Photoluminescent Properties of ZnMoO₄ codoped with rare earth ions obtained from the sleepchemical method** **P6.E.66**
Laura Ximena Lovisa¹, LAURENIA MARTINS PEREIRA GARCIA¹, Elson Longo², Máximo Siu Li³, Mauricio Bomio¹, Fabiana Villela da Motta¹; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Estadual Paulista Júlio de Mesquita Filho, ³Universidade de São Paulo
- 09:30 Interchain analysis in the P3OT photoluminescence properties** **P6.E.67**
Cássio Araújo Nascimento¹, Alexandre Marletta², Edson Ferreira Chagas¹, Romildo Jerônimo Ramos¹, Eralci Moreira Therézio¹; ¹Universidade Federal de Mato Grosso, ²Universidade Federal de Uberlândia

- 09:30 A comparative study based on Optimizing the Figure of merit of Au versus Ag nanoshells** P6.E.68
Hafiz Zeeshan Mahmood¹, Sajid Farooq², Diego Rativa², Emery Lins¹; ¹Universidade Federal de Pernambuco, ²Universidade de Pernambuco
- 09:30 Exploiting the Sensing Efficiency of Bare versus silica coated Au Nanorods** P6.E.69
Hafiz Zeeshan Mahmood¹, Sajid Farooq², Emery Lins¹; ¹Universidade Federal de Pernambuco, ²Universidade de Pernambuco
- 09:30 Effect of Intermediate Phases on Optical Properties of PbI₂-rich CH₃NH₃PbI₃ Organic-Inorganic Hybrid Perovskite** P6.E.70
alonso wollmersheiser sanches¹, Sidney Alves Lourenço¹; ¹Universidade Tecnológica Federal do Paraná
- 09:30 Time-resolved Photoluminescence (TRPL) Spectroscopy – a Macroscopic and Microscopic approach** P6.E.71
Joao Lucas Rangel¹, Igor Carvalho¹, Nassim Rahimi², Eric Teboul², Francis Ndi²; ¹HORIBA INSTRUMENTS BRAZIL LTDA, ²HORIBA INSTRUMENTS INC
- 09:30 Phosphotellurite glass and glass ceramic with high TeO₂ content: thermal, structural and optical investigations** P6.E.72
Danilo Manzani¹, Albert Stevens Reyna Ocas², Manoel Leonardo da Silva Neto², Jessica Edith Quispe Bautista², Paulo Rogério Catarini da Silva³, Sidney José Lima Ribeiro⁴, Cid B. de Araújo²; ¹Instituto de Química de São Carlos, ²Universidade Federal de Pernambuco, ³State University of Londrina, ⁴Instituto de Química de Araraquara
- 09:30 A new SERS substrate based on niobium lead-pyrophosphate glasses obtained by Ag⁺/Na⁺ ion exchange** P6.E.73
Danilo Manzani¹, Douglas Faza Franco², Conrado Ramos Moreira Afonso³, Antônio C. Sant'Ana⁴, Marcelo Nalin², Sidney José Lima Ribeiro²; ¹Instituto de Química de São Carlos, ²Instituto de Química de Araraquara, ³Universidade Federal de São Carlos, ⁴Universidade Federal de Juiz de Fora
- 09:30 Optical, electrical and photoluminescent properties of porous silicon layers with deposition of PANI and Erbium.** P6.E.74
Rosimara Passos Toledo¹, Adhimar Flávio Oliveira¹, Danilo Roque Huanca¹; ¹Universidade Federal de Itajubá
- 09:30 Hyper-Rayleigh scattering from mesoionic compounds** P6.E.75
Renato Barbosa-Silva¹, Maxwell A. M. Nogueira¹, Helivaldo D. S. Souza², Bruno F. Lira², Petronio F. de Athayde-Filho², Cid B. de Araújo¹; ¹Universidade Federal de Pernambuco, ²Universidade Federal da Paraíba
- 09:30 Synthesis of Magnetite/Chitosan/CdTe Nanomaterial and their Application in Fluorescent Magnetic Particle Inspection** P6.E.76
Bruno Bitarães Neto Salgado Brandão¹, Fernando Menegatti de Melo¹, Henrique Damaceno¹, JOSUÉ MARTINS GONÇALVES¹, Henrique E. Toma¹; ¹Universidade Federal de São Paulo
- 09:30 Photoluminescent properties of graphene quantum dots synthesized from the thermalization of citric acid** P6.E.77
Nelson Moreira Andrade Junior¹, Alexandre Mesquita¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 09:30 Synthesis and characterization of luminescent nanostructured semiconductor materials based on CaAl₂O₄.** P6.E.78
Gabriela Maria Rodrigues da Silva¹, Alexandre Mesquita¹, Maria Ines Basso Bernardi²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Instituto de Física, Universidade de São Paulo

- 09:30 Nonlinear optical properties of nanoporous anodic alumina metastructure embedded with silver nanowires** P6.E.79
Manoel Leonardo da Silva Neto¹, Von Ivison Mariano Paulo¹, Albert Stevens Reyna Ocas¹, Jessica Edith Quispe Bautista¹, Eduardo Padrón Hernández¹, Edilson Lucena Falcão-Filho¹, Cid B. de Araújo¹; ¹Universidade Federal de Pernambuco
- 09:30 Synthesis, structural and luminescent characterization of samples of Zn₂SiO₄ doped with nanostructured Mn** P6.E.80
Henrique Reatto Porcel¹, Maria Ines Basso Bernardi², Alexandre Mesquita¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Instituto de Física de São Carlos
- 09:30 Synthesis and characterization of nanostructured semiconductor materials based on Strontium Titanate (SrTiO₃)** P6.E.81
Mauro Andriotti Junior¹, Alexandre Mesquita¹, Maria Ines Basso Bernardi²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Instituto de Física, Universidade de São Paulo
- 09:30 Ultimate Optical Spectroscopy Characterization Techniques for Nanomaterials: AFM-Raman -TERS, NanoRaman & Cathodoluminescence** P6.E.82
Igor Carvalho¹, Marc Chaigneau², Joao Lucas Rangel¹, Jeremy Brites²; ¹HORIBA INSTRUMENTS BRAZIL LTDA, ²HORIBA FRANCE SAS
- 09:30 A comparative study of PEDOT:PSS films post-treated by DMSO using different deposition techniques** P6.E.83
Rafael Misael Vedovatte¹, Carlos Eduardo Cava¹, MATHEUS COLOVATI SACCARDO¹; ¹Universidade Tecnológica Federal do Paraná
- 09:30 Study of the fluorescence intensity ratio of ions Eu³⁺ doped borosilicate for thermometry** P6.E.84
Filippe de Carvalho Bernardino¹, Sidney Alves Lourenço¹, Neusmar Junior Artico Cordeiro²; ¹Universidade Tecnológica Federal do Paraná, ²Universidade Estadual de Londrina
- 09:30 Study of the polyelectrolyte adsorption and of the molecular ordering of polymeric self-assembled films through nonlinear optics** P6.E.85
Sara Dienniff Gonçalves Mariano¹, Heurison Sousa Silva¹; ¹Universidade Federal do Piauí

SYMPOSIUM F - Organic Electronics and Bioelectronics - Frontiers in Basic and Applied Research

Symposium organizers:

Welber Gianini Quirino (UFJF)
Juliana Eccher ((UFSC)
Gregório Couto Faria (USP)
Douglas José Coutinho (UTFPR)
Jesse Quinn (IFSC-USP)

MONDAY, SEPTEMBER 17

Oral presentations

* Invited Lecture

SESSION F. 01 (09:30 - 10:30) - Room Centro de exposição

- 09:30 Thin-Film Dielectrics for Low-Voltage Organic Field-Effect Transistors** **F.O1.1***
Heinz von Seggern¹; ¹Technische Universität Darmstadt
- 10:00 Improvement in charge carrier transport in organic field effect transistors based on nickel phthalocyanine by modification of the gate dielectric/active layer interface** **F.O1.2**
Isidro Cruz Cruz¹, Ivo Alexandre Hümmelgen¹; ¹Universidade Federal do Paraná

Poster presentations

SESSION P1 (11:00 - 12:30)

- 11:00 Solvent influence in luminescent properties of fluorene block copolymer** **P1.F.12**
Alessandra Stacchini Menandro¹, Julia C. Fernandes², Hueder Paulo Moisés de Oliveira², Laura Oliveira Péres¹; ¹Universidade Federal de São Paulo, ²Universidade Federal do ABC
- 11:00 Detection of a New Biomarker for Prostate Cancer** **P1.F.13**
Juliana Coatrini Soares¹, Andrey Coatrini Soares¹, Valquiria Cruz Rodrigues¹, Lidia Maria Rebolho Batista Arantes², Matias Eliseo Melendez², José Humberto Tavares Guerreiro Fregnani², Rui Manuel Reis², André Lopes Carvalho², Osvaldo Novais de Oliveira Jr¹; ¹Instituto de Física de São Carlos, ²Hospital de Câncer de Barretos
- 11:00 Effects of mechanical stress on electrical transport in polyvinyl alcohol/multiwalled carbon nanotubes composites** **P1.F.14**
Andrés Vercik¹, Luci Cristina de Oliveira Vercik¹; ¹Universidade de São Paulo
- 11:00 Nanostructured films as sensing platform made with chitosan and nano carbon: carbon black, Printex 6L carbon and quantum dots** **P1.F.15**
Olivia Carr^{1,2}, Paulo Augusto Raymundo-Pereira³, Flávio Makoto Shimizu^{4,5}, Jorge Augusto de Moura Delezuk⁶, Osvaldo Novais de Oliveira Jr³; ¹Escola de Engenharia de São Carlos, ²Programa de pós graduação em Ciência e Engenharia de Materiais, ³IFSC, USP, SAO PAULO, ⁴Centro Nacional de Pesquisa em Energia e Materiais, ⁵Laboratorio Nacional de Nanotecnologia, ⁶Instituto Federal do Paraná, Campus Irati
- 11:00 Influence of Ir(ppy)₃ addition in polyfluorene based polymers used as emissive layer in PLEDs** **P1.F.16**
Mariane Yuka Tsubaki Oide¹, Herick Garcia Takimoto¹, Emerson Roberto Santos^{2,3}, Satoru Yoshida², Roberto Koji Onmori^{1,2}, Wang Shu Hui¹; ¹Universidade de São Paulo, ²Escola Politécnica de Universidade de São Paulo, ³Faculdade de Tecnologia de São Paulo

- 11:00 Comparison of Cleaning Methods for Anodes Used in Assembly of OLED Devices** P1.F.17
Emerson Roberto Santos¹, Satoru Yoshida¹, Anderson Moreira Nascimento², Mariane Tsubaki Oide¹, Elvo Calixto Burini Junior³, Roberto Koji Onmori¹, Wang Shu Hui¹; ¹Escola Politécnica de Universidade de São Paulo, ²Faculdade de Tecnologia de São Paulo, ³Instituto de Energia e Ambiente
- 11:00 The effects of plasticizer and acid on proton conduction in pectin films studied by AC conductivity and time-domain NMR** P1.F.18
Ritamara Mattos¹, Sérgio Souto¹, Caio Eduardo de Campos Tambelli¹; ¹Faculdade de Zootecnia e Engenharia de Alimentos
- 11:00 Influence of moisture in the proton conduction of Agar films studied by A.C. conductivity and time domain NMR** P1.F.19
Bruna Pavan Callera¹, Ritamara Mattos¹, Sérgio Souto¹, Caio Eduardo de Campos Tambelli¹; ¹Faculdade de Zootecnia e Engenharia de Alimentos
- 11:00 Study and optimization of blue OLEDs structures with transparent electrodes using different emitters for possible biophotonics applications** P1.F.20
Rafael dos Santos Carvalho¹, Alessandra Pereira¹, Giulia Borgui¹, Michele Muccini², Stefano Toffanin², Simon John Garden³, Marco Cremona¹; ¹Pontificia Universidade Católica do Rio de Janeiro, ²Istituto per lo Studio dei Materiali Nanostrutturati, ³Universidade Federal do Rio de Janeiro
- 11:00 White light emitting devices based on PFO:PTDPV blends and energy transfer study** P1.F.21
Thaís dos Santos Moraes¹, Wesley Renzi^{1,2}, Neusmar Junior Artico Cordeiro¹, Edson Laureto¹, José Leonil Duarte¹; ¹Universidade Estadual de Londrina, ²Instituto Federal do Paraná- Campus Pitanga
- 11:00 Synthesis and characterization of thin films based on naphthalenediimides and perylenediimides** P1.F.22
Bruna Tosco¹, José Fernando Queiruga Rey¹, Sergio Brochsztain¹; ¹Universidade Federal do ABC
- 11:00 Printed hybrid Schottky diode based on ZnO and PEDOT:PSS applied as UV sensor** P1.F.23
Douglas Henrique Vieira^{1,2}, Gabriel Leonardo Nogueira¹, Maíza da Silva Ozório¹, Mayk Rodrigues Nascimento², Rogério Miranda Morais¹, Lucas Fugikawa Santos¹, Neri Alves²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²FCT-UNESP Campus de Presidente Prudente
- 11:00 Electric characterization of poly(methyl methacrylate) thin films using the corona triode with constant current** P1.F.24
José Alberto Giacometti¹, Josiani Cristina Stefanelo¹, Roberto Mendonça Faria¹; ¹Instituto de Física de São Carlos
- 11:00 Transport study in an organic bulk heterojunction solar cell with and without DIO additive** P1.F.25
FRANCINEIDE LOPES DE ARAUJO¹, Daniel Roger Bezerra Amorim¹, Douglas José Coutinho², Roberto Mendonça Faria¹; ¹Instituto de Física de São Carlos, ²Universidade Tecnológica Federal do Paraná
- 11:00 Study of conductive films based on CNT/PEDOT:PSS and AgNW by spray coating** P1.F.26
Gabriel Leonardo Nogueira¹, Mayk Rodrigues Nascimento¹, Maykel Santos Klem¹, Rogério Miranda Morais¹, Maíza da Silva Ozório¹, Felipe Barbosa Soares², Sidney Alves Lourenço³, Neri Alves¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade Estadual de Londrina, ³Universidade Tecnológica Federal do Paraná

- 11:00 Solar cell active layer of PCBM:P3HT film: molecular dynamic simulations on interfacial properties** P1.F.27
Ranylson Marcello Leal Savedra¹, Marlene Notelio Borges Luíza de Morais¹, Melissa F. Siqueira Savedra¹; ¹Universidade Federal de Ouro Preto
- 11:00 Ab initio study of the secondary biologic structure on charge transfer systems** P1.F.28
Filipe Camargo Dalmatti Alves Lima¹, Marília J. Caldas², Helena Maria Petrilli²; ¹Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, ²Instituto de Física, Universidade de São Paulo
- 11:00 Advances in the development of electrochemical sensors in nanocellulose** P1.F.29
Robson Rosa da Silva¹, Anderson Massahiro de Campos², Deivy Wilson Masso¹, Paulo Augusto Raymundo-Pereira¹, Hernane da Silva Barud³, Sidney José Lima Ribeiro⁴, Osvaldo Novais de Oliveira Jr¹; ¹Instituto de Física de São Carlos, ²Instituto de Química de São Carlos, ³Centro Universitário de Araraquara, ⁴Instituto de Química de Araraquara
- 11:00 Influence of the deposition method in the properties of electrochromic devices based on PEDOT** P1.F.30
Ana Julia Cavalcante da Silva¹, Adriana Santos Ribeiro¹; ¹Universidade Federal de Alagoas
- 11:00 Tris(2-benzoyl-1-indanonate)aluminum(III) Complexes as Green Emitting Layer in OLEDs** P1.F.31
Israel Ferreira da Costa¹, Tássio Max dos Anjos Martins¹, Jandeilson Lima Moura¹, Rian Esteves Aderne², Harold Camargo Ávila², Wagner Mendonça Faustino¹, Hermi Felinto Brito³, Marco Cremona², Ercules Epaminondas de Sousa Teotonio¹; ¹Universidade Federal da Paraíba, ²Pontificia Universidade Católica do Rio de Janeiro, ³Universidade de São Paulo
- 11:00 Stability of the Ppy-GOx/PEDOT:PSS electrobiosensor through the glucose addition test** P1.F.32
 Jorge Otávio Nunes Teixeira Teixeira¹, Marcus Vinicius David², Julia da Silva Menezes¹, Ana Maria Rocco¹; ¹Tecnologia de Processos Químicos e Bioquímicos - EQ - UFRJ, ²Instituto Nacional de Metrologia, Qualidade e Tecnologia
- 11:00 Conductivity and morphological study of epoxidic solid electrolytes** P1.F.33
Julia da Silva Menezes¹, Alexandre Sucro Moraes Galvão Carvalho¹, Veronica Maria de Araújo Calado¹, Ana Maria Rocco¹; ¹Tecnologia de Processos Químicos e Bioquímicos - EQ - UFRJ
- 11:00 Synthesis and properties of room temperature liquid-crystalline benzo[ghi]perylene diimide** P1.F.34
Marília Gabriela Belarmino Cabral^{1,2}, Deise M. P. O. Santos², Larissa Gomes França³, Ahmed Bentaleb², Elizabeth Hillard², Fabien Durola², Hugo Gallardo³, Juliana Eccher³, Harald Bock², Rodrigo Cristiano¹; ¹Universidade Federal da Paraíba, ²Centre de Recherche Paul-Pascal, University of Bordeaux, ³Universidade Federal de Santa Catarina
- 11:00 Highly efficient and stable boron(III) complexes containing donor groups applied in solution-processed OLEDs** P1.F.35
Cristian Momoli Salla¹, Giliandro Farias¹, Jéssica Teixeira¹, Thiago Cazati², Bernardo de Souza¹, Ivan H. Bechtold¹; ¹Universidade Federal de Santa Catarina, ²Universidade Federal de Ouro Preto
- 11:00 Luminescent and Electrical Properties of Hybrid Materials Formed by Polysiloxanes and Organic Semiconducting Polymers** P1.F.36
 Diego Coelho Sanches Gloria¹, Nirton Cristi Silva Vieira¹, Raquel Aparecida Domingues¹; ¹Universidade Federal de São Paulo

- 11:00 Periodic mesoporous organosilicas containing wall-embedded naphthalenediimide radicals** P1.F.37
Bruna Castanheira¹, Sergio Brochsztain², Antonio Carlos Silva Costa Teixeira¹; ¹Escola Politécnica de Universidade de São Paulo, ²Universidade Federal do ABC
- 11:00 Investigation of processes of charge and energy transfer between two liquid crystalline semiconductors** P1.F.38
Larissa Gomes França¹, Marília Gabriela Belarmino Cabral^{2,3}, Rodrigo Cristiano², Thiago Cazati⁴, Paloma Lays dos Santos⁵, Andrew Paul Monkman⁵, Harald Bock³, Juliana Eccher¹; ¹Universidade Federal de Santa Catarina, ²Universidade Federal da Paraíba, ³Centre de Recherche Paul-Pascal, University of Bordeaux, ⁴Universidade Federal de Ouro Preto, ⁵Durham University
- 11:00 Pressure-induced phase transformation of azithromycin investigated through Raman scattering** P1.F.39
Naiane da Silva Santana¹, Paulo Roberto da Silva Ribeiro², Adenilson Oliveira Santos², Carlos Emídio Sampaio Nogueira³, Gilberto Dantas Saraiva⁴, Sanclayton Geraldo Carneiro Moreira¹, Paulo de Tarso Cavalcante Freire⁵, Francisco Ferreira Sousa¹; ¹Universidade Federal do Pará, ²Universidade Federal do Maranhão, ³Universidade Regional do Cariri, ⁴Universidade Estadual do Ceará, ⁵Universidade Federal do Ceará
- 11:00 Guidelines for optimal OECT operation as learned by fundamental studies on its electrical output characteristics** P1.F.40
Renan Colucci¹, Gregorio Couto Faria¹; ¹Instituto de Física de São Carlos
- 11:00 Effects of mechanical stretches on the properties of conjugated polymers: case study for MEH-PPV and P3HT oligomers** P1.F.41
Juan Carlos Roldao¹, Augusto Batagin-Neto², Francisco Carlos Lavarda², Fernando Sato¹; ¹Universidade Federal de Juiz de Fora, ²Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:00 Electronic structure calculations for the study of polypyrrole-based chemical sensors: evaluation of structural and reactivity properties of new derivatives** P1.F.42
Alex Pifer Coleone¹, Augusto Batagin-Neto¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:00 Electronic structure calculations for the study of polyfuran-based chemical sensors: adsorption studies** P1.F.43
Leonardo Gois Lascane¹, Augusto Batagin-Neto¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:00 Evidences of fluorescent H-aggregates from a non-planar AlOHPc phthalocyanine in solid thin film** P1.F.44
Sergio Fernando Curcio¹, Cassiano Batesttin Costa², Vanessa Mosqueira¹, Bruna Bueno Postacchini¹, Thiago Cazati¹; ¹Universidade Federal de Ouro Preto, ²Universidade Federal de Juiz de Fora
- 11:00 Interaction between Poly(3-hexylthiophene) (P3HT) and oxygen molecules studied by density functional theory (DFT).** P1.F.45
Kêissedy Hübner¹, Lucas Nascimento Giacobbo¹, Marcelo Fernandes¹, Ernesto Osvaldo Wrasse¹, Douglas José Coutinho¹; ¹Universidade Tecnológica Federal do Paraná
- 11:00 Printed hybrid pn heterojunction diode based on ZnO and P3HT** P1.F.46
Maíza da Silva Ozório¹, Mayk Rodrigues Nascimento¹, Gabriel Leonardo Nogueira¹, Douglas Henrique Vieira¹, Neri Alves¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

- 11:00 Effect of illumination intensity and temperature on transport properties in organic solar cells** P1.F.47
Mariana Richelle Pereira da Cunha¹, FRANCINEIDE LOPES DE ARAUJO², Daniel Roger Amorim², Roberto Mendonça Faria²; ¹Universidade de São Paulo, ²Instituto de Física de São Carlos
- 11:00 Improved optical and electrical properties of homeotropically aligned perylene derivative liquid crystals** P1.F.48
 Luiza Spanambeg Silveira de Souza¹, Thiago Cazati², Harald Bock³, Hugo Gallardo¹, Juliana Eccher¹; ¹Universidade Federal de Santa Catarina, ²Universidade Federal de Ouro Preto, ³Centre de Recherche Paul Pascal
- 11:00 Nanostructured films of reduced graphene oxide and gold nanoparticles for methyl parathion sensing** P1.F.49
Gustavo Henrique Sousa Rodrigues¹, Celina Massumi Miyazaki¹, rafael Jesus gonçalves Rubira², Carlos José Leopoldo Constantino³, Marystela Ferreira¹; ¹Universidade Federal de São Carlos, ²FCT-UNESP Campus de Presidente Prudente, ³Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:00 A novel ammonia sensor based on current saturation of polyaniline/indium tin oxide nanocomposite** P1.F.50
Daniel Silva Calheiro¹, Ana Carolina Kelmer¹, Rodrigo Fernando Bianchi¹; ¹Universidade Federal de Ouro Preto
- 11:00 Development of wearable phototherapy device for the treatment of neonatal jaundice.** P1.F.51
Giselle Silveira Lacerda¹, Rodrigo Fernando Bianchi¹; ¹Universidade Federal de Ouro Preto
- 11:00 Synthesis and characterization of conductive coordination polymer and its application in organic light-emitting diodes** P1.F.52
Andreia Morais¹, Douglas Rosa Bernardo², Jilian Nei de Freitas¹, Ana Flávia Nogueira²; ¹Center for Information Technology Renato Archer, ²Universidade Estadual de Campinas
- 11:00 Application of ZnO/nitrogen-doped carbon dots film in organic light emitting diodes** P1.F.53
Andreia Morais¹, Wesley de Souza Rodrigues², José Carlos Germino², Ana Flávia Nogueira², Jilian Nei de Freitas¹; ¹Center for Information Technology Renato Archer, ²Instituto de Química da Unicamp
- 11:00 Acidity characterization of biofilm bacteria growth environment using EGFET** P1.F.54
Paula Simões Casagrande^{1,2}, David Mendez Soares^{1,2}; ¹Universidade Estadual de Campinas, ²Institute of Physics Gleb Wataghin
- 11:00 Characterization and analysis of energy transfer in electrochemically synthesized P3HT films** P1.F.55
Aleffe Bruno Schura¹, Raigna Augusta da Silva Zadra Armond², Henrique de Santana³, Alexandre Marletta², Eralci Moreira Therézio¹; ¹Universidade Federal de Mato Grosso, ²Universidade Federal de Uberlândia, ³Universidade Estadual de Londrina
- 11:00 Thermodynamic behavior of lauric-acid investigated by Raman spectroscopy and DFT calculations** P1.F.56
Gislayllson Dias dos Santos Souza¹, Gardênia de Sousa Pinheiro², Carlos Emídio Sampaio Nogueira³, Alexandre Magno Rodrigues Teixeira³, Gilberto Dantas Saraiva⁴, Paulo de Tarso Cavalcante Freire⁵, Sanclayton Geraldo Carneiro Moreira¹, Francisco Ferreira Sousa¹; ¹Universidade Federal do Pará, ²Universidade Federal do Piauí, ³Universidade Regional do Cariri, ⁴Universidade Estadual do Ceará, ⁵Universidade Federal do Ceará

- 11:00 Highly sensitive flexible ammonia gas sensor based on ultrathin PANI/PVS film** P1.F.57
Ana Carolina Kelmer¹, Daniel Silva Calheiro¹, Wflander Martins Souza¹, Rodrigo Fernando Bianchi¹; ¹Universidade Federal de Ouro Preto
- 11:00 Statistical motivation to the definition of Bond Length Alternation and its generalization** P1.F.58
CARLOS MOREIRA DE MELO NETO¹, ARTHUR AKIRA MAMIYA¹, Demetrio A da Silva Filho¹; ¹Universidade de Brasília
- 11:00 Urease incorporated in hybrid langmuir-blodgett films of di-ureasil derivatives and stearic acid** P1.F.59
Caio Vinícius Teles Rossini¹, Celso Molina¹, Luciano Caseli¹; ¹Universidade Federal de São Paulo
- 11:00 QLEDs using transition metal oxide nanoparticles as electron injection layer** P1.F.60
Wallison Chaves Costa¹, Cristian Momoli Salla¹, Agatha Matsumoto², Ivan H. Bechtold¹, Fernando Ely²; ¹Physics Department, Federal University of Santa Catarina, Florianopolis, Brazil, ²IC Packaging Lab., CTI Renato Archer, 13069-901, Campinas, Brazil
- 11:00 Organic solar cells manufactured on packaging cardboard** P1.F.61
Idomeneu Gomes de Souza Filho^{1,2}, Elvira Maria Correia Fortunato³, Rodrigo Ferrão de Paiva Martins³, Roberto Mendonça Faria²; ¹Escola de Engenharia de São Carlos, ²Instituto de Física de São Carlos, ³Department of Materials Science< FCT, Universidade Nova de Lisboa
- 11:00 Organic magnetoresistance on polybithiophene devices** P1.F.62
Ana Cristina de Paula¹, José Pedro Mansueto Serbena¹; ¹Universidade Federal do Paraná
- 11:00 Rolled-up nanomembrane-based capacitors for evaluating the dielectric properties of organic and hybrid thin films** P1.F.63
Ricardo Magno Lopes Silva^{1,2}, Paula Andreia Petrini³, Rafael Furlan de Oliveira², Leandro Mercês^{3,2}, Carlos Cesar Bof Bufon²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Centro Nacional de Pesquisa em Energia e Materiais, ³Universidade Estadual de Campinas
- 11:00 New Insights on the Vibronic Transitions in The Free Base Meso-tetrapyrrolyl Porphyrin** P1.F.64
Jefferson Marcio Sanches Lopes¹, Renato Neiva Sampaio², Amando Siuiti Ito³, Antônio Eduardo Hora Machado⁴, Alzir Azevedo Batista⁵, Paulo Antonio Trindade Araujo⁶, Newton Martins Barbosa Neto¹; ¹Universidade Federal do Pará, ²University of North Carolina Chapel Hill, ³Universidade de São Paulo, ⁴Universidade Federal de Uberlândia, ⁵Universidade Federal de São Carlos, ⁶University of Alabama
- 11:00 Kinetic study of photodegradation of MEH-PPV polymer by real-time UV-visible spectroscopy** P1.F.65
Michelle Leifeld Raicoski¹, Marcelo G. Vivas¹; ¹Universidade Federal de Alfenas
- 11:00 Time-dependent DFT and HF calculations of the electronic structure for a DPP derivative in liquid media** P1.F.66
Luis O. Araújo¹, Rafael C. Barreto¹, João B. Floriano¹, Paula C. Rodrigues¹, Alfredo Leithold Neto¹, Lucas Scalon¹; ¹Universidade Tecnológica Federal do Paraná
- 11:00 Synthesis and characterization of MnO₂ incorporated in BNC/PPy.CuCl₂ membranes for supercapacitors** P1.F.67
Gabriella Melo Viana Dias¹, Daliana Muller¹, Bruno Neckel Wesling¹, Dachamir Hotza¹, Carlos Renato Rambo¹; ¹Universidade Federal de Santa Catarina
- 11:00 Polythiophene doping with phosphomolybdic acid (PMA)** P1.F.68
Keli Fabiana Seidel^{1,2}, Andreas Opitz², Norbert Koch²; ¹Universidade Tecnológica Federal do Paraná, ²Humboldt Universität zu Berlin

- 11:00 Seebeck coefficient determination in vertical architecture organic thermoelectric devices based on sulfonated polyaniline** P1.F.69
Marcelo Henrique Pentead¹, Ivo Alexandre Hümmelgen¹; ¹Universidade Federal do Paraná
- 11:00 Interaction of Aluminum Hydroxide Phthalocyanine with functionalized multi-wall carbon nanotubes in ethylic solution: A fluorescence quenching study** P1.F.70
 Sergio Fernando Curcio¹, Jonnathan Fernando de Oliveira Duarte¹, Bruna Postacchini¹, Luiz Orlando Ladeira², Jaqueline Soares¹, Thiago Cazati¹; ¹Universidade Federal de Ouro Preto, ²Universidade Federal de Minas Gerais
- 11:00 Nanomembranes & Molecular Ensembles: A “bottom-up” approach to bring the nano- and the molecular electronics together** P1.F.71
Leandro Merc^{1,2}, Rafael Furlan de Oliveira², Davi Henrique Starnini de Camargo², Carlos Cesar Bof Bufon²; ¹Universidade Estadual de Campinas, ²Centro Nacional de Pesquisa em Energia e Materiais
- 11:00 Phase transformations of the B_m form of octadecanoic acid under high pressures studied through Raman scattering** P1.F.72
Adrya Jakellyne Paulo Cordeiro¹, Waldomiro Gomes Paschoal Junior¹, Sanclayton Geraldo Carneiro Moreira¹, Waldeci Paraguassu¹, Paulo de Tarso Cavalcante Freire², Gilberto Dantas Saraiva³, Francisco Ferreira Sousa¹; ¹Universidade Federal do Pará, ²Universidade Federal do Ceará, ³Universidade Estadual do Ceará
- 11:00 Gold nanoparticles into a discotic liquid crystalline matrix** P1.F.73
Michele Duarte Tonet¹, Greice Kelly Bezerra Costa Fontes², Isabel C. S. Carvalho³, Harald Bock⁴, Juliana Eccher¹; ¹Universidade Federal de Santa Catarina, ²Universidade Federal Rural do Rio de Janeiro, ³Pontifícia Universidade Católica do Rio de Janeiro, ⁴Centre de Recherche Paul-Pascal, University of Bordeaux
- 11:00 Synthesis and characterization of reduced and sulfated graphene oxide for application as hole transporting layer in organic photovoltaic devices** P1.F.74
Nayton Claudinei Vicentini¹, Alessandro Henrique Lima¹, Giovanni Romeu Carvalho¹, Janaína Luíza Cristino Lucas¹, Bruno Randal de Oliveira¹, Indhira Oliveira Maciel¹, Benjamin Fagneaud¹, Cristiano Legnani¹, Welber Gianini Quirino¹; ¹Universidade Federal de Juiz de Fora
- 11:00 Stability of [bis(L-alaninato) diaqua] nickel(II) dehydrate crystal under pressures up to ~25 GPa** P1.F.75
Elaine Cristina Gama Palheta¹, Adenilson Oliveira dos Santos², Carlos Emídio Sampaio Nogueira³, Paulo de Tarso Cavalcante Freire⁴, Fábio Machado Ardito⁵, Sanclayton Geraldo Carneiro Moreira¹, Waldomiro Gomes Paschoal Junior¹, Francisco Ferreira Sousa¹; ¹Universidade Federal do Pará, ²Universidade Federal do Maranhão, ³Universidade Regional do Cariri, ⁴Universidade Federal do Ceará, ⁵Brazilian Synchrotron Light Laboratory
- 11:00 Characterization of P3HT:CoPc Blends for applications in photovoltaic devices** P1.F.76
Diego Fernando Silva Sousa¹, Marta Elisa Rosso Dotto¹, Petru Apostol², Harald Bock², Ivan H. Bechtold¹; ¹Universidade Federal de Santa Catarina, ²Centre de Recherche Paul Pascal
- 11:00 Development and characterization of nanomembrane-based electrochemical cells** P1.F.77
Letícia Mariê Minatogau Ferro^{1,2}, Luís Otávio Zapparoli Falsetti^{3,1}, Anerise de Barros⁴, Carlos Cesar Bof Bufon¹; ¹Centro Nacional de Pesquisa em Energia e Materiais, ²Instituto de Química da Unicamp, ³Universidade Federal de São Carlos, ⁴University of Texas at Dallas

- 11:00 Controlling the electronic properties of Ferrocene modified with organic radicals and peptides.** P1.F.78
Luana Cristina Italiano Faria¹, Filipe Camargo Dalmatti Alves Lima¹; ¹Instituto Federal de Educação, Ciência e Tecnologia de São Paulo
- 11:00 Columnar Liquid Crystal Doped With Gold Nanorods** P1.F.79
Carlos Henrique Stadlober¹, Greice Costa², Isabel C. S. Carvalho³, Harald Bock⁴, Juliana Eccher¹; ¹Universidade Federal de Santa Catarina, ²Universidade Federal Rural do Rio de Janeiro, ³Pontifícia Universidade Católica do Rio de Janeiro, ⁴Centre de Recherche Paul-Pascal, University of Bordeaux
- 11:00 Characterization of graphene based surfaces** P1.F.80
Natália Sampaio Rosa e Silva¹, Alessandro Henrique Lima², Welber Gianini Quirino², Marta Elisa Rosso Dotto¹; ¹Universidade Federal de Santa Catarina, ²Universidade Federal de Juiz de Fora
- 11:00 Synthesis and Characterization of N-Type Nitrogen Doped Reduced Graphene Oxide for Organic Electronic Applications** P1.F.81
Janaína Luíza Cristino Lucas¹, Alessandro Henrique Lima¹, Bruno Randal de Oliveira¹, Giovanni Romeu Carvalho¹, Nayton Claudinei Vicentini¹, Cristiano Legnani¹, Indhira Oliveira Maciel¹, Benjamin Fragneaud¹, Welber Gianini Quirino¹; ¹Universidade Federal de Juiz de Fora
- 11:00 Comparative performance evaluation of encapsulated bromocresol purple: effect of the matrix** P1.F.82
Matheus Costa Cichero¹, João Henrique Zimnoch Dos Santos¹; ¹Universidade Federal do Rio Grande do Sul
- 11:00 P3HT-based polymeric batteries** P1.F.83
Henrique Frulani de Paula Barbosa¹, Gregorio Couto Faria¹; ¹Universidade de São Paulo
- 11:00 Study of the stability of dispersed colloidal nanosilicates in lamellar phases** P1.F.84
Girlane Castro Costa Leite¹, Elisabeth Andreoli de Oliveira², Geraldo José da Silva¹; ¹Universidade de Brasília, ²Instituto de Física, Universidade de São Paulo
- 11:00 Graphene oxide aerogel as cathode in new thin film Al³⁺ ion batteries containing the ionic liquid [BMIM][Cl]** P1.F.85
Giovanni Romeu Carvalho¹, Pedro Henrique Fazza Stroppa¹, Alessandro Henrique Lima¹, Bruno Randal de Oliveira¹, Nayton Claudinei Vicentini¹, Cristiano Legnani¹, Indhira Oliveira Maciel¹, Benjamin Fragneaud¹, Adilson David da Silva¹, Welber Gianini Quirino¹; ¹Universidade Federal de Juiz de Fora
- 11:00 Traditional conjugated polymer as efficient mixed conductors for high-performing electrochemical transistors** P1.F.86
Priscila Cavassin¹, Gregorio Couto Faria¹; ¹Instituto de Física de São Carlos
- 11:00 PEDOT:PSS/PEI membranes applied for solar-driven water-splitting application** P1.F.87
Rafael Francisco Santiago de Souza¹, Gregorio Couto Faria¹; ¹Instituto de Física de São Carlos
- 11:00 Synthesis and characterization of new derivatives of poly(ether imide) from acylation of Friedel-Crafts** P1.F.88
Nicolas Oliveira Decarli¹, Leandro Espíndola¹, Thiago Ferreira da Conceição¹; ¹Universidade Federal de Santa Catarina
- 11:00 Electrochemical modifications of Poly(arylamines) and poly(phenylenes): Toward a Relationship between Molecular Structure Modifications and Charge Generation** P1.F.89
Guy LOUARN¹, Henrique de Santana², Laura Oliveira Péres³; ¹Institut des Matériaux de NANTES, ²Universidade Estadual de Londrina, ³Universidade Federal de São Paulo

SESSION F. 03 (14:00 - 16:15) - Room Centro de exposição

- 14:00 Towards high efficiency organic room temperature phosphorescence OLEDs: modulating the excited state depopulation pathway through host tuning** **F.O3.1***
Przemyslaw Data^{1,2,3}, Heather Cole¹, Youhei Takeda⁴; ¹Durham University, ²Silesian University of Technology, ³Centre of Polymer and Carbon Materials, ⁴Osaka University, Japan
- 14:30 Block copolymers for organic photovoltaics** **F.O3.2**
Roger C Hiorns¹; ¹CNRS/Université de Pau
- 14:45 Dynamics of charge distributions and emission zone in sandwich light-emitting electrochemical cells** **F.O3.3**
Roland Hany¹, Andrius Devizis², Sandra Jenatsch³, Maciej Kawecki¹, Quirin Grossmann¹, Matthias Diethelm¹; ¹Swiss Federal Institute for Materials Science and Technology, ²State Research Institute Center for Physical Sciences and Technology, ³Fluxim AG
- 15:00 Thermally assisted delayed fluorescence (TADF) and room temperature organic phosphorescence in sterically-constrained donor–acceptor charge-transfer molecules** **F.O3.4**
Roberto Shigueru Nobuyasu¹, Fernando B. Dias¹; ¹Durham University
- 15:15 All-solution OLEDs based on copper complexes with TADF mechanism** **F.O3.5**
Cristian Momoli Salla¹, Giliandro Farias², Bernardo de Souza², Thiago Cazati³, Paloma Lays dos Santos⁴, Andrew Paul Monkman⁴, Ivan H. Bechtold²; ¹Universidade Federal de Santa Catarina, ²Federal University of Santa Catarina, ³Universidade Federal de Ouro Preto, ⁴Durham University
- 15:30 Potassium functionalized Graphene Oxide for applications as electron transporting layers in organic photovoltaic devices** **F.O3.6**
Bruno Randal de Oliveira¹, Alessandro Henrique Lima¹, João Paulo Almeida de Mendonça¹, Nayton Claudinei Vicentini¹, Giovanni Romeu Carvalho¹, Janaísa Luíza Cristino Lucas¹, Fernando Sato¹, Indhira Oliveira Maciel¹, Benjamin Fragneaud¹, Cristiano Legnani¹, Welber Gianini Quirino¹; ¹Universidade Federal de Juiz de Fora
- 15:45 Optical-Electronic Properties of PFO:Zn(II)Salicylidenes – The Role of Charge Mobility** **F.O3.7**
José Carlos Germino¹, Luís Gustavo Teixeira Alves Duarte¹, RODRIGO ARAUJO MENDES², Marcelo Meira Faleiros¹, Raquel Aparecida Domingues³, Jilian Nei de Freitas⁴, Teresa Dib Zambon Atvars¹; ¹Universidade Estadual de Campinas, ²Universidade de São Paulo, ³Universidade Federal de São Paulo, ⁴Center for Information Technology Renato Archer
- 16:00 A novel and versatile benzothiazole-salophen derivative: from the development of a fluorescent probe to the assemble of organic light-emitting diodes** **F.O3.8**
Luís Gustavo Teixeira Alves Duarte¹, José Carlos Germino¹, Jônatas Faleiro Berbigier², Cristina Aparecida Barboza³, RODRIGO ARAUJO MENDES⁴, Jonathas Paula Siqueira⁴, Felipe Lange Coelho², Marcelo Meira Faleiros¹, Cleber R. Mendonça⁴, Fabiano Severo Rodembusch², Teresa Dib Zambon Atvars¹; ¹Instituto de Química da Unicamp, ²Universidade Federal do Rio Grande do Sul, ³Polish Academy of Sciences, ⁴IFSC, USP, SAO PAULO

TUESDAY, SEPTEMBER 18

Oral presentations

* Invited Lecture

SESSION F. 01 (09:30 - 10:30) - Room Centro de exposição

- 09:30 Advanced characterisation methods for complex organic electronic thin films down to the nanoscale** F.O1.1*
Fernando A. Castro¹; ¹National Physical Laboratory
- 10:00 A Universal Platform for Fabricating Organic Electrochemical Devices** F.O1.2
Priscila Cavassin¹, Renan Colucci¹, Yaakov Tuchman², Duc Trong Duong², Alberto Salleo², Gregorio Couto Faria¹; ¹Instituto de Física de São Carlos, ²Stanford University
- 10:15 Synthesis and characterization of nitrogen doped graphene oxide quantum dots for organic electronic applications** F.O1.3
Alessandro Henrique Lima¹, Pedro Henrique Fazza Stroppa¹, Adilson David da Silva¹, Indhira Oliveira Maciel¹, Benjamin Fragneaud¹, Cristiano Legnani¹, Welber Gianini Quirino¹; ¹Universidade Federal de Juiz de Fora

SESSION F. 02 (11:00 - 12:00) - Room Centro de exposição

- 11:00 Photoinduced Aggregation and Permanent Polaron Formation in Regioregular Poly(3-hexylthiophene)** F.O2.1
Newton Martins Barbosa Neto¹, Marcia Dutra Ramos Silva², Paulo Antonio Trindade Araujo³, Renato Neiva Sampaio⁴; ¹Universidade Federal do Pará, ²Universidade Federal de Uberlândia, ³University of Alabama, ⁴University of North Carolina Chapel Hill
- 11:15 Synthesis and characterization of P3HT:PCBM nanoparticles for application in organic photovoltaics (OPVs)** F.O2.2
Nathália Akemi Yoshioka¹, Thales Alves Faraco¹, Hernane da Silva Barud², Sidney José Lima Ribeiro³, Marco Cremona⁴, Benjamin Fragneaud¹, Indhira Oliveira Maciel¹, Welber Gianini Quirino¹, Cristiano Legnani¹; ¹Universidade Federal de Juiz de Fora, ²Centro Universitário de Araraquara, ³Instituto de Química de Araraquara, ⁴Pontifícia Universidade Católica do Rio de Janeiro
- 11:30 Transition metal oxide quantum dots as selective injection layers for colloidal lead-halide perovskite QLEDs** F.O2.3
Fernando Ely¹, Rene Alfonso Nome², Cristian Momoli Salla³, Ivan H. Bechtold⁴; ¹Center for Information Technology Renato Archer, ²Instituto de Química da Unicamp, ³Universidade Federal de Santa Catarina, ⁴Federal University of Santa Catarina

SESSION F. 03 (14:00 - 16:15) - Room Centro de exposição

- 14:00 Tunable organic 'phosphors' for white light devices and visible light communications** F.O3.1*
Peter J. Skabara¹; ¹School of Chemistry, University of Glasgow, UK

- 14:30 Development and characterization of organic light-emitting transistors (OLETs) based on conjugated small molecules using host-guest systems as emissive layer** **F.O3.2**
Arthur Rodrigues Jardim Barreto¹, Rafael dos Santos Carvalho¹, Harold Jose Camargo Avila¹, Emilia Benvenuti², Stefano Toffanin², Michele Muccini², Beatriz Vilela de Moura¹, Marco Cremona¹; ¹Pontificia Universidade Católica do Rio de Janeiro, ²Istituto per lo Studio dei Materiali Nanostrutturati
- 14:45 Electrochemical sensor of graphene and molecularly imprinted polypyrrol for Acid ascorbic evaluation** **F.O3.3**
Jéssica Menezes de Mélo Luzardo^{1,2}, Sanair Massafra de Oliveira^{1,2}, Letícia Alves da Silva¹, Carlos Alberto Achete², Renata Simao¹, Joyce Rodrigues Araujo²; ¹Universidade Federal do Rio de Janeiro, ²Instituto Nacional de Metrologia, Qualidade e Tecnologia
- 15:00 PEDOT nanotubes electrochemically synthesized applied in supercapacitors development and electrocatalysis** **F.O3.4**
Bruna M. Hryniewicz¹, Marcio Vidotti¹; ¹Universidade Federal do Paraná
- 15:15 Analytical and experimental analysis of recombination mechanisms in bulk heterojunction solar cells** **F.O3.5**
Daniel Roger Bezerra Amorim¹, FRANCINEIDE LOPES DE ARAUJO¹, Douglas José Coutinho², Roberto Mendonça Faria^{3,1}; ¹Instituto de Física de São Carlos, ²Universidade Tecnológica Federal do Paraná, ³Universidade de São Paulo
- 15:30 Nanoscale Variable-Area Transport Junctions: From electronic transport to hyper-sensitive pressure sensing** **F.O3.6**
Leandro Mercês^{1,2}, Rafael Furlan de Oliveira², Carlos Cesar Bof Bufon²; ¹Universidade Estadual de Campinas, ²Centro Nacional de Pesquisa em Energia e Materiais

WEDNESDAY, SEPTEMBER 19

Oral presentations

* Invited Lecture

SESSION F. 01 (09:30 - 10:30) - Room Centro de exposição

- 09:30 Low temperature synthesis of graphene nanoribbons using liquid carbon precursor and its applications in organic electronic** **F.O1.1**
Danilo Oliveira Franco¹, Indhira Oliveira Maciel¹, Welber Gianini Quirino¹, Cristiano Legnani¹, Benjamin Fragneaud¹; ¹Universidade Federal de Juiz de Fora
- 09:45 Optimization of Gallium-doped Zinc Oxide thin films for organic electronics applications** **F.O1.2**
Rodrigo Gomes Costa¹, Hállice de Xavier Oliveira Silva¹, Welber Gianini Quirino¹, Benjamin Fragneaud¹, Indhira Oliveira Maciel¹, Cristiano Legnani¹; ¹Universidade Federal de Juiz de Fora
- 10:00 Acylhydrazone liquid crystals: effect of the core expansion over the liquid crystalline and photoisomerization properties** **F.O1.3**
Eduard Westphal¹, Wilson Aparecido de Oliveira¹; ¹Universidade Tecnológica Federal do Paraná

SESSION F. 02 (11:00 - 12:00) - Room Centro de exposição

- 11:00 Nanostructured layer-by-layer films composed by polyelectrolytes and gold nanoparticles–antibody complex for prostate-specific antigen detection** F.O2.1
Douglas Eleutério Camilo¹, Celina Massumi Miyazaki¹, Flávio Makoto Shimizu², Marystela Ferreira¹; ¹Universidade Federal de São Carlos, ²Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais, Campinas
- 11:15 Manipulating the architecture of asparaginase confined in lipid Langmuir-Blodgett for bioelectronics** F.O2.2
Carlos da Rocha Junior¹, Luiz Henrique Rodrigues Rola Possarle¹, Luciano Caseli¹; ¹Universidade Federal de São Paulo
- 11:30 Lab-on-a-Disc platform for immunosensing based on surface-plasmon resonance detection by a smartphone camera** F.O2.3
Celina Massumi Miyazaki¹, David K. Kinahan², Rohit Mishra², Marystela Ferreira¹, Jens Ducreé²; ¹Universidade Federal de São Carlos, ²Dublin City University

SESSION F. 03 (14:00 - 16:15) - Room Centro de exposição

- 14:00 Langmuir and Langmuir-Blodgett films of stearic acid containing phenylalanine dehydrogenase for phenylalanine sensors.** F.O3.1
Rafael Leonardo Cruz Gomes Silva Silva¹, Luciano Caseli¹; ¹Universidade Federal de São Paulo
- 14:15 Synergism between CNT and EPS on the enzymatic activity of urease in dioctadecyldimethylammonium bromide LB films for urea detection** F.O3.2
Raul Torres Rodrigues¹, Paulo Moraes², Cristina Freire Nordi¹, Michael J. Schöning³, José Siqueira Júnior², Luciano Caseli¹; ¹Universidade Federal de São Paulo, ²Universidade Federal do Triângulo Mineiro, ³Aachen University of Applied Sciences
- 14:30 Electrochemical biosensor for Saxitoxin detection** F.O3.3
PABLO CESAR SERRANO ARAMBULO¹, Gisele Elias Nunes Pauli¹, Ivan H. Bechtold²; ¹Physics Department, Federal University of Santa Catarina, Florianopolis, Brazil, ²Federal University of Santa Catarina
- 14:45 Probing Charge Density in Organic Transistors by Charge Modulation Microscopy (CMM)** F.O3.4
Douglas José Correia Gomes¹, Giuseppina Pace², Mario Caironi², Paulo Barbeitas Miranda¹; ¹Instituto de Física de São Carlos, ²Center for Nano Science and Technology, Istituto Italiano di Tecnologia
- 15:00 Organic photovoltaic devices using graphene-ITO electrodes** F.O3.5
Letícia Alves da Silva^{1,2}, Rogerio Valaski², Carlos Alberto Achete², Joyce Rodrigues Araujo²; ¹Universidade Federal do Rio de Janeiro, ²Instituto Nacional de Metrologia, Qualidade e Tecnologia
- 15:15 Charge transport dynamics and bimolecular recombination organic in bulk heterojunction solar cells** F.O3.6
Daniel Roger Amorim¹, FRANCINEIDE LOPES DE ARAUJO², Mariana Richelle Pereira da Cunha², Douglas José Coutinho³, Paulo Barbeitas Miranda¹, Roberto Mendonça Faria²; ¹Instituto de Física de São Carlos, ²Universidade de São Paulo, ³Universidade Tecnológica Federal do Paraná
- 15:30 Charge Photogeneration and Recombination in multi layered Light Harvesting Capacitors** F.O3.7
JOAQUIM BRASIL FILHO¹, Paulo Barbeitas Miranda¹; ¹Instituto de Física de São Carlos

SYMPOSIUM G - Structural, optical and electronic properties of the metal-oxide nanostructures

Symposium organizers:

Daniela Nunes (Universidade Nova de Lisboa - Faculdade de Ciências e Tecnologia)

Ana Machado (Universidade Nova de Lisboa - Faculdade de Ciências e Tecnologia, Portugal)

Patrícia Carvalho (SINTEF)

Alexandre Cunha (Instituto SENAI de Inovação em Processamento a Laser, Instituto da Indústria)

MONDAY, SEPTEMBER 17

Oral presentations

* Invited Lecture

SESSION G. 01 (09:30 - 10:30) - Room Flamboyant 2

- 09:30 Materials and the Challenges of the Future** **G.O1.1***
Rodrigo Ferrão Martins¹, Elvira Maria Correia Fortunato¹; ¹Department of Materials Science < FCT, Universidade Nova de Lisboa
- 10:00 Development and applications of high performance reproducible thin-film transistors using airbrush spray-pyrolysis** **G.O1.2**
João Paulo Braga¹, Guilherme Rodrigues de Lima¹, Giovani Gozzi¹, Lucas Fugikawa Santos¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 10:15 Thermal activation of the luminescent properties of terbium-doped ITO thin films** **G.O1.3**
Paul Llontop¹, Alvaro Tejada Esteves^{1,2}, Carlos Enrique Torres¹, María Mejía¹, Jorge Alejandro Dulanto Carbajal¹, Luis Conde¹, Francisco Rumiche¹, Jan Amaru Palomino Töfflinger¹, Rolf Grieseler¹, Jorge Andres Guerra Torres¹; ¹Pontificia Universidad Católica del Perú, ²Helmholtz-Zentrum Berlin

Poster presentations

SESSION P1 (11:00 - 12:30)

- 11:00 Synthesis and characterization of CuFeS₂ particles by conventional hydrothermal and microwave-assisted hydrothermal methods** **P1.G.90**
Edson Luiz Foletto¹, Júlia da Silveira Salla¹, Edson Irineu Muller¹, Michele Stéfani Peters Enders¹, Erico Marlon Moraes Flores¹; ¹Universidade Federal de Santa Maria
- 11:00 Synthesis of porous Zn₂SnO₄ by hydrothermal method using chitin as a carbonaceous template** **P1.G.91**
Edson Luiz Foletto¹, Siara Silvestri¹, Jivago Schumacher Oliveira¹; ¹Universidade Federal de Santa Maria
- 11:00 Gas sensing performance of electrospun ceramic nanofibers decorated with graphene oxide** **P1.G.92**
Rafaela Silveira Andre¹, Luíza Amim Mercante¹, Jessica Pereira², Luiz Henrique Capparelli Mattoso¹, Daniel Souza Corrêa¹; ¹Empresa Brasileira de Pesquisa Agropecuária - Embrapa Instrumentação - CNPDia, ²Universidade de São Paulo
- 11:00 Synthesis of Zn:xCe by sonochemical Method with photocatalytic property** **P1.G.93**
Yara Feliciano Gomes¹, Joyce Silva¹, Débora Ferreira dos Santos¹, Mauricio Roberto Bomio Delmonte¹, Carlos Alberto Paskocimas¹, Fabiana Villela da Motta¹; ¹Universidade Federal do Rio Grande do Norte
- 11:00 Synthesis and characterization of tin oxide nanoparticles** **P1.G.94**
Juliana Silva Dias¹, Rebeca Bacani¹, Eduardo Rezende Triboni¹; ¹Universidade de São Paulo

- 11:00 Magnetic and Structural Properties of Nd doped NBT Multiferroic Ceramics** **P1.G.95**
Emanoel Laurertan Tavares Emanoel Laurertan¹, Danilo Roberto Ratkovski¹, Otávio José Bandeira Otavio¹, Pedro Victor Valadares Romanholo², Adolfo Franco Júnior², Fernando Luis de Araujo Machado¹; ¹Universidade Federal de Pernambuco, ²Universidade Federal de Goiás
- 11:00 Influence of hydrothermal route conditions at 1D sodium niobate morphology** **P1.G.96**
Beatriz Rodrigues Canabarro¹, PAULA MENDES JARDIM¹; ¹Universidade Federal do Rio de Janeiro
- 11:00 Influence of heat treatment on hydroxyapatite and silver vanadate composites** **P1.G.97**
Jussara Soares da Silva¹, Elson Longo¹; ¹Universidade Federal de São Carlos
- 11:00 Synthesis and characterization of WO₃/Ag nanostructures synthesized by the hydrothermal method.** **P1.G.98**
Regina Aparecida Capeli da Silva¹, Felon Martinho Pontes², Adenilson José Chiquito³, Elson Longo⁴, Luis Fernando Lopes², Larissa Oliveira Garcia¹, Debora Silva Pontes²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Faculdade de Ciências - UNESP - Campus de Bauru, ³Universidade Federal de São Carlos, ⁴Instituto de Química de Araraquara
- 11:00 Potocatalytic activity and characterization study of synthesized NiO nanostructures via Hydrothermal route** **P1.G.99**
Larissa Oliveira Garcia¹, Felon Martinho Pontes¹, Regina Aparecida Capeli¹, Elson Longo²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade Federal de São Carlos
- 11:00 Catalytic Potential of Gold Doped Titanium Oxide Nanoparticles** **P1.G.100**
Arthur Martins Gabriel¹, Gustavo Costa Pereira¹, Karla Silva Malaquias¹, Fernando Henrique Cristovan¹, Tatiane Moraes Arantes¹; ¹Universidade Federal de Jataí
- 11:00 Synthesis and Characterization ZrO₂ nanoparticles modified with Au or Ag nanoparticles and study of catalytic activity** **P1.G.101**
Gustavo Costa Pereira¹, Arthur Martins Gabriel¹, Julio Cesar Jeronimo Barbosa¹, Karla Silva Malaquias¹, Fernando Henrique Cristovan¹, Tatiane Moraes Arantes¹; ¹Universidade Federal de Jataí
- 11:00 Field assisted crystallization of TiO₂ nanotubes thin films** **P1.G.102**
Leonardo Felipe Lima Santos Dos Santos¹, Thalles Thadeu Assunção Lucas¹, Jean-Claude M'Peko¹, João Elias Figueiredo Soares Rodrigues², Renato Vitalino Gonçalves¹; ¹Universidade de São Paulo, ²Universidade Federal de São Carlos
- 11:00 Investigation of rare-earth oxides on beach sand by Infrared Spectroscopy** **P1.G.103**
Emmanuela Sternberg¹, Diego de Oliveira Pezzin¹, Filipe Leoncio Braga¹, Soraia Cristina Gonzaga Neves Braga¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo
- 11:00 Discovering the influence of the different interactions between Co and mesoporous silica with high efficiency in organic pollutants degradation** **P1.G.104**
Iza Fonte Boa Silva¹, Natália Rodrigues Marques Sturt¹, Marcelo Gonçalves Rosmaninho², Flavia Cristina Camilo Moura¹; ¹Universidade Federal de Minas Gerais, ²Universidade Federal de Ouro Preto
- 11:00 Interference of different transition metals in mesoporous silica as catalysts in advanced oxidation processes** **P1.G.105**
Natália Rodrigues Marques Sturt¹, Iza Fonte Boa Silva¹, Marcelo Gonçalves Rosmaninho², Flavia Cristina Camilo Moura¹; ¹Universidade Federal de Minas Gerais, ²Universidade Federal de Ouro Preto

- 11:00 Influence of thermal annealing temperature on the optical and electrical properties of heterostructures based on SnO₂:2at%Eu and Cu_{1,8}S** P1.G.106
João Victor Morais Lima¹, Miguel Henrique Boratto¹, Luis Vicente de Andrade Scalvi¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:00 Synthesis of CaO / TiO₂ heterostructures for application in photocatalysis processes.** P1.G.107
Janaina Aparecida Oliveira¹, Renato Basilio dos Santos², Marcello Augusto Cunha¹, Carla Yuri Kisen¹; ¹Instituto Federal de São Paulo, ²Instituto Federal de Educação, Ciência e Tecnologia de São Paulo
- 11:00 Synthesis of BaO / TiO₂ heterostructures for application in photocatalysis processes.** P1.G.108
Renato Basilio dos Santos¹, Janaina Aparecida Oliveira¹, Marcello Augusto Cunha¹, Carla Yuri Kisen¹; ¹Instituto Federal de Educação, Ciência e Tecnologia de São Paulo
- 11:00 Synthesis of SrO/TiO₂ heterostructures for application in photocatalysis processes.** P1.G.109
 Marcello Augusto Cunha¹, Renato Basilio dos Santos¹, Janaina Aparecida Oliveira¹, Carla Yuri Kisen¹; ¹Instituto Federal de Educação, Ciência e Tecnologia de São Paulo
- 11:00 Luminescent Properties of Europium and Terbium Chelates Immobilized on Silica Gel** P1.G.110
Olena Artiushenko¹, Albina Mikhraliieva¹, Volodymyr Zaitsev¹; ¹Pontifícia Universidade Católica do Rio de Janeiro
- 11:00 CuO microstructures decorated with Ag and Zn nanoparticles for enhanced photocatalytic properties** P1.G.111
Nivaldo Freire de Andrade Neto¹, Anderson de Azevedo Gomes Santiago¹, LAURENIA MARTINS PEREIRA GARCIA¹, Fabiana Villela Motta¹, Mauricio Roberto Bomio Delmonte¹; ¹Universidade Federal do Rio Grande do Norte
- 11:00 Exfoliation of graphene on top of Er³⁺-doped SnO₂ and application of this hybrid structure as a gas sensor.** P1.G.112
Stevan Brayan Oliveira Santos¹, Luis Vicente de Andrade Scalvi², Diego Henrique Machado Olliveira², Bruna Andressa Bregadiolli²; ¹Faculdade de Ciências - UNESP - Campus de Bauru, ²Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:00 Analysis of the optical emission lines from the plasma during the deposition of TiO₂ for sputtering** P1.G.113
João Saccoman¹, Nilton Francelosi Azevedo Neto¹, Fabricio de Souza Medeiros¹, José Humberto Dias da Silva¹; ¹Faculdade de Ciências - UNESP - Campus de Bauru
- 11:00 Study of the morphological modification of CuO through pH variation by the sonochemical method** P1.G.114
Patrícia Merlim de Oliveira¹, Nivaldo Freire de Andrade Neto¹, Yasmim Gomes de Oliveira¹, Fabiana Villela da Motta¹, Mauricio Roberto Bomio Delmonte¹; ¹Universidade Federal do Rio Grande do Norte
- 11:00 Influence of Boron doping on the photocatalytic and antimicrobial activities of TiO₂** P1.G.115
Onécima Biatriz de Medeiros Ramalho¹, Nivaldo Freire de Andrade Neto¹, Leulomar Enedino do Nascimento¹, Fabiana Villela da Motta¹, Mauricio Roberto Bomio Delmonte¹; ¹Universidade Federal do Rio Grande do Norte
- 11:00 Nanocompound Core-Shell TiO₂@CeO₂ obtained by the Pechini method** P1.G.116
Leulomar Enedino do Nascimento¹, Nivaldo Freire de Andrade Neto¹, Onécima Biatriz de Medeiros Ramalho¹, Fabiana Villela da Motta¹, Mauricio Roberto Bomio Delmonte¹; ¹Universidade Federal do Rio Grande do Norte

- 11:00 Characterization of AgCl/GO composites obtained by facile synthesis** **P1.G.117**
Yasmim Gomes de Oliveira¹, Patrícia Merlim de Oliveira¹, Nivaldo Freire de Andrade Neto¹, Fabiana Villela da Motta¹, Mauricio Bomio¹; ¹Universidade Federal do Rio Grande do Norte
- 11:00 Synthesis of thin films of rare earth doped CeO₂: Europium, Terbium and Thulium** **P1.G.118**
Beatriz Pinheiro Dias¹, Theresa Beatriz Oliveira Nunes¹, Celmo Hudson Reis de Paula¹, Laurenia Martins Pereira Garcia¹, Rubens Maribondo Nascimento¹, Mauricio Bomio¹, Fabiana Villela da Motta¹, Carlos Alberto Paskocimas¹; ¹Universidade Federal do Rio Grande do Norte
- 11:00 S-doped TiO₂ films applied to UV-Vis heterogeneous photocatalysis** **P1.G.119**
Rodrigo Teixeira Bento¹, Olandir Vercino Correa¹, Marina Fuser Pillis¹; ¹Instituto de Pesquisas Energéticas e Nucleares
- 11:00 Influence of Mg doped ZnO decorated with Ag in the photocatalytic activity** **P1.G.120**
Celmo Hudson Reis de Paula¹, Theresa Beatriz Oliveira Nunes¹, Beatriz Pinheiro Dias¹, LAURENIA MARTINS PEREIRA GARCIA¹, Rubens Maribondo Nascimento¹, Mauricio Bomio¹, Fabiana Villela da Motta¹, Carlos Alberto Paskocimas¹; ¹Universidade Federal do Rio Grande do Norte

SESSION G. 03 (14:00 - 16:15) - Room Flamboyant 2

- 14:00 Zinc-tin oxide tailored nanostructures produced by solution-based methods: a vehicle towards sustainable and multifunctional oxide nanoelectronics** **G.O3.1***
Pedro Barquinha¹, Ana Rovisco¹, Soumen Maiti¹, Rita Branquinho¹; ¹Department of Materials Science, Faculty of Science and Technology, Universidade NOVA de Lisboa and CEMOP/UNINOVA
- 14:30 Many-body electronic structure calculations of europium complexes in ZnO** **G.O3.2**
Andreia Luisa da Rosa^{1,2}, Michael Lorke², Thomas Frauenheim²; ¹Universidade Federal de Goiás, ²Universität Bremen
- 14:45 Optical and structural properties of NiO-ZnO and Ni-doped ZnO nanoparticles synthesized by a new sol-gel route** **G.O3.5**
Marianne Roque de Freitas¹, Ney Pereira Mattoso Filho¹; ¹Universidade Federal do Paraná
- 15:00 Synthesis and Characterization of Black TiO₂ Obtained by Plasma Processes** **G.O3.6**
Armstrong Godoy Junior¹, André Luis de Jesus Pereira², Marcilene Cristina Gomes³, Douglas Marcel Gonçalves Leite¹, Marcos Massi⁴, Argemiro Soares da Silva Sobrinho¹; ¹Instituto Tecnológico de Aeronáutica, ²Universidade Federal da Grande Dourados, ³Instituto Federal de São Paulo, ⁴Universidade Presbiteriana Mackenzie
- 15:15 High-Performance Solar cells based on Brazilian natural dyes and nano semiconductors: TiO₂ and SnO₂-F using solar simulator** **G.O3.7**
Thiago Ferreira Gomes¹, Pilar Hidalgo Falla¹, Icoana Lais Leitão Mascarenhas Martins¹, Vanessa Lacerda Menzendes¹, DIEGO CARDOSO DE SOUZA¹, Letícia de Fátima Silveira¹, Raquel da Silva Brito¹, Wang Hui², Andre Luiz Da Silva², Emerson Roberto Santos²; ¹Universidade de Brasília, ²Escola Politécnica de Universidade de São Paulo
- 15:30 Hybrid density-functional calculations of formic acid on anatase TiO₂ (101) surfaces** **G.O3.8**
Andreia Luisa da Rosa¹, Liangzhi Kou², Thomas Frauenheim², Erika Nascimento Lima³; ¹Universidade Federal de Goiás, ²Universität Bremen, ³Universidade Federal de Mato Grosso

Poster presentations

SESSION P2 (18:00 - 19:30)

- 18:00 Alumina films deposited by Plasma Sputtering of Aluminum Acetylacetonate** P2.G.1
Ricardo Rodrigues Blanco¹, Larissa Solano de Almeida², Felipe Darriba Battaglin¹,
Luciana Sgarbi Rossino², Adriana de Oliveira Delagdo Silva³, Nilson C Cruz¹, Elidiane
Cipriano Rangel¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Faculdade
de Tecnologia de Sorocaba, ³Universidade Federal de São Carlos
- 18:00 A One Step synthesis of Reduced MoO_{3-x} using Gamma Ray Radiation in Liquid Medium.** P2.G.2
Diane Correia de Araújo Lima¹, Stterferson Emanuel Silva¹, Walter Mendes de
Azevedo¹; ¹Universidade Federal de Pernambuco
- 18:00 Surface tension driven flow forming aluminum oxide microtubes** P2.G.3
José Antônio Souza¹, Isabela Coutinho¹, Antonio Alvaro Ranha Neves¹, Guilherme
Sombrio¹; ¹Fundação Universidade Federal do Abc
- 18:00 Phase transformation from β-Ni(OH)₂ to NiO film by a thermal route: influence on electrical properties** P2.G.4
Luis Torres Quispe¹, Lindiomar Borges Avila Junior¹, Iuri Stefani Brandt¹, André
Avelino Pasa¹; ¹Universidade Federal de Santa Catarina
- 18:00 Nd_{1-x}Eu_xNiO₃ thin films grown on SiO₂/Si(100) substrate** P2.G.5
Jéssica Helisa Hautrive Rossato¹, Márcia Tsuyama Escote¹; ¹Universidade Federal do
ABC
- 18:00 Sensing properties of Sb:SnO₂/TiO₂ thin films deposited by sol-gel** P2.G.6
Roberto de Aguiar Ramos Jr.¹, Miguel Henrique Boratto^{2,1}, Luis Vicente de Andrade
Scalvi¹; ¹Faculdade de Ciências - UNESP - Campus de Bauru, ²Universidade Federal de
Santa Catarina
- 18:00 Stability of calcium and magnesium carbonates at Earth's lower mantle thermodynamic conditions** P2.G.7
Samuel Silva Santos¹, Michel L. Marcondes¹, Joao Francisco Justo Filho², Lucy V.
Credidio Assali¹; ¹Instituto de Física, Universidade de São Paulo, ²Escola Politécnica de
Universidade de São Paulo
- 18:00 Synthesis and photocatalytic activity of Ag⁺ doped In(OH)₃** P2.G.8
Mara Tatiane de Souza Tavares¹, Nivaldo Freire de Andrade Neto², Erik Alexander
Cunha Ferreira², Raimison Bezerra de Assis¹, Elson Longo³, Mauricio Roberto Bomio
Delmonte², Fabiana Villela da Motta²; ¹Instituto Federal de Educação, Ciência e
Tecnologia da Bahia, ²Universidade Federal do Rio Grande do Norte, ³Universidade
Federal de São Carlos
- 18:00 Syntesis and characterization of CaTiO₃ by for application in photocatalysis** P2.G.9
Lisiane de Oliveira Diehl¹, Cátia Liane Ücker¹, Sergio da Silva Cava¹, Cristiane
Raubach Ratmann¹; ¹Universidade Federal de Pelotas
- 18:00 The effect of the alpha, beta and gamma structures of Ag₂WO₄ on rhodamine B photocatalysis** P2.G.10
Pablo Santana Lemos¹, Román Alvarez Roca¹, Elson Longo¹, Juan Andrés²; ¹Federal
University of Sao Carlos, ²Universitat Jaume I

- 18:00 TiO₂ electrochemical deposition on boron doped diamond/carbon fiber electrode for dye degradation** **P2.G.11**
Lania Auxiliadora Pereira Constâncio¹, Andrea Boldarini Couto¹, Neidenei Gomes Ferreira¹; ¹National Institute for Space Research
- 18:00 Synthesis and physical properties of Cd-doped ZnO nanostructures produced by solvothermal technique.** **P2.G.12**
Ana Laura Curcio¹, Alexandre Mesquita², Paulo Sérgio Pizzani¹, Ariano De Giovanni Rodrigues¹; ¹Universidade Federal de São Carlos, ²Universidade Estadual Paulista Júlio de Mesquita Filho
- 18:00 Properties of BaMoO₄ phosphors heat-treated by hydrothermal and exposed to beta radiation** **P2.G.13**
ANA PAULA de AZEVEDO MARQUES¹, Roseli Künzel¹, Emico Okuno², Elisabeth Mateus Yoshimura², Nancy Kuniko Umisedo²; ¹Universidade Federal de São Paulo, ²Instituto de Física, Universidade de São Paulo
- 18:00 Effect of ethylenediamine addition and time variation of CuO synthesis on microstructure morphology and methylene blue degradation** **P2.G.14**
Vanessa Santos Fonseca¹, Mauricio Bomio¹, Fabiana Villela Motta¹, Nivaldo Freire de Andrade Neto¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Study of the optical and photocatalytic properties of TiO₂ / In₂O₃ thin films** **P2.G.15**
LAURENIA MARTINS PEREIRA GARCIA¹, Nivaldo Freire de Andrade Neto¹, Laura Ximena Lovisa¹, Carlos Alberto Paskocimas¹, Rubens Maribondo do Nascimento¹, Mauricio Roberto Bomio Delmonte¹, Fabiana Villela da Motta¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Synthesis and characterization of Fe-doped La₂Ce₂O₇** **P2.G.16**
Aliciane Cíntia Maia Gama¹, André Luís Lopes-Moriyama¹, Carlson Pereira Souza¹, Angélica Belchior Vital^{1,2}; ¹Universidade Federal do Rio Grande do Norte, ²Programa de Pós Graduação em Engenharia Química (PPGEQ)
- 18:00 Formation of SrTiO₃ perovskite nanoparticles obtained by hydrothermal route using TiO₂ nanoparticles as precursor** **P2.G.17**
Anderson Thesing¹, Eduardo J. Damiani¹, Lara F. Loguercio¹, Pedro G. Demingos¹, Marcos Jose Leite Santos¹, Jacqueline Ferreira¹; ¹Universidade Federal do Rio Grande do Sul
- 18:00 Morphology, structural and optical properties of PbMoO₄ nanocrystals obtained from microwave method** **P2.G.18**
Jairo dos Santos Trindade¹, Francisco Xavier Nobre^{2,3}, Rodrigo Muniz de Sousa³, Marcel Leiner De Sá¹, Edgar Alves de Araújo Júnior¹, Giancarlo Silva Sousa¹, Marcus Valério Botelho do Nascimento³, Yurimiler Leyet Ruiz^{3,4}, Paulo Rogério da Costa Couceiro³, José Milton Elias de Matos¹, Walter Ricardo³; ¹Universidade Federal do Piauí, ²Instituto Federal de Educação, Ciência e Tecnologia do Amazonas, ³Universidade Federal do Amazonas, ⁴Programa de pós graduação em Ciência e Engenharia de Materiais
- 18:00 Metal-insulator transition in RNiO₃ nanotubes** **P2.G.19**
Jéssica Helisa Hautrive Rossato¹, Juliane Carla Bernardi¹, Midilane Sena Medina¹, Diego Anisio Modesto¹, Márcia Tsuyama Escote¹; ¹Universidade Federal do ABC
- 18:00 Characterization of optical properties of Er³⁺ doped BaTiO₃ powder by confocal microscopy** **P2.G.20**
J. L. Clabel^{1,2}, Iram T. Awam¹, Sukarno O. F.², E. Marega Jr.¹; ¹IFSC, USP, SAO PAULO, ²DF, UFV, Viçosa

- 18:00 Conduction studies of silver nanoparticles thin films: Applications** **P2.G.21**
Jonathan Costa Negri¹, Segundo Nilo Mestanza Munoz¹, Anderson Orzari Ribeiro¹, Daniel Florencio de Aquino¹, Heriques Frandini Gatti¹, DIEGO CORREIA DE SOUZA¹; ¹Universidade Federal do ABC
- 18:00 Study and Optimization of Cerium nanoparticles with differentiated morphologies by hydrothermal synthesis** **P2.G.22**
Arthur Martins Gabriel¹, Tatiane Moraes Arantes¹; ¹Universidade Federal de Jataí
- 18:00 Photodeposition of Prussian Blue on Silica-Titania Aerogels** **P2.G.23**
Amanda Pasquoto Perissinotto¹, Elias Paiva Ferreira Neto², Sajjad Ullah³, Mateus Batista Simões², Ubirajara Pereira Rodrigues Filho²; ¹Escola de Engenharia de São Carlos, ²Instituto de Química de São Carlos, ³Instituto de Química de Araraquara
- 18:00 Microwave-assisted Solvothermal Synthesis of Zn₂TiO₄ For Solar Cells** **P2.G.24**
Leandro Lemos Gonzales^{1,2}, Sergio da Silva Cava², Mário Lúcio Moreira²; ¹Instituto Federal de Educação, Ciência e Tecnologia Sul, ²Universidade Federal de Pelotas
- 18:00 Spectroscopic and ultrasonic investigations on structural characterization of B₂O₃-PbO-SrO glasses** **P2.G.25**
MARIANA DA SILVA BARROS¹, Bianca Reis Moya¹, Idalci Cruvinel Reis¹, Victor Ciro Solano Reynoso², kamila ruthielle Gomes¹; ¹Instituto Federal de Educação, Ciência e Tecnologia Goiano, ²Universidade Estadual Paulista Júlio de Mesquita Filho
- 18:00 Optical and Structural investigation of SiO₂-PbO-B₂O₃-WO₃ glasses** **P2.G.26**
MARIANA DA SILVA BARROS¹, Bianca Reis Moya¹, Victor Ciro Solano Reynoso², Idalci Cruvinel Reis¹, kamila ruthielle Gomes¹; ¹Instituto Federal de Educação, Ciência e Tecnologia Goiano, ²Universidade Estadual Paulista Júlio de Mesquita Filho
- 18:00 Bi₂MoO₆ Semiconductor for Photocatalytic Degradation of Organic Pollutants in Water** **P2.G.27**
Heberton Wender¹, Luiz E. Gomes¹, Francielle Rodrigues Gomes Stelo Orue¹; ¹Universidade Federal de Mato Grosso do Sul
- 18:00 Characterization and Electrical Response to Humidity of Sintered Polymeric Electrospun Fibers of Niobium Oxide-(TiO₂/WO₃)** **P2.G.28**
Sandy Monteiro¹, Ramiro Passos Guimarães¹, Victor Souza Leão², Evando Santos Araujo²; ¹Universidade do Estado da Bahia, ²Fundação Universidade Federal do Vale do São Francisco
- 18:00 Synthesis and characterization of green color pigments of Co-doped ZnO as a near-infrared reflective** **P2.G.29**
Julia de Oliveira Primo¹, Daniele Carriel Peron¹, Ketlyn Wolfart Borth¹, Dienifer F. L. Horsth¹, Fauze Jacó Anaissi¹; ¹Universidade Estadual do Centro Oeste
- 18:00 Current–voltage characteristics of nanocrystalline silicon carbide (3C-SiC) under the neutron irradiation** **P2.G.30**
Elchin M. Huseynov¹; ¹Institute of Radiation Problems of Azerbaijan National Academy of Sciences
- 18:00 A low temperature, highly sensitive and fast response NO₂ gas sensor based on ZnSnO₃ Microcubes** **P2.G.31**
Niravkumar Jitendrabhai Joshi¹, Takeshi Hayasaka², Huiliang Liu², Liwei Lin², Osvaldo Novais de Oliveira Jr¹; ¹Instituto de Física de São Carlos, ²University of California Berkeley
- 18:00 Photocatalytic activity of Fe³⁺ and Pb²⁺ doped TiO₂ obtained by sonochemistry method** **P2.G.32**
Onécima Biatriz de Medeiros Ramalho¹, Nivaldo Freire de Andrade Neto¹, Leulomar Enedino do Nascimento¹, Fabiana Villela da Motta¹, Mauricio Roberto Bomio Delmonte¹; ¹Universidade Federal do Rio Grande do Norte

- 18:00 Synthesis of Bi₂O₃ / BiVO₄ heterostructure and evaluation of its photocatalytic potential under solar radiation** P2.G.33
Paulo Henrique Eleuterio Falsetti¹, Rafaella Hissae Koga¹, Douglas Mendes da Silva Del Duque¹, Vagner Romito de Mendonça¹; ¹Instituto Federal de Educação, Ciência e Tecnologia de São Paulo
- 18:00 Photocatalytic Properties of PbMoO₄ at Different Temperatures** P2.G.34
Thiago Epifani Miranda¹, Beatriz Pinheiro Dias¹, Theresa Beatriz Nunes¹, Celmo Hudson Reis de Paula¹, LAURENIA MARTINS PEREIRA GARCIA¹, Mauricio Bomio¹, Rubens Maribondo do Nascimento¹, Fabiana Villela da Motta¹, Carlos Alberto Paskocimas¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Multivariate analysis on Fabry-Pérot interference spectra of nanoporous anodic alumina for glucose sensing applications** P2.G.35
Letícia Mariê Minatogau Ferro^{1,2}, Sherlan Guimarães Lemos³, Marystela Ferreira⁴, Francisco Trivinho Strixino⁴; ¹Centro Nacional de Pesquisa em Energia e Materiais, ²Instituto de Química da Unicamp, ³Universidade Federal da Paraíba, ⁴Universidade Federal de São Carlos
- 18:00 Study of the influence deposition order of TiO₂ / CeO₂ thin films in the photocatalytic activity.** P2.G.36
Theresa Beatriz Oliveira Nunes¹, Fabiana Villela da Motta¹, Beatriz Pinheiro Dias¹, Celmo Hudson Reis de Paula¹, LAURENIA MARTINS PEREIRA GARCIA¹, Mauricio Bomio¹, Rubens Maribondo do Nascimento¹, Carlos Alberto Paskocimas¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Synthesis and photocatalytic properties of Nb₂O₅/V₂O₅ heterostructures** P2.G.37
Thaís Aparecida Rodrigues¹, Douglas Mendes da Silva Del Duque¹, Vagner Romito de Mendonça¹; ¹Instituto Federal de São Paulo
- 18:00 Effect of gamma irradiation on properties of hybrid multifunctional nanocomposites based on rare earth and ferrites** P2.G.38
Joice Yoko D Alessandro Idehara¹, Luis Eugenio Fernandez-Outon², Adriana Silva de Albuquerque¹, José Domingos Ardisson¹; ¹Centro de Desenvolvimento da Tecnologia Nuclear, ²Universidade Federal de Minas Gerais
- 18:00 Investigation of the properties of Nb₂O₅ against different precursors for applications in photovoltaic cells** P2.G.39
Cátia Liane Ücker¹, Vitor Goetzke¹, Cristiane Raubach Ratmann¹, Mário Lúcio Moreira¹, Sergio da Silva Cava¹; ¹Universidade Federal de Pelotas
- 18:00 Photocatalytic Properties of h-MoO₃ Synthesized by Hydrothermal Microwave Method** P2.G.40
Marcel Leiner De Sá¹, Maria Rita de Moraes Chaves Santos¹, Yvo Borges da Silva¹, Patrícia Alves de Abreu e Sousa¹, Heldeney Rodrigues de Sousa¹, Rogério Almiro Oliveira Silva¹, Valdivânia Albuquerque do Nascimento¹, Millena de Cassia Sousa e Silva¹, Francisco Xavier Nobre²; ¹Universidade Federal do Piauí, ²Instituto Federal de Educação, Ciência e Tecnologia do Amazonas
- 18:00 Investigation of the electrochemical properties of an hybrid ormosil film with phosphotungstic acid toward hexazinone** P2.G.41
Victória Oliveira Margarido¹, Adriano L Souza¹, Julia Helena De Paula¹, Pedro H. P. Olívio¹, Leonardo Aparecido Correia¹, Kelly Roberta Francisco¹; ¹Universidade Federal de São Carlos
- 18:00 SrTiO₃ / TiO₂ heterostructures obtaintion and characterization** P2.G.42
Ubirajara Coletto Junior¹, Rafael Aparecido Ciola Amoresi¹, Maria Aparecida Zaghete¹, Elson Longo¹, Leinig Antonio Perazolli¹; ¹Instituto de Química de Araraquara

- 18:00 Analysis of the photocatalytic performance of multilayer thin films of TiO₂/MnO₂** P2.G.43
Thyalle Trindade de Araújo Rezende¹, LAURENIA MARTINS PEREIRA GARCIA¹,
 Thales Leite Brandão Ferreira¹, Carlos Alberto Paskocimas¹, Rubens Maribondo do
 Nascimento¹, Mauricio Bomio¹, Fabiana Villela da Motta¹; ¹Universidade Federal do
 Rio Grande do Norte
- 18:00 Study of photocatalytic activity of MnO₂/In₂O₃ thin films obtained by spin coating** P2.G.44
Thales Leite Brandão Ferreira¹, LAURENIA MARTINS PEREIRA GARCIA¹, Thyalle
 Trindade de Araújo Rezende¹, Fabiana Villela da Motta¹, Mauricio Roberto Bomio
 Delmonte¹, Murillo Henrique de Matos Rodrigues², Guilherme Henrique De Melo
 Gurgel¹, Rubens Maribondo do Nascimento¹, Mario Godinho Junior²; ¹Universidade
 Federal do Rio Grande do Norte, ²Universidade Federal de Goiás
- 18:00 Particle size effect of BaCO₃ and TiO₂ on the BaTiO₃ ceramic powders: A** P2.G.45
structural and microstructural study
Gaston Lozano Calderón¹, J. L. Clabel², E. Marega Jr.¹; ¹IFSC, USP, SAO
 PAULO, ²Universidade Federal de Viçosa
- 18:00 On the structural approach of C₃A** P2.G.46
Tatiane Manke da Rocha¹, Sergio da Silva Cava¹, Mário Lúcio Moreira¹; ¹Universidade
 Federal de Pelotas
- 18:00 DFT studies of stoichiometric and oxygen-deficient α-PbO films** P2.G.47
Joao Manuel Cordeiro¹, Douglas Henrique Azevedo¹, Armando Beltran²; ¹Universidade
 Estadual Paulista Júlio de Mesquita Filho, ²Universitat Jaume I
- 18:00 Synthesis of Mn and Sn doped ZnO nanowires and electrical and magnetic** P2.G.48
characterization using AFM
Felipe Augusto Carvalho¹, Thalita Chiaramonte¹; ¹Universidade Federal de São João
 Del Rei
- 18:00 Influence of pH on silver molybdate synthesis for photocatalytic applications.** P2.G.49
Erik Alexander Cunha Ferreira¹, Nivaldo Freire de Andrade Neto¹, Fabiana Villela
 Motta¹, Mauricio Bomio¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Study of organic-inorganic solar filters in ordered mesoporous silica** P2.G.50
Leonardo Braile Silva¹, Tereza da Silva Martins¹, Vânia Rodrigues Leite e
 Silva¹; ¹Universidade Federal de São Paulo
- 18:00 Prospective Study of the Molecular Microsphere MoO₃ Utilization in** P2.G.51
Photocatalytic Activity
Yvo Borges da Silva¹, Marcel Leiner De Sá¹, Maria Rita de Moraes Chaves Santos¹,
 Valdivânia Albuquerque do Nascimento¹, Millena de Cassia Sousa e Silva¹, Rogério
 Almiro Oliveira Silva¹, Patrícia Alves de Abreu e Sousa¹, Heldeney Rodrigues de
 Sousa¹; ¹Universidade Federal do Piauí
- 18:00 Synthesis and study of structural and morphologic properties of** P2.G.52
MgFe₂O₄ nanoparticles
 Giovanni Fiori Tini¹, WALMIR ENO POTTKER¹, Natália Herédia de Paula¹, Nathália
 Maria Costa Guari¹, Miguel Angel Cobos Fernandez², György József Jaics³, Felipe de
 Almeida La Porta¹; ¹Universidade Tecnológica Federal do Paraná, ²Universidad
 Complutense de Madrid, ³University of Szeged
- 18:00 Electrical conduction process in cyclodextrin sensors formed by nanowires** P2.G.53
ensemble
Cleber Alexandre Amorim¹, Kate Cristina Blanco², Ivani Meneses Costa³, Jonas
 Contiero⁴, Adenilson José Chiquito³; ¹Faculdade de Ciências e Engenharia -
 Unesp, ²Instituto de Física de São Carlos, ³Universidade Federal de São
 Carlos, ⁴Universidades Estadual Paulista Júlio de Mesquita

- 18:00 Synthesis and characterization of yttrium iron garnet nanoparticles doped with cobalt** **P2.G.54**
 Ramón Raudel Peña Garcia¹, Yuset Guerra Dávila¹, Luiz Filho Rodrigues Leal², Francisco Eroni Paz dos Santos², JEAN FELIPE OLIVEIRA DA SILVA¹, Filipe Rogerio de Souza Quirino¹, Eduardo Padrón Hernández¹; ¹Universidade Federal de Pernambuco, ²Universidade Federal do Piauí
- 18:00 The extended Bloch law for analyzing ZnO doped with cobalt and chromium** **P2.G.55**
 Ramón Raudel Peña Garcia¹, Yuset Guerra Dávila¹, Bruno Verissimo de Miranda Farias¹, Francisco Eroni Paz dos Santos², Filipe Rogerio de Souza Quirino¹, JEAN FELIPE OLIVEIRA DA SILVA¹, Eduardo Padrón Hernández¹; ¹Universidade Federal de Pernambuco, ²Universidade Federal do Piauí
- 18:00 High Pressure Raman and XRD Studies of Hexagonal MoO₃ nanorods** **P2.G.56**
 João Victor B. Moura¹, José Gadelha Silva Filho¹, Adenilson Oliveira dos Santos², Francisco Ferreira Sousa³, Cleânio Luz Lima⁴, Antonio Gomes Souza Filho¹, Paulo de Tarso Cavalcante Freire¹, José Valdenir Silveira¹; ¹Universidade Federal do Ceará, ²Universidade Federal do Maranhão, ³Universidade Federal do Pará, ⁴Universidade Federal do Piauí
- 18:00 Synthesis of molybdenum oxide from mineral from Rio Grande do Norte** **P2.G.57**
Maritta Meyrella dos Santos Lira¹, Tiago Fernandes de Oliveira¹, André Luís Lopes-Moriyama¹, Carlson Pereira de Souza¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Influence of heat treatment on the production of mixed oxides of Nb and Ta from columbite** **P2.G.58**
Tiago Fernandes de Oliveira¹, Carlson Pereira Souza¹, Rayane Ricardo da Silva¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Synthesis of transition metal nitride at low temperature from complexed precursor.** **P2.G.59**
Rayane Ricardo da Silva¹, Carlson Pereira de Souza¹, André Luís Lopes-Moriyama¹, Tiago Fernandes de Oliveira¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Structural and magnetic properties of Ni-doped yttrium iron garnet nanoparticles** **P2.G.60**
 Ramón Raudel Peña Garcia¹, Yuset Guerra Dávila¹, Francisco Eroni Paz dos Santos², Carlos José Sabino Machado Filho¹, Eduardo Padrón Hernández¹; ¹Universidade Federal de Pernambuco, ²Universidade Federal do Piauí
- 18:00 Characterization of TiO₂ anatase with gallium prepared by reverse micelles** **P2.G.61**
Herick Ematne¹, Adhimar Flávio Oliveira¹, Rero Marques Rubinger¹; ¹Universidade Federal de Itajubá
- 18:00 Handling magnetic ordering in Lu substituted EuMnO₃ thin films by substrate strain** **P2.G.62**
Yonny Barcelay Romaguera¹, Fabio Grabiél Figueiras², Joaquim Agostinho Moreira³, Javier Perez de-la-Cruz⁴, Abilio de Jesus Monteiro Almeida⁴, Pedro B Tavares B⁵, Yurimiler Leyet Ruiz^{1,6}; ¹Universidade Federal do Amazonas, ²Universidade de Aveiro, ³Universidade do Porto, ⁴University of Porto, ⁵Universidade de Tras-os-Montes e Alto Douro, ⁶Programa de pós graduação em Ciência e Engenharia de Materiais
- 18:00 Structural and vibrational study of CaMoO₄ synthesized by Sonochemistry route** **P2.G.63**
Rodrigo Muniz de Sousa¹, Francisco Xavier Nobre^{2,1}, Elton Ribeiro da Silva¹, Jairo dos Santos Trindade³, Edgar Alves de Araújo Júnior³, Giancarlo Silva Sousa³, Marcus Valério Botelho do Nascimento¹, Walter Ricardo¹, José Milton Elias de Matos³, Paulo Rogério da Costa Couceiro¹, Yurimiler Leyet Ruiz^{1,4}; ¹Universidade Federal do Amazonas, ²Instituto Federal de Educação, Ciência e Tecnologia do Amazonas, ³Universidade Federal do Piauí, ⁴Programa de pós graduação em Ciência e Engenharia de Materiais

- 18:00 Synthesis of Titanates nanotubes using phase mixture of TiO₂** **P2.G.64**
 Rosane dos Santos Bindá¹, Rodrigo Muniz de Sousa¹, Francisco Xavier Nobre^{2,1}, Edgar Alves de Araújo Júnior³, Jairo dos Santos Trindade³, Giancarlo Silva Sousa³, Marcus Valério Botelho do Nascimento¹, francisco alexandre mariano¹, José Milton Elias de Matos³, Walter Ricardo¹, Yurimiler Leyet Ruiz^{1,4}, Paulo Rogério da Costa Couceiro¹; ¹Universidade Federal do Amazonas, ²Instituto Federal de Educação, Ciência e Tecnologia do Amazonas, ³Universidade Federal do Piauí, ⁴Programa de pós graduação em Ciência e Engenharia de Materiais
- 18:00 Synthesis of Ca_{1-x}Cu_xWO₄ by sonochemistry method: morphology and structural properties** **P2.G.65**
 Francisco Xavier Nobre^{1,2}, Rodrigo Muniz de Sousa², Lizandro Manzato¹, José Milton Elias de Matos³, Walter Ricardo², Paulo Rogério da Costa Couceiro²; ¹Instituto Federal de Educação, Ciência e Tecnologia do Amazonas, ²Universidade Federal do Amazonas, ³Universidade Federal do Piauí
- 18:00 Structural, optical and vibrational study of CaWO₄ nanoparticles** **P2.G.66**
 Elton Ribeiro da Silva¹, Francisco Xavier Nobre^{2,1}, Rodrigo Muniz de Sousa¹, Jairo dos Santos Trindade³, Edgar Alves de Araújo Júnior³, Giancarlo Silva Sousa³, Marcus Valério Botelho do Nascimento¹, José Milton Elias de Matos³, Walter Ricardo¹, Paulo Rogério da Costa Couceiro¹, Yurimiler Leyet Ruiz^{1,4}; ¹Universidade Federal do Amazonas, ²Instituto Federal de Educação, Ciência e Tecnologia do Amazonas, ³Universidade Federal do Piauí, ⁴Programa de pós graduação em Ciência e Engenharia de Materiais
- 18:00 heterogeneous photocatalysis of herbicide Tordon 2,4-D with the TiO₂ nanoparticles** **P2.G.67**
 Francisco Xavier Nobre^{1,2}, francisco alexandre mariano², Elton Ribeiro da Silva², Rodrigo Muniz de Sousa², Jairo dos Santos Trindade³, Walter Ricardo², Marcus Valério Botelho do Nascimento², Yurimiler Leyet Ruiz^{2,4}, Paulo Rogério da Costa Couceiro², José Milton Elias de Matos³; ¹Instituto Federal de Educação, Ciência e Tecnologia do Amazonas, ²Universidade Federal do Amazonas, ³Universidade Federal do Piauí, ⁴Programa de pós graduação em Ciência e Engenharia de Materiais
- 18:00 Synthesis, characterization and investigation of photocatalytic activity of Ag₂MoO₄ microcrystals** **P2.G.68**
 Giancarlo Silva Sousa¹, Francisco Xavier Nobre^{2,3}, Jairo dos Santos Trindade¹, Edgar Alves de Araújo Júnior¹, Marcus Valério Botelho do Nascimento³, Lizandro Manzato⁴, Paulo Rogério da Costa Couceiro³, José Milton Elias de Matos¹, Maria Rita de Moraes Chaves Santos¹; ¹Universidade Federal do Piauí, ²Instituto Federal de Educação, Ciência e Tecnologia do Amazonas, ³Universidade Federal do Amazonas, ⁴Instituto Federal de Educação, Ciência e Tecnologia do Piauí
- 18:00 Synthesis of Pb_{1-x}Cu_xMoO₄ by microwave method: structural and optical characterization** **P2.G.69**
Jairo dos Santos Trindade¹, Francisco Xavier Nobre^{2,3}, Giancarlo Silva Sousa¹, Edgar Alves de Araújo Júnior¹, Elton Ribeiro da Silva³, Marcus Valério Botelho do Nascimento³, Rodrigo Muniz de Sousa³, Walter Ricardo³, Paulo Rogério da Costa Couceiro³, Yurimiler Leyet Ruiz^{3,4}, José Milton Elias de Matos¹; ¹Universidade Federal do Piauí, ²Instituto Federal de Educação, Ciência e Tecnologia do Amazonas, ³Universidade Federal do Amazonas, ⁴Programa de pós graduação em Ciência e Engenharia de Materiais

TUESDAY, SEPTEMBER 18

Oral presentations

* Invited Lecture

SESSION G. 01 (09:30 - 10:30) - Room Cedro 5

09:30 A Novel Approach to Identify the Ionomer Phase in Proton Exchange Membrane Fuel Cells by EELS G.O1.1*

Paulo Ferreira^{1,2,3}, Kang Yu^{1,2}, Jian Xie⁴; ¹International Iberian Nanotechnology Laboratory, ²Materials Science and Engineering Program, University of Texas at Austin, ³Mechanical Engineering Department and IDMEC, Instituto Superior Técnico, University of Lisbon, ⁴Department of Mechanical and Energy Engineering, Indiana University-Purdue University

10:00 Optical and Electrical Stimuli of CeO₂ Thick Films: Gas Sensor Response Under CO(g) Exposure G.O1.2

Alexandre Z. Simões¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

10:15 Thermodynamic properties of CaCO₃: theoretical ab initio investigation including van der Waals interaction G.O1.3

Samuel Silva Santos¹, Michel L. Marcondes¹, Joao Francisco Justo Filho², Lucy V. Credidio Assali¹; ¹Instituto de Física, Universidade de São Paulo, ²Escola Politécnica de Universidade de São Paulo

SESSION G. 02 (11:00 - 12:00) - Room Cedro 5

11:00 Influence of Co-addition on SrTi_{1-x}CoxO₃ obtained by Microwave assisted hydrothermal synthesis G.O2.1

Fabio Calcagno Riemke¹, Cátia Liane Ücker¹, Mário Lúcio Moreira¹, Sergio da Silva Cava¹, Cristiane Raubach Ratmann¹; ¹Universidade Federal de Pelotas

11:15 Low-energy polarization switching in La-doped BiFeO₃ thin films G.O2.2

Everton Bonturim^{1,2,3}, Charles-Henri Lambert³, Liv Dedon³, Ramamoorthy Ramesh³; ¹Universidade Presbiteriana Mackenzie, ²Universidade de São Paulo, ³University of California Berkeley

SYMPOSIUM H - Metal Oxides-based Nanostructured Materials for Energy Systems and Devices

Symposium organizers:

Silvania Lanfredi (FCT/UNESP)

Juan Matos (Technological Development Unit, University of Concepcion, Chile)

Antonio Eduardo da Hora Machado (UFU)

Marcos Augusto de Lima Nobre (FCT/UNESP)

TUESDAY, SEPTEMBER 18

Oral presentations

* Invited Lecture

SESSION H. 01 (09:30 - 10:30) - Room Jatobá

- 09:30 Adsorption for... beyond adsorption: role of carbon porosity in orr and CO₂RR** Teresa J Bandosz¹; ¹The City College of New York **H.O1.1***
- 10:00 Composite of metal organic framework and camphor sulfonic acid for oxygen evolution reaction** Mohmmad Khalid¹, Hamilton Varela¹; ¹Universidade de São Paulo **H.O1.2**
- 10:15 Synthesis and characterization of colloidal suspensions of TiO₂/α-Fe₂O₃ nanoparticles and application as photoanode for water splitting** Nathália Carolina Verissimo^{1,2}, Vishnu Mogili², Rodnei Bertazzoli^{1,3,2}; ¹Instituto Tecnológico de Aeronáutica, ²Laboratorio Nacional de Nanotecnologia, ³Universidade Estadual de Campinas **H.O1.3**

Poster presentations

SESSION P3 (11:00 - 12:30)

- 11:00 Semiconductor copper oxide II films for gas detector** Lucas Leal D. Azevedo Lemos¹, Sonia Letichevsky¹, Roberto R de Avillez¹; ¹Pontificia Universidade Católica do Rio de Janeiro **P3.H.98**
- 11:00 Investigation of niobium oxide films properties for perovskite solar cells** Silvia Leticia Fernandes¹, José Humberto Dias da Silva², Carlos F. O. Graeff², Elson Longo¹; ¹Federal University of Sao Carlos, ²Faculdade de Ciências - UNESP - Campus de Bauru **P3.H.99**
- 11:00 Preparation and characterization of ZnO/α-Fe₂O₃ photoanode: Potential for solar cells application** Tatiana Martelli Mazzo¹, Gabriel Yuji Hata¹, Letícia Guerreiro da Trindade², Josiane Carneiro Souza³, Mario Rodrigo dos Santos Soares³, Ernesto Chaves Pereira³, Edson Roberto Leite³, Elson Longo³; ¹Universidade Federal de São Paulo, ²Universidade Federal do Rio Grande do Sul, ³Universidade Federal de São Carlos **P3.H.100**
- 11:00 Growth and characterization of ZnO nanowires for application in field emission devices** Denise Criado¹, Michel Oliveira da Silva Dantas¹, Alejandro Zuniga¹, Wellington Almeida de Assis Silva¹, Flavio Leandro Souza¹; ¹Universidade Federal do ABC **P3.H.101**

- 11:00 Manganese oxide nanofoam prepared by pulsed laser deposition for high performance supercapacitor electrodes** **P3.H.102**
 Janiny N. Lacerda¹, Dante Ferreira Franceschini¹, Laura Margarida Esteves¹, Wallace Castro Nunes¹, Renato Bastos Guimarães¹, Eduardo Ariel Ponzio¹, Yutao Xing¹; ¹Universidade Federal Fluminense
- 11:00 Influence of experimental conditions on electrochemical and morphological parameters of Nb-Al₂O₃ anodic films** **P3.H.103**
 Maria Angélica Cassú Menck¹, Yasmin Bastos Pisollito¹, Janaina Soares Santos¹, Francisco Trivinho Strixino¹; ¹Universidade Federal de São Carlos
- 11:00 Initial stages of MoS₂ CVD growth on HfO₂ and SiO₂ substrates** **P3.H.104**
Tais Orestes Feijó¹, Ester Riedner Figini Gerling¹, Eduardo Pitthan¹, Gabriel Vieira Soares¹; ¹Universidade Federal do Rio Grande do Sul
- 11:00 Effects of Mn Doping on the Properties of TiO₂ Nanoparticles Prepared by the Polymeric Precursor Method** **P3.H.105**
Andre Luis de Jesus Pereira^{1,2}, Marcilene Cristina Gomes³, Ziani de Souza Schiaber¹, André Luiz Martinez¹, Armando Beltrán⁴, Afonso Guilherme Norberto¹, Luís Fernando da Silva⁵, Douglas Marcel Gonçalves Leite⁶, Armstrong Godoy Junior⁶, Argemiro Soares da Silva Sobrinho⁶; ¹Fundação Universidade Federal da Grande Dourados, ²Faculdade de Ciências e Tecnologia, ³Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, ⁴Universitat Jaume I, ⁵Universidade Federal de São Carlos, ⁶Instituto Tecnológico de Aeronáutica
- 11:00 Effects of Friction Stir Processing on Hydrogen Storage of ZK60 Alloy** **P3.H.106**
Erenilton Pereira Silva¹, Daniel Rodrigo Leiva¹, Haroldo Cavalcanti Pinto², Ricardo Floriano³, André M Neves¹, Walter José Botta¹; ¹Universidade Federal de São Carlos, ²Universidade de São Paulo, ³Universidade Estadual de Campinas
- 11:00 High Water Oxidation Performance of BIVO₄/WO₃/V₂O₅ Photoanode** **P3.H.107**
Tatiana Santos Andrade¹, Carlos Giovani Bruziquesi², Bárbara Sá¹, Andreia Oliveira¹, Márcio César Pereira¹, Mariandry Rodriguez¹; ¹Universidade Federal dos Vales do Jequitinhonha e Mucuri, ²Universidade Federal de Ouro Preto
- 11:00 Degradation of biodiesel organic waste in a photoelectrochemical cell employing BIVO₄/WO₃/V₂O₅ photoanode** **P3.H.108**
 Tatiana Santos Andrade¹, Carlos Giovani Bruziquesi², Bárbara Sá¹, Márcio César Pereira¹, Mariandry Rodriguez¹; ¹Universidade Federal dos Vales do Jequitinhonha e Mucuri, ²Universidade Federal de Ouro Preto
- 11:00 Effect of N-doped TiO₂ on the synthesis of LaTiO_{3-x}N_x Perovskites** **P3.H.109**
Lílian de Oliveira de Antoni¹, Anderson Thesing¹, Jacqueline Ferreira¹, Marcos Jose Leite Santos¹; ¹Universidade Federal do Rio Grande do Sul
- 11:00 Effect of oxygen vacancy on SrTiO₃ nanoparticles applied for water splitting** **P3.H.110**
 Anderson Thesing¹, Eduardo J. Damiani¹, Maurício Oliveira Vaz¹, Lílian de Oliveira de Antoni¹, Jacqueline Ferreira¹, Marcos Jose Leite Santos¹; ¹Universidade Federal do Rio Grande do Sul
- 11:00 Study of multifunctional properties of the oxide Zn_{0.99}[Gd+Cu]_{0.01}O** **P3.H.111**
Raphael Lucas Sousa Silva¹, Adolfo Franco Júnior¹; ¹Universidade Federal de Goiás

- 11:00 Study on two electrodes assembled electrochemical cell of Fe@ACF electrodes for application in supercapacitor** P3.H.112
Manuella Gobbo de Castro Munhoz¹, Barbara Pinheiro², Aline Fontana Batista³, Jorge T Matsushima⁴, Aline Castilho Rodrigues¹, Andrés Cuña⁵, Jossano Saldanha Marcuzzo¹, Gisele Aparecida Amaral-Labat⁶, Maurício Ribeiro Baldan¹; ¹Instituto Nacional de Pesquisas Espaciais, ²National Institute for Space Research, ³Instituto de Aeronáutica e Espaço, ⁴Faculdade de Tecnologia de São José dos Campos, ⁵Faculdade de Química, Universidad de la República, ⁶Escola Politécnica de Universidade de São Paulo
- 11:00 Low-Temperature Fabrication, Fully Printed and Transparent Electrolyte-Gated Transistors Using ZnO With Semiconductor** P3.H.113
Rogério Miranda Morais¹, Cristina Henriques Gaspar², Luís Miguel Pereira², Rodrigo Ferrão Martins², Neri Alves³; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade Nova de Lisboa, ³FCT-UNESP Campus de Presidente Prudente
- 11:00 Effects of the Calcination Temperature on the Properties of Pure and Co Doped TiO₂ Nanoparticles Prepared by the Polymeric Precursor Method** P3.H.114
 Marcilene Cristina Gomes¹, Ziani de Souza Schiaber², André Luiz Martinez², Armando Beltrán³, Manoel de Mattos Leal², Andre Luis de Jesus Pereira^{2,4}, Adão Antônio da Silva², Luís Fernando da Silva⁵, Douglas Marcel Gonçalves Leite⁶, Armstrong Godoy Junior⁶, Argemiro Soares da Silva Sobrinho⁶; ¹Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, ²Fundação Universidade Federal da Grande Dourados, ³Universitat Jaume I, ⁴Faculdade de Ciências e Tecnologia, ⁵Universidade Federal de São Carlos, ⁶Instituto Tecnológico de Aeronáutica
- 11:00 Synthesis and characterization of titanium dioxide thin films modified with polydimethylsiloxanes** P3.H.115
Juliana Cardoso Neves¹, Beatriz Lima Rodrigues², Nelcy Della Santina Mohallem¹, Marcelo Machado Viana¹; ¹Universidade Federal de Minas Gerais, ²Pontifícia Universidade Católica de Minas Gerais
- 11:00 In situ growth of MnO₂ nanosheets on TiO₂ nanofibers and their performance as electrode for electrochemical supercapacitor.** P3.H.116
Elisângela Pacheco Silva¹, Adley Forti Rubira¹, Odair Pastor Ferreira², Edvani Curti EDVANI^{1,3}; ¹Universidade Estadual de Maringá, ²Universidade Federal do Ceará, ³Universidade Tecnológica Federal do Paraná
- 11:00 Comparative study of Ca₃Co₄O_{9-δ} nanostructures for catalysis of oxygen evolution reaction** P3.H.117
Vinicius Dias Silva¹, Thiago Araujo Simoes¹, Eliton S. Medeiros¹, Daniel Araújo Macedo¹; ¹Universidade Federal da Paraíba
- 11:00 Structure, densification and electrical properties of Gd³⁺ and Cu²⁺ co-doped ceria solid electrolytes for SOFC applications.** P3.H.118
Thamyscira Hermínio Santos Silva¹, João Paulo Freitas Grilo², Allan Jedson Menezes Araújo³, Francisco José Almeida Loureiro², Duncan P. Fagg², Fabio Coral Fonseca⁴, Daniel Araújo Macedo¹; ¹Universidade Federal da Paraíba, ²Universidade de Aveiro, ³Universidade Federal do Rio Grande do Norte, ⁴Instituto de Pesquisas Energéticas e Nucleares
- 11:00 Development of Ni-Co bimetallic catalysts for hydrogen production from shellfish waste** P3.H.119
Thamyscira Hermínio Santos Silva¹, Allan Jedson Menezes Araújo², Moisés Rômolo Cesário³, Daniel Araújo Macedo¹; ¹Universidade Federal da Paraíba, ²Universidade Federal do Rio Grande do Norte, ³Université du Littoral Côte d'Opale

- 11:00 Synthesis of aluminum oxide coatings containing silver by plasma electrolytic oxidation (PEO) of 6061 Al alloy** **P3.H.120**
Andressa Rodrigues¹, Janaina Soares Santos¹, Anna Paulla Simon², Carlise Hannel Ferreira², Vidianny Aparecida Queiroz Santos², Mariana Souza Sikora², Nilson Cristino Cruz³, Giovanni Pimenta Mambrini¹, Francisco Trivinho Strixino¹; ¹Universidade Federal de São Carlos, ²Universidade Tecnológica Federal do Paraná, ³Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:00 Transition metal coordinated in protein trapped in hard template for the design of electrocatalytic sites** **P3.H.121**
Elizângela Hafemann Fragal¹, Vanessa Hafemann Fragal², Tewodros Asefa³, Adley Forti Rubira¹, Rafael Silva¹; ¹Universidade Estadual de Maringá, ²Universidade Estadual de Campinas, ³Rutgers University
- 11:00 Electrochemical synthesis of γ -CoOOH from α -Co(OH)₂ for energy storage device applications** **P3.H.122**
Lianet Aguilera Domínguez¹, Priscila Carvalho Machado Aguiar¹, Yurimiler Leyet Ruiz¹, Eduardo Padrón Hernández², Raimundo Ribeiro Passos¹, Leandro Aparecido Pocrifka¹; ¹Universidade Federal do Amazonas, ²Universidade Federal de Pernambuco
- 11:00 Electric behavior analysis of La_(2/3-x)Li_{3x}TiO₃ ceramic obtained by SPS** **P3.H.123**
Yurimiler Leyet Ruiz^{1,2}, Jonathas Pereira¹, Yonny Romaguera Barcelay¹, José Carlos Calado Junior¹, Jean Carlos Silva Andrade¹, Fidel Guerrero Zayas¹, Ylla Grasielle dos Santos Alves³, Ronaldo Santos da Silva³, Jose Anglada Rivera⁴, Yohandys Alexis Zulueta Leyva⁵; ¹Universidade Federal do Amazonas, ²Programa de pós graduação em Ciência e Engenharia de Materiais, ³Universidade Federal de Sergipe, ⁴Instituto Federal de Educação, Ciência e Tecnologia do Amazonas, ⁵Universidad de Oriente Santiago de Cuba
- 11:00 Non-conventional conducting state in granular superconducting Nb and Nb/ferromagnetic heterostructures** **P3.H.124**
ANDERSON SANTOS PASCHOA¹, TALES COSTA FREITAS¹, ALISSON CARLOS KROHLING¹, JORGE LUIZ Gonzalez Alfonso¹, Valberto Pedruzzi Nascimento¹, EDSON PASSAMANI CAETANO¹; ¹Universidade Federal do Espírito Santo
- 11:00 Efficiency conversion improvement of DSSCs through the introduction of benzothiazole in the electrolyte** **P3.H.125**
Larissa A. Santa Cruz¹, Thiago A. S. Soares, Giovanna Machado; ¹Universidade Federal de Pernambuco
- 11:00 Investigation of charge recombination lifetime in γ -WO₃ films modified with Ag⁰ and Pt⁰ nanoparticles and its influence on photocurrent density** **P3.H.126**
MARIA JOSEITA DOS SANTOS COSTA¹, GILSON DOS SANTOS COSTA¹, REGINALDO DA SILVA SANTOS¹; ¹Universidade Estadual do Piauí
- 11:00 V₂O₅-(TiO₂/WO₃) humidity sensors prepared by electrospinning and sintering: a chemometric study** **P3.H.127**
Victor Souza Leão¹, Ramiro Passos Guimarães², Sandy Monteiro², Evando Santos Araujo¹; ¹Fundação Universidade Federal do Vale do São Francisco, ²Universidade do Estado da Bahia
- 11:00 Magnetic cross-linked cellulase aggregates: synthesis and enzymatic activity** **P3.H.128**
Guilherme Nunes Lucena¹, Caroline Oliveira da Rocha¹, Ariela Veloso de Paula¹, Gabriel Cardoso Pinto¹, Miguel Jafelicci Júnior¹, Rodrigo Fernando Costa Marques¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

- 11:00 Hydrothermal synthesis of sodium titanate nanotubes for application in solid state electrolytes** P3.H.129
Lukas Augusto de Lima Basilio¹, Nathalia Guimarães Fagundes¹, Juliana Pereira da Silva¹, Eric Shimoto¹, José Carlos Calado Junior¹, Jean Carlos Silva Andrade¹, Jose Anglada Rivera², Yurimiler Leyet Ruiz¹; ¹Universidade Federal do Amazonas, ²Instituto Federal de Educação, Ciência e Tecnologia do Amazonas
- 11:00 Acid-Base Machine with Saline Feedback** P3.H.130
Gilberto Lima¹, Fritz Huguenin¹, Deepak P Dubal², Daniel Rueda-García², Pedro Gómez-Romero²; ¹Universidade de São Paulo, ²Catalan Institute of Nanoscience and Nanotechnology
- 11:00 Synthesis and characterization of Nb-Al₂O₃ anodic films prepared by Plasma Electrolytic Oxidation (PEO)** P3.H.131
Maria Angélica Cassú Menck¹, Yasmin Bastos Pisollito¹, Janaina Soares Santos¹, Francisco Trivinho Strixino¹; ¹Universidade Federal de São Carlos
- 11:00 Photoactive performance of titania aerogel suspension** P3.H.132
Geneviève Kreibich Pinheiro¹, Daliana Muller¹, Rafael Bento Serpa¹, Joseane Caroline Bernardes¹, Natani Demarco Coutinho¹, Carlos Renato Rambo¹; ¹Universidade Federal de Santa Catarina
- 11:00 Dual catalytic activity of Pd incorporated TiO₂ aerogels** P3.H.133
Joseane Caroline Bernardes¹, Eloah Latocheski¹, Daliana Muller¹, Josiel Barbosa Domingos¹, Carlos Renato Rambo¹; ¹Universidade Federal de Santa Catarina
- 11:00 Preparation of SBA-15 material impregnated with sulfonic group based catalyst** P3.H.134
Yrvana Pereira dos Santos Brito¹, Alex de Nazaré de Oliveira², José Roberto Zamian¹, Geraldo Narciso da Rocha Filho¹, Carlos Emmerson Ferreira da Costa¹, Luís Adriano Santos do Nascimento¹; ¹Universidade Federal do Pará, ²Universidade Federal do Amapá
- 11:00 Ultrafine Multifunctional Material Based on a Pigment with Potential as a Photocatalyst at Dye Degradation in an Alkaline Aqueous Medium** P3.H.135
Fabiano Rafael Praxedes¹, Marcos Augusto de Lima Nobre¹, Sylvania Lanfredi¹; ¹FCT-UNESP Campus de Presidente Prudente
- 11:00 Fabrication and Characterization of TiO₂ Nanowires Obtained by Thermal Oxidation** P3.H.136
Katia Franklin Albertin¹, Denise Criado²; ¹Fundação Universidade Federal do Abc, ²Universidade Federal do ABC
- 11:00 Synthesis of Na₂Ti₆O₁₃ nanoparticles by sonochemical method - A new approach** P3.H.137
Nathália Guimarães Fagundes¹, Yurimiler Leyet Ruiz^{1,2}, Lukas Augusto de Lima Basilio¹, Jose Anglada Rivera³, Juliana Pereira¹; ¹Universidade Federal do Amazonas, ²Programa de pós graduação em Ciência e Engenharia de Materiais, ³Instituto Federal de Educação, Ciência e Tecnologia do Amazonas
- 11:00 Nanostructures based in TiO₂ on titanium** P3.H.138
RENATA SANTOS SEIXAS¹, ISABELA DA ROCHA SILVA¹, JULIANA DO NASCIMENTO LUNZ¹, PAULA MENDES JARDIM¹; ¹Universidade Federal do Rio de Janeiro
- 11:00 New insights in the electrochemical conversion of CO₂ into valuable products** P3.H.139
Paola Villegas-Guzman¹, Jéssica Capires¹, Elisama Vieira dos Santos¹, Djalma Ribeiro da Silva¹, Carlos Alberto Martinez Huitle^{1,2}; ¹Universidade Federal do Rio Grande do Norte, ²Johannes Gutenberg Universität Mainz
- 11:00 Efficient electro-synthesis of valuable products from glycerol** P3.H.140
Paola Villegas-Guzman¹, AIMEE ATAIDE DE OLIVEIRA¹, Elisama Vieira dos Santos¹, Djalma Ribeiro da Silva¹, Carlos Alberto Martinez Huitle^{1,2}; ¹Universidade Federal do Rio Grande do Norte, ²Johannes Gutenberg Universität Mainz

- 11:00 Synthesis and Characterization of h-MoO₃ Synthesized by Hydrothermal Microwave Method** **P3.H.141**
Marcel Leiner De Sá¹, Maria Rita de Moraes Chaves Santos¹, Yvo Borges da Silva¹, Patrícia Alves de Abreu e Sousa¹, Heldeney Rodrigues de Sousa¹, Rogério Almiro Oliveira Silva¹, Valdivânia Albuquerque do Nascimento¹, Millena de Cassia Sousa e Silva¹, Francisco Xavier Nobre², Edgar Alves de Araújo Júnior¹; ¹Universidade Federal do Piauí, ²Instituto Federal de Educação, Ciência e Tecnologia do Amazonas
- 11:00 Non-isothermal kinetic methods for determination of activation energy of thermal and catalytic cracking of HDPE** **P3.H.142**
Tiago Gomes dos Santos¹, Anne Michele Garrido Pedrosa de Souza², Antonio Souza de Araujo³, Antonio Osimar Sousa da Silva¹, Marcelo José de Barros Souza²; ¹Universidade Federal de Alagoas, ²Universidade Federal de Sergipe, ³Universidade Federal do Rio Grande do Norte
- 11:00 Sonochemical synthesis of mixed-metal MOFs** **P3.H.143**
Bianka Cristina da Silva Siqueira¹, Ana Karina Pereira Leite², José Daniel Da Silva Fonseca¹, Otávio José de Lima Neto¹, Joanna Elzbieta Kulesza¹, Bráulio Silva Barros^{1,2}; ¹Universidade Federal de Pernambuco, ²Universidade Federal do Rio Grande do Norte
- 11:00 Catalysts based on Niobate with Tetragonal Tungsten Bronze Structure for Biodiesel Production Synthesized by the Spray Pyrolysis Method** **P3.H.144**
Silvania Lanfredi¹, Fabiano Rafael Praxedes¹, Elisabeth Djurado², Marcos Augusto Lima Nobre¹; ¹FCT-UNESP Campus de Presidente Prudente, ²Univ. Grenoble Alpes, LEPMI
- 11:00 Chemical Synthesis of New Perovskites Catalysts with Hollow Particles** **P3.H.145**
Silvania Lanfredi¹, Fernando Storti¹, Elisabeth Djurado², Marcos Augusto Lima Nobre¹; ¹FCT-UNESP Campus de Presidente Prudente, ²Univ. Grenoble Alpes, LEPMI
- 11:00 Development of H₂S and humidity retention nano filter from biogas** **P3.H.146**
Mateus Sousa Pinheiro¹, Gabrielle Dias Coelho¹, DIEGO CARDOSO DE SOUZA¹, Pilar Hidalgo Falla¹; ¹Universidade de Brasília
- 11:00 Structural and magnetic properties of Cobalt and Nickel ferrites obtained by the hydrothermal method** **P3.H.147**
ROSANE SARAIVA MELO¹, Adolfo Franco Júnior¹; ¹Universidade Federal de Goiás
- 11:00 Assembly of photovoltaic cells using natural and dyes extracted with solvents EtOH and DMSO** **P3.H.148**
Thiago Ferreira Gomes¹, Pilar Hidalgo Falla¹, Icoana Lais Leitão Mascarenhas Martins¹, Isabella Sene Santos Carneiro¹, Vanessa Lacerda Menzandes¹, Raquel da Silva Brito¹, Emerson Roberto Santos², Wang Hui²; ¹Universidade de Brasília, ²Escola Politécnica de Universidade de São Paulo
- 11:00 SnO₂ doped with Fe, Mg and Co Diluted Magnetic Semiconductor Oxide** **P3.H.149**
Marcus Vinicius Badaró de Oliveira Ribeiro¹, Isa Moreira da Silva Santos¹, Taynã Isis de Santana Santana¹, Francisco Anderson Sousa Lima¹; ¹Faculdade de Tecnologia Senai Cimatec

SESSION H. 03 (14:00 - 16:15) - Room Flamboyant 2

- 14:00 Using tungsten-based semiconductors/carbon mixtures as self-cleaning coatings in indoor environments** **H.O3.1***
Conchi O Ania¹, Alicia Gomis-Berenguer¹; ¹Centre National de la Recherche Scientifique

- 14:30 Metal-to-insulator transition induced by UV illumination in a single SnO₂ nanobelt** H.O3.2
Emilson Ribeiro Viana Junior¹, Geraldo Mathias Ribeiro², Alfredo Gontijo de Oliveira², Juan Carlos González²; ¹Universidade Tecnológica Federal do Paraná, ²Universidade Federal de Minas Gerais
- 14:45 Design of Ti-NbFe alloys for hydrogen storage applications** H.O3.3
Ricardo Floriano¹, Rodrigo José Contieri¹, Alessandra Cremasco¹, Rafael de Araujo Silva²; ¹Faculdade de Ciências Aplicadas, ²Federal University of Sao Carlos
- 15:00 ZnO /MOF UiO-66 composites: structure, morphology and photoelectrochemical properties** H.O3.4
Tatiana Martelli Mazzo¹, Letícia Guerreiro da Trindade², Katiúscia Nobre Borba², Letícia Zanchet², Katia Bernardo Gusmão², Elson Longo³; ¹Universidade Federal de São Paulo, ²Universidade Federal do Rio Grande do Sul, ³Universidade Federal de São Carlos
- 15:15 On the enhanced photocatalytic activity of Pt and Co nanoparticles decorated monoclinic BiVO₄** H.O3.5
Luiz E. Gomes¹, Kamilla Z. S. Camy¹, Renato Vitalino Gonçalves², Heberton Wender¹; ¹Universidade Federal de Mato Grosso do Sul, ²Universidade de São Paulo
- 15:30 CoNi/C electrocatalysts for alkaline fuel cell.** H.O3.6
Roberta Alvarenga Isidoro¹, Gabriel Silveira Dos Santos¹, Fabio Coral Fonseca¹; ¹Instituto de Pesquisas Energéticas e Nucleares

WEDNESDAY, SEPTEMBER 19

Oral presentations

* Invited Lecture

SESSION H. 01 (09:30 - 10:30) - Room Cedro 6

- 09:30 Nanoporous Carbons for Solar Fuels Production** H.O1.1*
Juan Matos¹; ¹University of Concepcion
- 10:00 Atomic Layer Deposited TiO₂ thin films for High-Efficiency Solid-State Perovskite Solar Cells** H.O1.2
Swarup Kundu¹, João Paulo de Campos da Costa², Elson Longo³, Maria Aparecida Zaghete¹; ¹Instituto de Química de Araraquara, ²University of Sao Paulo, ³Federal University of Sao Carlos
- 10:15 Synthesis of ZnO rod arrays on aluminum recyclable paper and effect of the rod size on power density of eco-friendly nanogenerators** H.O1.3
 Saionara Vilhegas Costa¹, Talita Mazon¹, Nilsa Toyoko Azana¹, Pei Jen Shieh¹; ¹Center for Information Technology Renato Archer

SESSION H. 03 (14:00 - 16:15) - Room Cedro 6

- 14:00 Effect of Pd content on the catalytic activity of PtPd/C binary electrocatalysts for ethylene glycol oxidation** H.O3.1
Vera Lucia da Silva Marinho^{1,2}, Raimundo Ribeiro Passos²; ¹Instituto Federal de Educação, Ciência e Tecnologia do Amazonas, ²Universidade Federal do Amazonas

- 14:15 The Cu²⁺/Zn²⁺ cation exchange in Zn:CdS thin films: A synaptic electrochemical memristor** **H.O3.2**
 Mirko Congiu¹, Miguel Henrique Boratto^{2,1}, Carlos F. O. Graeff¹; ¹Faculdade de Ciências - UNESP - Campus de Bauru, ²Universidade Federal de Santa Catarina
- 14:30 Improvement metanol production by Nb, Ta and W doped TiO₂ powders and Pt decorated thick films** **H.O3.3**
 Marcelo Vianna Nogueira¹, Giovana Cristina Da Silva¹, Miguel Ruiz¹, Elias de Souza Monteiro Filho¹, Maria Aparecida Zaghet¹, Elson Longo², Leinig Antonio Perazolli¹; ¹Instituto de Química de Araraquara, ²Universidade Federal de São Carlos
- 14:45 Synthesis of MCM-41 mesoporous material from Amazonian kaolin** **H.O3.4**
Yrvana Pereira dos Santos Brito¹, Alex de Nazaré de Oliveira², José Roberto Zamian¹, Geraldo Narciso da Rocha Filho¹, Carlos Emmerson Ferreira da Costa¹, Luís Adriano Santos do Nascimento¹; ¹Universidade Federal do Pará, ²Universidade Federal do Amapá
- 15:00 Investigation of Photocatalytic Potential of Alkaline Niobate Nanoparticles Obtained by Spray-Pyrolysis** **H.O3.5**
Fabiano Rafael Praxedes¹, Silvania Lanfredi¹, Marcos Augusto de Lima Nobre¹; ¹FCT-UNESP Campus de Presidente Prudente
- 15:15 Development and characterization of CoOOH-Ni(OH)₂ bilayer films for application in energy storage devices** **H.O3.6**
Lianet Aguilera Domínguez¹, Yurimiler Leyet Ruiz¹, Raimundo Ribeiro Passos¹, Leandro Aparecido Pocrifka¹; ¹Universidade Federal do Amazonas
- 15:30 Advanced X-ray diffraction methods for van der Waals epitaxial films** **H.O3.7**
Sergio L. Morelhao^{1,2}, Samuel Netzke¹, Stefan Kycia¹, Celso Israel Fornari³, Paulo H. O. Rapp³, Eduardo Abramof³; ¹University of Guelph, ²Instituto de Física, Universidade de São Paulo, ³National Institute for Space Research
- 15:45 Sonochemical method: a new route for the synthesis for the Na₂Ti₆O₁₃ phase.** **H.O3.8**
Diego Guedes Pereira^{1,2}, Yurimiler Leyet Ruiz^{1,2}, Nathália Guimarães Fagundes^{1,2}, Lukas Augusto de Lima Basilio¹, Calado Junior¹, Jose Anglada Rivera³, Juliana Pereira¹; ¹Universidade Federal do Amazonas, ²Programa de pós graduação em Ciência e Engenharia de Materiais, ³Instituto Federal de Educação, Ciência e Tecnologia do Amazonas

SYMPOSIUM I - Functional polymer composites for electronics and energy applications

Symposium organizers:

Ricardo J Zednik (Ecole de Technologie Supérieure de Montreal, Canada)

Guilhermino Jose Macedo Fechine (MackGraphe)

Nicole R Demarquette (Ecole de Technologie Supérieure de Montreal, Canada)

TUESDAY, SEPTEMBER 18

Poster presentations

SESSION P4 (18:00 - 19:30)

- 18:00 Study of the electrical conduction mechanisms of PANI on Tyvek substrate** P4.I.1
Alana Fernandes Golin¹, Rodrigo Fernando Bianchi¹; ¹Universidade Federal de Ouro Preto
- 18:00 Thermal Analysis Of Sodium Alginate/Clay Nanocomposites For Use As Solid Polymer Electrolyte** P4.I.2
Franciani Sentanin¹, Rodrigo C Sabadini¹, Willian Robert Caliman¹, Rui Pereira², Maria Manuela Silva², Agnieszka Pawlicka¹, Carla Schmitt Cavalheiro¹; ¹Instituto de Química de São Carlos, ²Universidade do Minho
- 18:00 Morphological characterization of the poly(aniline-4-aminophenol) copolymer for biosensing applications** P4.I.3
Mônica Silva Segatto¹, Fernanda Silva Soler¹, Carlos Alberto Petersen de Oliveira¹, Ana Graci Brito Madurro¹, João Marcos Madurro¹; ¹Universidade Federal de Uberlândia
- 18:00 Theoretical study of PANi(DBSA) synthesis - part I: synthesis of anilinium(DBS) salt** P4.I.4
Eudes Ribeiro Silva¹, José Divino dos Santos¹, Olacir Alves Araújo¹; ¹Universidade Estadual de Goiás
- 18:00 Glycerol functionalized with monocarboxylic acids for application as monomers and fuels additives** P4.I.5
Daniella Cintra Hilário¹, Érica Lima de Oliveira¹, Olacir Alves Araújo¹; ¹Universidade Estadual de Goiás
- 18:00 Comparative study of supercapacitor electrodes by impedance spectroscopy using equivalent circuit models** P4.I.6
Maykel Santos Klem¹, Rogério Miranda Morais¹, Gabriel Leonardo Nogueira¹, Neri Alves¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 18:00 Aspects of PANi conducting polymer addition in active mass of lead–acid batteries** P4.I.7
Leonardo Clemente Traversa¹, Fabiana Navas Reis¹, Beatriz Antoniassi¹, Herbert Duchatsch Johansen¹; ¹Universidade do Sagrado Coração
- 18:00 Synthesis of iron oxide nanoparticles and the production of nanocomposites with PVA** P4.I.8
Maxsuillian Raimundo Detogni¹, Marcos Roberto Mauricio², Gizilene Maria Carvalho¹; ¹Universidade Estadual de Londrina, ²Universidade Estadual de Maringá
- 18:00 Properties and fuel cell performance of composite speak/ionic liquid polymer membranes** P4.I.9
Letícia Guerreiro da Trindade¹, Letícia Zanchet¹, Josiane Carneiro Souza², Emilse Maria Agostini Martini¹, Ernesto Chaves Pereira²; ¹Universidade Federal do Rio Grande do Sul, ²Universidade Federal de São Carlos
- 18:00 Study of electrical conductivity of the polymer light electrochemical cells** P4.I.10
Washington da Silva Sousa¹; ¹Universidade Federal do Maranhão
- 18:00 Morphological and photophysical properties of thin films of polyvinylcarbazole deposited via spin-coating** P4.I.11
Diéricon Sousa Cordeiro¹, Tatiana Duque Martins¹; ¹Universidade Federal de Goiás

- 18:00 Preparation and characterization of copolymers based on 2,5-(dithienyl)pyrrole derivative with EDOT** P4.I.12
Ana Julia Cavalcante da Silva¹, Jorge de Lima Neto¹, Luis Paulo Alves da Silva¹, Amanda dos Santos Tintino¹, Anna Paula Lins dos Anjos Santos¹, Dimas José da Paz Lima¹, Adriana Santos Ribeiro¹; ¹Universidade Federal de Alagoas
- 18:00 Effect of ionic liquid on rheological and electrical properties of Epoxy resin/Graphene-Carbon Nanotubes hybrids dispersions** P4.I.13
Anna Paula Azevedo de Carvalho¹, Bluma Guenther Soares¹; ¹Universidade Federal do Rio de Janeiro
- 18:00 Development of Poly(trimethylene terephthalate) and Acrylonitrile-Butadiene Styrene - (PTT/ABS) blends for potential use in antistatic packaging** P4.I.14
Natália Ferreira Braga¹, Henrique Morales Zaggo¹, Gleice Ellen Almeida Verginio¹, Thaís Larissa do Amaral Montanheiro², Fabio Roberto Passador¹; ¹Universidade Federal de São Paulo, ²Instituto Tecnológico de Aeronáutica
- 18:00 Thermal analysis of gelatin/clay nanocomposites for use as solid polymer electrolyte.** P4.I.15
Rodrigo C Sabadini¹, Franciani Sentanin¹, Willian Robert Caliman¹, Aline C Sabadini², Sandra C BARROS³, Maria Manuela Silva³, Jerzy Kanicki⁴, Agnieszka Pawlicka¹, Carla Schmitt Cavalheiro¹; ¹Instituto de Química de São Carlos, ²Instituto Federal de Mato Grosso do Sul, ³Universidade do Minho, ⁴University of Michigan
- 18:00 Magnetic properties of flexible conductive nanocellulose membranes incorporated with MnO₂ and polypyrrole** P4.I.16
Gabriella Melo Viana Dias¹, Bruno Neckel Wesling¹, Daliana Muller¹, José Antônio Souza², Carlos Renato Rambo¹; ¹Universidade Federal de Santa Catarina, ²Universidade Federal do ABC
- 18:00 Properties of the SPEEK/Y₂O₃ membranes with different degrees of sulfonation for polymer electrolyte membrane fuel cell applications** P4.I.17
Jacqueline Costa Marrero¹, Ailton de Souza Gomes¹, Jose Carlos Dutra Filho¹; ¹Instituto de Macromoleculas Professora Eloisa Mano
- 18:00 Characterization of the electrical and mechanical properties of three-phase composites natural rubber/leather waste/PZT** P4.I.18
Diego Silva Melo¹, Pedro Henrique Ferrarezi Rodrigues¹, Carlos Toshiyuki Hiranobe², Renivaldo Jose Santos¹, Aldo Eloizo Job², Michael Jones Silva¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²FCT-UNESP Campus de Presidente Prudente
- 18:00 Synthesis and self-assembly in saline media of PEOppo grafted onto HPAM** P4.I.19
Bruna Luiza Batista de Lima¹, Nívia do Nascimento Marques¹, Marcos Antonio Villetti², Rosangela de Carvalho Balaban¹; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Federal de Santa Maria
- 18:00 Electrical and electromagnetic interference shielding properties of conducting poly(vinylidene fluoride) composites with different carbonaceous nanofillers** P4.I.20
Ana Paula Wünsch Boitt¹, Guilherme Mariz de Oliveira Barra¹, Luiz Gustavo Ecco¹; ¹Universidade Federal de Santa Catarina
- 18:00 Polyurethane / Montmorillonite-Polypyrrole polymer composites: preparation, characterization and possible applications** P4.I.21
Giseli Contri¹, Guilherme Mariz de Oliveira Barra¹, Claudia Merlini¹, Luiz Gustavo Ecco¹; ¹Universidade Federal de Santa Catarina
- 18:00 Structure and properties of conductive composites based on poly(butylene adipate-co-terephthalate) and montmorillonite-polypyrrole (PBAT/MMt-PPy.DBSA)** P4.I.22
Bruna dos Santos Rosa¹, Claudia Merlini¹, Sébastien Livi², Guilherme Mariz de Oliveira Barra¹; ¹Universidade Federal de Santa Catarina, ²Institut National des Sciences Appliquées de Lyon

- 18:00 Electronic properties of polyaniline in cellulose composite material** P4.I.23
Wflander Martins Souza¹, Daniel Silva Calheiro¹, Ana Carolina Kelmer¹, Gislayne Elisana Gonçalves², Rodrigo Fernando Bianchi¹; ¹Universidade Federal de Ouro Preto, ²Instituto Federal de Educação, Ciência e Tecnologia de Minas Gerais
- 18:00 Incorporation, characterization, and application of integrated sensors to assess local humidity changes in fully-enclosed paper-based devices** P4.I.24
Cátia Crispilho Corrêa¹, Murilo Santhiago¹, Priscila Gonçalves Costa^{2,1}, Vitória Brito Morais^{2,1}, Mariane Peres Pereira¹, Carlos Cesar Bof Bufon¹; ¹Brazilian Nanotechnology National Laboratory, ²Universidade Estadual de Campinas
- 18:00 Preparation and characterization of biodegradable and antistatic packaging for electronic components of poly (lactic acid)/lignin/carbon black composites** P4.I.25
THAIS FERREIRA DA SILVA¹, FERNANDA MENEZES¹, Ana Paula Lemes¹, FABIO ROBERTO PASSADOR¹; ¹Universidade Federal de São Paulo
- 18:00 Evaluation of mechanical and thermal properties of Polyamide 12 and Cloisite 30B clay nanocomposites** P4.I.26
Ana Paula Fonseca Albers¹, Fabio Roberto Passador¹, Guilherme Ferreira de Melo Morgado¹; ¹Universidade Federal de São Paulo
- 18:00 Graphene Oxide and PEDOT:PSS, a new electrode proposal** P4.I.27
Soheila Holakoei¹, Lucas Ferreira Lima², Matheus Felipe Fagundes das Neves², Bruno Gabriel Borges¹, Carolina Ferreira de Matos³, Aldo J.G. Zarbin², Lucimara Stolz Roman², Cássia Curan Turci¹, Maria Luiza Miranda Rocco¹; ¹Universidade Federal do Rio de Janeiro, ²Universidade Federal do Paraná, ³Fundação Universidade Federal do Pampa
- 18:00 Synthesis of hydrogels based on HPAM and Polyethyleneimine with potential applicability in conformance control in oil reservoirs** P4.I.28
Kaique Alves Brayner Pereira^{1,2}, Kelly Lúcia Nazareth Pinho de Aguiar^{1,2}, Claudia Regina Elias Mansur^{1,2}, Priscila Frias de Oliveira^{1,2}, Matheus de Souza Lima Mendes^{1,2}; ¹Universidade Federal do Rio de Janeiro, ²Instituto de Macromoléculas Professora Eloisa Mano
- 18:00 Development of nanocomposites polymer hydrogels for application in enhanced oil recovery** P4.I.29
Kelly Lúcia Nazareth Pinho de Aguiar¹, Kaique Alves Brayner Pereira¹, Priscila Frias de Oliveira¹, Claudia Regina Elias Mansur¹, Matheus de Souza Lima Mendes¹; ¹Universidade Federal do Rio de Janeiro
- 18:00 Pressure sensitive nanocomposites of polymer matrices filled with reduced graphene oxide** P4.I.30
Marcello Pojucan Magaldi Santos¹, Leticia Alves da Silva², Jéssica Menezes de Mélo Luzardo^{2,1}, Kelly Leite dos Santos Castro Assis^{2,1}, Sanair Massafra Oliveira^{2,1}, Joyce Rodrigues Araujo¹; ¹Instituto Nacional de Metrologia, Qualidade e Tecnologia, ²Universidade Federal do Rio de Janeiro
- 18:00 Preparation and Characterization of P3HT/TiO₂ Nanocomposites** P4.I.31
Aline Ingrid Alves dos Reis Almeida¹, Hállen Daniel Rezende Calado¹, Gabriella Correia de Almeida¹, Luíza De Lazari Ferreira¹, Marcus Henrique de Araújo¹, Marcelo Machado Viana¹; ¹Universidade Federal de Minas Gerais
- 18:00 Obtaining and characterizing a composition of polyester resin matrix and wood residues produced in marcenary** P4.I.32
Luiz Guilherme Meira de Souza¹, Luan Carvalho Santana Oliveira¹, Luiz Guilherme Vieira Meira De Souza¹, Zulmar Jofli Santos Júnior¹, Kristy Emanuel Silva Fontes², Luan Mayk Torres Costa¹; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Federal Rural do Semi-Árido

- 18:00 Development of poly(lactic acid)/carbon nanotubes nanocomposites for applications in antistatic and biodegradable packaging** P4.I.33
Gleice Ellen Almeida Verginio¹, Matheus Domingues Silva¹, Karen Alcântara de Almeida Barbosa¹, Natália Ferreira Braga¹, Thaís Larissa do Amaral Montanheiro², Ana Paula Lemes¹, Fabio Roberto Passador¹; ¹Universidade Federal de São Paulo, ²Instituto Tecnológico de Aeronáutica
- 18:00 Photophysics and OLEDs in TADF Polymers.** P4.I.34
Roberto Shiguero Nobuyasu¹, Zhongjie Ren¹, Fernando B. Dias¹; ¹Durham University
- 18:00 Optical processes in hybrid semiconductor nanowires formed by heterostructures of GaAs/AlGaAs/GaAs and conjugated polymer with potential application in photovoltaic devices** P4.I.35
Raphael Antonio Caface¹, Francisco Eduardo Gontijo Guimarães¹; ¹Instituto de Física de São Carlos
- 18:00 Non-isocyanate polyurethane (NIPU) obtained by co-products from the biofuels industries** P4.I.36
Ariana Freire Andrade¹, Rodrigo Biscoaro Nogueira², Christiano Luna Arraes²; ¹Universidade Estadual de Campinas, ²Universidade Federal do Amazonas
- 18:00 Technological Prospction on the Applications of Polyphenols modified by Graphene** P4.I.37
Millena de Cassia Sousa e Silva¹, Valdivânia Albuquerque do Nascimento¹, Patrícia Alves de Abreu e Sousa¹, Rejane Teixeira do Nascimento¹, Heldeney Rodrigues de Sousa¹, Marcel Leiner De Sá¹, Yvo Borges da Silva¹, Hitalo de Jesus Bezerra da Silva¹, Moisés das Virgens Santana¹, João Batista de Oliveira Libório Dourado¹, Rogério Almiro Oliveira Silva¹, Maria Rita de Moraes Chaves Santos¹; ¹Universidade Federal do Piauí
- 18:00 Electrochemically synthesized polypyrrole nanotubes for flexible supercapacitors development** P4.I.38
Bruna M. Hryniewicz¹, Renata Vieira Lima¹, Franciele Wolfart¹, Marcio Vidotti¹; ¹Universidade Federal do Paraná
- 18:00 Effect of accelerated aging on glass fiber reinforced polyester** P4.I.39
Ângelo Gabriel Melo dos Reis de Albuquerque¹, Evans Paiva da Costa Ferreira¹, Maria Carolina Burgos Costa¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Effect of Temperature on MRE Magnetic nanocomposites (SR/IRON) designed to vibration absorption systems** P4.I.40
Felipe Silva Bellucci^{1,2}, Jeferson Camargo Fukushima¹, Daniel Henrique de Sousa Obata¹, Fabricio C. L. Almeida³, Aldo Eloizo Job⁴, Amarildo Tabone Paschoalini¹; ¹Faculdade de Engenharia de Ilha Solteira - UNESP, ²Ministério da Ciência, Tecnologia, Inovação e Comunicações, ³Universidades Estadual Paulista Júlio de Mesquita, ⁴FCT-UNESP Campus de Presidente Prudente
- 18:00 Study of the effect of the different solvents and of the ionic liquid in the synthesis of polyaniline and in blends containing PVDF** P4.I.41
Ketly Pontes Soares¹, Bluma Guenther Soares¹; ¹Universidade Federal do Rio de Janeiro
- 18:00 Obtaining and study a composite with polyester resin and load of chicken eggshell** P4.I.42
Micaela Freitas Andrade¹, Luiz Guilherme Meira de Souza¹, Mariana Lima Oliveira¹, Ivanca Medeiros Dantas¹, Kristy Emanuel Silva Fontes²; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Federal Rural do Semi-Árido
- 18:00 Improved gellan gum-clay nanocomposites solid polymer electrolites** P4.I.43
William Robert Caliman¹, Franciani Sentanin¹, Rodrigo C Sabadini¹, Carla Schmitt Cavalheiro¹, Agnieszka Pawlicka¹; ¹Instituto de Química de São Carlos

18:00 Synthesis and characterization of polyester obtained from natural product norbixin and propylene glycol P4.I.44

Dennis do Nascimento Cruz¹, Deuzuita dos Santos Freitas Viana², Charlylton Luis Sena da Costa³, Vicente Galber Freitas Viana¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Piauí, ²Universidade Estadual do Maranhão, ³Faculdade Santo Agostinho

18:00 Synthesis and characterization of polyester resin obtained from the natural product curcumin and norbixin P4.I.45

Marco Aurélio da Silva Coutinho¹, Abrão Leal Alves¹, Eziel Cardoso da Silva¹, Antonio Zilverlan Germano Matos¹, Deuzuita dos Santos Freitas Viana², Charlylton Luis Sena da Costa³, Vicente Galber Freitas Viana¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Piauí, ²Universidade Estadual do Maranhão, ³Faculdade Santo Agostinho

WEDNESDAY, SEPTEMBER 19

Oral presentations

* Invited Lecture

SESSION I. 01 (09:30 - 10:30) - Room Álamo 1

09:30 Processing-Structure-Properties Relationships in Thermoplastic Polyurethane/Graphene Oxide Nanocomposites: Theory Meets Practice to Achieve Much Improved Properties I.O1.1*

Joao Maia¹, Chaitanya Danda¹, Leice Amurin², Ricardo Andrade³, Tyler Schneider¹, Guilhermino José Macedo Fechine^{3,2}; ¹Case Western Reserve University, ²Graphene and Nanomaterials Research Center - Mackgraphe, Mackenzie Presbyterian University, ³Universidade Presbiteriana Mackenzie

10:00 Challenges in the manufacturing of polymeric nanocomposites based on bidimensional fillers I.O1.2

Guilhermino José Macedo Fechine^{1,2}; ¹Universidade Presbiteriana Mackenzie, ²Graphene and Nanomaterials Research Center - Mackgraphe, Mackenzie Presbyterian University

10:15 Photodegradation of polypropylene-graphene oxide nanocomposites: effect of morphology and structure I.O1.3

Yuri Durighetto Coelho de Oliveira¹, Leice Amurin¹, Fernanda Cabrera Flores Valim¹, Alice Donato¹, Guilhermino Fechine¹, Ricardo Andrade¹; ¹Graphene and Nanomaterials Research Center - Mackgraphe, Mackenzie Presbyterian University

SESSION I. 02 (11:00 - 12:00) - Room Álamo 1

11:00 Polyolefin/ carbon nanotubes containing iron nanocomposites: A comparative study of different methods of preparation I.O2.1

Muhammad Nisar¹, Maria da Graça Sebag Bernd¹, Luiz C.P. da Silva Filho¹, Julian Geshev¹, Carlos Pérez Bergmann¹, Griselda Barrera Galland¹; ¹Universidade Federal do Rio Grande do Sul

- 11:15 Nafion/CsHSO₄ Hybrids SAXS/ WAXS/ XAS Studies** **I.O2.2**
José Fernando Queiruga Rey¹, Bruno Ribeiro Matos², Alessandro Longo³, Fabio Coral Fonseca², Daniel Hermida Merino³; ¹Universidade Federal do ABC, ²Instituto de Pesquisas Energéticas e Nucleares, ³Netherlands Organisation for Scientific Research
- 11:30 Fabrication of inverse nanoparticle–polymer–composites by improving electrical conductivity of indium tin oxide nanoparticles via monomer imbibition** **I.O2.3**
Ron Hoffmann^{1,2}, Valentin Baric³, Hendrik Naatz³, Lutz Mädler³, Andreas Hartwig^{1,2}; ¹Universität Bremen, ²Fraunhofer Institute for Manufacturing Technology and Advanced Materials, ³Leibniz Institute for Materials Engineering IWT

SESSION I. 03 (14:00 - 16:15) - Room Álamo 1

- 14:00 Prussian Blue crystallites anchored on graphene substrate as a highly stable electrode for symmetrical supercapacitor** **I.O3.1**
Lindiomar Borges Avila Junior¹, Mohmmad Khalid², Bruna Fernanda Baggio¹, Milton Andre Tumelero³, André Avelino Pasa¹; ¹Universidade Federal de Santa Catarina, ²Universidade de São Paulo, ³Universidade Federal do Rio Grande do Sul
- 14:15 Electrosynthesis of CdS quantum dots coated with substituted pyrrole monomers** **I.O3.2**
Iago Ramon Vasconcelos¹, Denilson de Vasconcelos Freitas¹, Amanda Gisele Silva¹, Jéssica Monteiro Dias¹, Felipe Leon Nascimento Sousa¹, Marcelo Navarro¹; ¹Universidade Federal de Pernambuco
- 14:30 Polymeric composites based gas sensors.** **I.O3.3**
Felipe de Andrade De Andrade Silva^{1,2}, Severino Alves Júnior³, Daniel de Filgueiras Gomes³, Ana Paula Silveira Paim³, José Fernando Dagnone Figueiredo^{1,2}; ¹Universidade Federal Rural de Pernambuco, ²Unidade Acadêmica do Cabo de Santo Agostinho, ³Universidade Federal de Pernambuco
- 14:45 Influence of Nanoparticles on the Electrical and Mechanical Properties of SEBS Block Copolymers** **I.O3.4**
Daniel Alves Heinze¹, Danilo Justino Carastan¹; ¹Fundação Universidade Federal do Abc
- 15:00 Synthesis of novel periodic mesoporous organosilicas containing 1,4,5,8-naphthalenediimides within the pore walls and their reduction to generate wall-embedded free radicals** **I.O3.5**
Sergio Brochsztain¹; ¹Universidade Federal do ABC
- 15:15 Organic electrochemical supercapacitor based on a hierarchical PEDOT/Carbon nanotube/(eggshell membrane) composite** **I.O3.6**
Romário Justino da Silva¹, José Jarib Alcaraz Espinoza^{1,2}, Celso Pinto de Melo¹, Helinando Pequeno de Oliveira²; ¹Universidade Federal de Pernambuco, ²Fundação Universidade Federal do Vale do São Francisco

THURSDAY, SEPTEMBER 20

Oral presentations

* Invited Lecture

SESSION I. 01 (09:30 - 11:00) - Room Cedro 5

- 09:30 Development of LDPE/glassy carbon composites for antistatic packaging** **I.O1.1**
Maikon Stefano dos Santos¹, Larissa Stieven Montagna¹, Mirabel Cerqueira Rezende¹, Fabio Roberto Passador¹; ¹Universidade Federal de São Paulo
- 09:45 Synthesis and application of polymer composites on textiles as supercapacitors and antibacterial agents** **I.O1.2**
Ravi Moreno A. P. Lima¹, José Jarib Alcaraz Espinoza¹, Fernando A. G. da Silva Jr.¹, Helinando Pequeno de Oliveira¹; ¹Fundação Universidade Federal do Vale do São Francisco
- 10:00 Ion-selective membranes for removal of ionic compounds from paper and cellulose effluents** **I.O1.3**
Luan Amaral de Souza¹, Franco Dani Rico Amado¹, Marco Antônio Siqueira Rodrigues², Gabriel Figueredo de Souza¹; ¹Universidade Estadual de Santa Cruz, ²Universidade Feevale
- 10:15 Ambipolar Triple Cation Perovskite Field Effect Transistors and Inverters** **I.O1.4**
Wilson José Da Silva¹, Abd. Rashid bin Mohd Yusoff², Fabio Kurt Schneider¹, Yong Soo Cho²; ¹Universidade Tecnológica Federal do Paraná, ²Yonsei University
- 10:30 Efficient mesoporous carbons derived from casein for electrochemical supercapacitors** **I.O1.5**
Vanessa Hafemann Fragal¹, Elizângela Hafemann Fragal¹, Adley Forti Rubira¹, Rafael Silva¹, Tewodros Asefa²; ¹Universidade Estadual de Maringá, ²Rutgers University
- 10:45 Synthesis and Characterization of PVDF/PANI and PVDF/POMA films by electrospinning and casting techniques** **I.O1.6**
Hugo Gajardoni de Lemos¹, Luis Marcelo G da Silva², Gabriella Santana Calicchio¹, Patricia Lins da Silva¹, Sydney Ferreira Santos¹, Everaldo Carlos Venancio¹; ¹Universidade Federal do ABC, ²Fundação Universidade Federal do Abc

SYMPOSIUM J - Solar driven (photo)electrochemical processes and solar energy conversion

Symposium organizers:

Ana Flavia Nogueira (UNICAMP)
Claudia Longo (UNICAMP)
Flavio L. de Souza (UFABC)
Jilian Nei de Freitas (CTI Renato Archer)

TUESDAY, SEPTEMBER 18

Poster presentations

SESSION P3 (11:00 - 12:30)

- 11:00 A low cost small bench scale reactor for water photolysis** **P3.J.150**
Ricardo Nascimento Pombo do Amaral¹, Nilson do Espírito Santo Pires Neto¹, Paula Roberta Nazareth de A. Martins¹, Sonia Letichevsky¹, Roberto R de Avillez¹; ¹Pontificia Universidade Católica do Rio de Janeiro
- 11:00 Degradation study in perovskite films under environment atmosphere** **P3.J.151**
Eralci Moreira Therézio^{1,2}, Rodrigo Szostak², Karsten Bruenegin³, Michael Toney³, Ana Flávia Nogueira²; ¹Universidade Federal de Mato Grosso, ²Universidade Estadual de Campinas, ³Stanford University
- 11:00 Micro-nanotexturization on silicon photoelectrodes to optimize the photoelectrochemical response to obtain renewable fuels from water** **P3.J.152**
Rodrigo Carvalho de Campos¹, Mário Lúcio Moreira², Dario Eberhardt¹, Paulo Ricardo da Silva Pereira³, Leticia Zucolotto dos Santos¹, Adriano F. Feil¹; ¹Pontificia Universidade Católica do Rio Grande do Sul, ²Universidade Federal de Pelotas, ³Universidade do Vale do Rio dos Sinos
- 11:00 Study of the BaTiO₃@CaF₂ system for application in DSSCs** **P3.J.153**
Tatiane Strelow Lilge^{1,2}, Mário Lúcio Moreira³, Claudiane dos Santos¹, Cristian Dias Fernandes³, Luciano Gularte³, Pedro L. G. Jardim³, Mario Ernesto Giroldo Valerio¹; ¹Universidade Federal de Sergipe, ²Programa de Pós-Graduação em Física, ³Universidade Federal de Pelotas
- 11:00 Photovoltaic study of perovskite solar cells by means of heterojunctions** **P3.J.154**
Ananda Ramires das Neves Stigger¹, Natan Mendes Casero¹, Thissiana da Cunha Fernandes¹, Cristiane Raubach Ratmann¹, Mário Lúcio Moreira¹; ¹Universidade Federal de Pelotas
- 11:00 Energy conversion using TiO₂/MgTiO₃ nanocrystals as photoelectrodes** **P3.J.155**
Thissiana da Cunha Fernandes¹, Ananda Ramires das Neves Stigger¹, Mário Lúcio Moreira¹; ¹Universidade Federal de Pelotas
- 11:00 Fabrication of solar cells based in graphene oxide film** **P3.J.156**
Marina Sparvoli¹, José Flávio Monteiro¹; ¹Universidade Federal do ABC
- 11:00 Performance evaluation of Strontium titanate@Zinc Sulfide based photoelectrodes for application to dye-sensitized solar cells** **P3.J.157**
Natan Mendes Casero¹, Ananda Ramires das Neves Stigger¹, Mário Lúcio Moreira¹, Fabio Calcagno Riemke¹, Cristiane Raubach Ratmann¹; ¹Universidade Federal de Pelotas
- 11:00 Insights into the role of CuO in the CO₂ photoreduction process: a discussion about CuO phase stability and the effect of the electrolyte in photocatalytic activity** **P3.J.158**
Andre Esteves Nogueira^{1,2}, Jéssica Ariane Oliveira³, Gelson Tiago dos Santos Tavares Silva³, Caue Ribeiro³; ¹Centro Nacional de Pesquisa em Energia e Materiais, ²Brazilian Nanotechnology National Laboratory, ³Empresa Brasileira de Pesquisa Agropecuária - Embrapa Instrumentação - CNPdia

- 11:00 Enhanced stability of organic solar cells using Fe-doped SnO₂ nanoparticles** P3.J.159
Maurício Sousa Pereira¹, Francisco Anderson Sousa Lima², Thiago Soares Ribeiro¹, Antonio Sérgio Bezerra Sombra¹, Igor Frota Vasconcelos¹; ¹Universidade Federal do Ceará, ²Dortech Technology
- 11:00 Structural, magnetic and optical properties of cobalt ferrite nanoparticles and their application in flexible organic solar cells** P3.J.160
Maurício Sousa Pereira¹, Francisco Anderson Sousa Lima², Luis Paulo Mourão dos Santos¹, Juliana Luiza Martins³, Diego Bagnis³, Antonio Sérgio Bezerra Sombra¹, Igor Frota Vasconcelos¹; ¹Universidade Federal do Ceará, ²Dortech Technology, ³CSEM Brasil
- 11:00 Investigation of the polymer role in hybrid polymer:quantum dot solar cells** P3.J.161
Jilian Nei de Freitas¹, João Paulo Carvalho Alves², Ana Flávia Nogueira²; ¹Center for Information Technology Renato Archer, ²Universidade Estadual de Campinas
- 11:00 Effects of Abrupt Temperature Variations on Perovskite Solar Cells** P3.J.162
Rafael Bento Serpa¹, Carlos Renato Rambo¹, Françoise Toledo Reis¹, Maria Luisa Sartorelli¹; ¹Universidade Federal de Santa Catarina
- 11:00 Remediation of amoxicillin aqueous solution using metal oxides photoelectrodes** P3.J.163
Jéssyca Ferreira de Medeiros¹, Miguel Tayar Galante², Claudia Longo¹; ¹Universidade Estadual de Campinas, ²Instituto de Química da Unicamp
- 11:00 Preparation and study of film properties of Fe₂TiO₅ for application in artificial photosynthesis** P3.J.164
Washington Santa Rosa^{1,2}, João Elias Figueiredo Soares Rodrigues¹, Renato Vitalino Gonçalves²; ¹Universidade Federal de São Carlos, ²IFSC, USP, SAO PAULO
- 11:00 Synthesis of Fe₂TiO₅/TiO₂ heterojunction nanotubes for artificial photossynthesis** P3.J.165
Thalles Thadeu Assunção Lucas¹, Maximiliano Jesús Moreno Zapata², João Elias Figueiredo Soares Rodrigues³, Renato Vitalino Gonçalves¹; ¹Universidade de São Paulo, ²Universidade Federal de Minas Gerais, ³Universidade Federal de São Carlos
- 11:00 Computational Screening of Bulk Materials with Intrinsic Intermediate Band for Solar Cells** P3.J.166
Douglas José Ribeiro Baquião¹, Gustavo Martini Dalpian¹; ¹Universidade Federal do ABC
- 11:00 Perovskite Solar Cells via blade-coating technique** P3.J.167
Adriano dos Santos Marques¹, Roberto Mendonça Faria², Ana Flávia Nogueira¹; ¹Instituto de Química da Unicamp, ²Instituto de Física de São Carlos
- 11:00 Number of grain in polycrystalline hematite modified with Sn: Its influence on electrical properties** P3.J.168
Fabício Benedito Destro¹, Cipriano Benedito Gozzo¹, Mario Rodrigo dos Santos Soares^{2,1}, Edson Roberto Leite^{2,1}; ¹Federal University of Sao Carlos, ²Brazilian Nanotechnology National Laboratory
- 11:00 Study of polycrystalline hematite modified with different cations** P3.J.169
Fabício Benedito Destro¹, Cipriano Benedito Gozzo¹, Mario Rodrigo dos Santos Soares^{2,1}, Edson Roberto Leite^{2,1}; ¹Federal University of Sao Carlos, ²Brazilian Nanotechnology National Laboratory
- 11:00 Obtaining of niobium oxide through pechini method for use in dye-sensitized solar cells** P3.J.170
Tatiana Lima Valerio¹, Guilherme Arielo Rodrigues Maia¹, Paulo Rogério Pinto Rodrigues¹, Everson do Prado Banczek¹, Aline Viomar¹; ¹Universidade Estadual do Centro Oeste

- 11:00 A photoelectrochemical study of CUBI₂O₄ modified with cobalt for hydrogen production from water splitting** P3.J.171
 Carlos Giovanni Bruziquesi¹, Tatiana Santos Andrade², Matheus Cata Preta Stolzemburg², José Gabriel Gabriel Balena Filho³, Adilson Cândido da Silva¹; ¹Universidade Federal de Ouro Preto, ²Universidade Federal dos Vales do Jequitinhonha e Mucuri, ³Universidade Federal de Minas Gerais
- 11:00 Synthesis of photovoltaic polymers to be used in organic solar cells (OPV) and organic light-emitting diode (OLED)** P3.J.172
 LAIS SCHMIDT ALBUQUERQUE^{1,2}, Jose Jonathan Rubio Arias¹, MARIA DE FÁTIMA VIEIRA MARQUES¹; ¹Universidade Federal do Rio de Janeiro, ²Instituto de Macromoléculas Professora Eloisa Mano
- 11:00 Improving IPCE in organic solar cells through incorporation of a TiO₂ aerogel interlayer** P3.J.173
 Natani Demarco Coutinho¹, Geneviève Kreibich Pinheiro¹, Rafael Bento Serpa¹, Daliana Muller¹, Carlos Renato Rambo¹; ¹Universidade Federal de Santa Catarina
- 11:00 Development of new hybrid solid electrolytes for dye sensitized solar cells** P3.J.174
 Yngrid Synara de Sena Silva¹, Karim Dahmouche¹, Marina Bernardes dos Santos¹, Getúlio Silva e Souza Júnior¹; ¹Universidade Federal do Rio de Janeiro
- 11:00 Evaluation of the performance of dye-sensitized solar cells based on the variation of the assembly parameters** P3.J.175
 Vitor Goetzke¹, Cátia Liane Ücker¹, Rubens Camaratta¹, Cristiane Raubach Ratmann¹; ¹Universidade Federal de Pelotas
- 11:00 NiO/Graphene oxide films as hole transport layers for planar perovskite solar cells** P3.J.176
 Paulo Ernesto Marchezi¹, Ana Flávia Nogueira¹; ¹Universidade Estadual de Campinas
- 11:00 Synthesis of CH₃NH₃PbI₃ microcubes via Solvothermal Method** P3.J.177
 Ariany Bonadio¹, Guilherme Sombrio¹, Midilane Sena Medina¹, Marcia Tsuyama Escote¹, José Antônio Souza¹; ¹Universidade Federal do ABC
- 11:00 Selective surface in aluminum by Plasma Electrolytic Oxidation: effect of time and duty cycle of 30%** P3.J.178
 Hugo Fernandes Medeiros Silva¹, Jairo Breno Francisco de Oliveira Barauna², Maurício dos Santos Lima³, Roberta Araujo Cavalcante de Menezes¹, Franciné Alves Costa¹, Clodomiro Alves Jr.³; ¹Universidade Federal do Rio Grande do Norte, ²Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais, Campinas, ³Universidade Federal Rural do Semi-Árido
- 11:00 Synthesis and characterization of calcium aluminate glasses doped with manganese** P3.J.179
 Perpétua Maria Rodolphi Fabre¹, Meríci de Fátima Machado¹, Camila Ferreira Pena¹, Juraci Aparecido Sampaio¹, Max Erik Soffner¹; ¹Universidade Estadual do Norte Fluminense Darcy Ribeiro
- 11:00 Synthesis and Characterization of Calcium Aluminate Glasses doped with Thulium** P3.J.180
 Meríci de Fátima Machado¹, Perpétua Maria Rodolphi Fabre¹, Camila Ferreira Pena¹, Juraci Aparecido Sampaio¹, Max Erik Soffner¹; ¹Universidade Estadual do Norte Fluminense Darcy Ribeiro
- 11:00 Ceria-based ceramic composites for high temperature thermochemical applications** P3.J.181
 Paulo Martins Silva¹, Vincenzo Esposito², Debora Marani², Daniel Zanetti de Florio³, Fabio Coral Fonseca¹; ¹Instituto de Pesquisas Energéticas e Nucleares, ²Technical University of Denmark / Danmarks Tekniske Universitet, ³Universidade Federal do ABC

- 11:00 Oxygen Evolution Reactions Studies of Ceramic Electrodes Sintered of LaNiO₃ with Insertion of Iron** P3.J.182
Cipriano Benedito Gozzo¹, Fabrcio Benedito Destro¹, Mario Rodrigo dos Santos Soares^{2,1}, Edson Roberto Leite^{2,1}; ¹Federal University of Sao Carlos, ²Brazilian Nanotechnology National Laboratory
- 11:00 Copper and Silver Tungstates as Photocathodes for Solar Fuels Production** P3.J.183
Miguel Tayar Galante¹, Claudia Longo¹, Krishnan Rajeshwar², Robin T Macaluso²; ¹Universidade Estadual de Campinas, ²University of Texas Arlington
- 11:00 Comparison of structural and optical properties of soluble conjugated copolymers with low band-gap for organic solar cells** P3.J.184
MAIARA DE JESUS BASSI¹, Luana Cristina Wouk de Menezes¹, Marlus Koehler², Maria Luiza Miranda Rocco³, Lucimara Stolz Roman¹; ¹Universidade Federal do Paran, ²Departamento de Ffsica, ³Universidade Federal do Rio de Janeiro

SESSION J. 03 (14:00 - 16:15) - Room Alamo 1

- 14:00 Simplified and Quick Electrical Modeling for Dye Sensitized Solar Cells: an experimental and theoretical investigation** J.O3.1
ROCELITO LOPES ANDRADE¹; ¹Universidade Federal do Rio Grande do Sul
- 14:15 Inhibited photoluminescence quenching in a silicon phthalocyanine derivative via reduced self-aggregation** J.O3.2
Igor Frota Vasconcelos^{1,2}, Cody W. Sharp², Alan Sellinger³, Sean E. Shaheen²; ¹Universidade Federal do Cear, ²University of Colorado Boulder, ³Colorado School of Mines
- 14:30 The Hunt for the “Perfect Beast” for Solar Fuels Generation or Carbon Dioxide Photoreduction: Prospects and Challenges** J.O3.3*
Krishnan Rajeshwar¹; ¹University of Texas Arlington
- 15:00 Influence of surface doping of WO₃ electrode and its photocatalytic performance** J.O3.4
Victoria Castagna Ferrari¹, Flavio Leandro Souza¹; ¹Universidade Federal do ABC
- 15:15 In situ time-resolved GIWAXS during spin coating preparation of perovskite through the solvent engineering method** J.O3.5
Rodrigo Szostak^{1,2}, Paulo Ernesto Marchezi¹, Adriano dos Santos Marques¹, Jeann Carlos da Silva¹, Matheus Serra de Holanda¹, Mrcio Medeiros Soares², Helio Tolentino², Ana Flvia Nogueira¹; ¹Universidade Estadual de Campinas, ²Brazilian Synchrotron Light Laboratory
- 15:30 Optical and bandgap characterization of formamidinium cesium lead mixed halide FA_{0.83}Cs_{0.17}Pb(I_{1-x}Br_x)₃ perovskite thin films** J.O3.6
Alvaro Tejada Esteves^{1,2}, Steffen Braunger², Lars Korte², Steve Albrecht², Bernd Rech², Jan Amaru Palomino Tfflinger¹, Rolf Grieseler¹, Jorge Andres Guerra Torres^{1,2}; ¹Pontificia Universidad Catlica del Per, ²Helmholtz-Zentrum Berlin
- 15:45 Sputtered AlN:H passivation layers on crystalline silicon: Interface investigation of charge stability and defect states** J.O3.7
Jorge Alejandro Dulanto Carbajal¹, Miguel Angel Sevillano Bendezu¹, Sandro Renato Espinoza Monsalve¹, Jorge Andres Guerra Torres¹, Rolf Grieseler¹, Jan Amaru Palomino Tfflinger¹; ¹Pontificia Universidad Catlica del Per
- 16:00 GaSe₉ based solar cells: internal dynamic processes influenced by the insertion of a cesium oxide thin layer** J.O3.8
Anderson Hoff¹, Isidro Cruz Cruz¹, mariana couto siqueira¹, Kleber Daum Machado¹, Ivo Alexandre Hmmlgen¹; ¹Universidade Federal do Paran

WEDNESDAY, SEPTEMBER 19

Oral presentations

* Invited Lecture

SESSION J. 03 (14:00 - 16:15) - Room Jatobá

- 14:00 Quantum dot-Sensitized Solar Cells** **J.O3.1***
Marco Antonio Schiavon¹; ¹Universidade Federal de São João Del Rei
- 14:30 Low bandgap D-A-D polymer and its application as electron donor in Organic Photovoltaic Devices** **J.O3.2**
Jose Jonathan Rubio Arias¹, LAIS SCHMIDT ALBUQUERQUE¹, BIANCA PEDROSO SILVA SANTOS¹, MARIA DE FÁTIMA VIEIRA MARQUES¹; ¹Universidade Federal do Rio de Janeiro
- 14:45 Charge Transfer Dynamics and Device Performance of Eco-Friendly Solvent-Processed Non-Fullerene Organic Solar Cells** **J.O3.3**
Luana Cristina Wouk de Menezes^{1,2}, Yingzhi Jin², Leandro Benatto¹, Chuanfei Wang², Marlus Koehler^{1,3}, Fengling Zhang², Lucimara Stolz Roman¹; ¹Universidade Federal do Paraná, ²Linköping University / Linköpings universitet, ³Departamento de Física
- 15:00 DYE-sensitized charge-separation and water oxidation** **J.O3.4***
gerald J. meyer¹; ¹Department of Chemistry, University of North Carolina at Chapel Hill, Chapel Hill NC
- 15:30 Role of graphene in enhancing hematite photoanodes activity for water oxidation** **J.O3.5**
Saulo do Amaral Carminati¹, André do Nascimento Barbosa², André Luiz Martins de Freitas³, Flavio Leandro Souza³, Fernando Lázaro Freire Jr.², Ana Flávia Nogueira¹; ¹Instituto de Química da Unicamp, ²Pontificia Universidade Católica do Rio de Janeiro, ³Fundação Universidade Federal do Abc
- 15:45 Gold Nanoparticle Decorated Fe₂O₃ Photoelectrodes: Understanding their Limitations and Challenges for an Improvement of Photoelectrochemical Efficiency** **J.O3.6**
Aryane Tofanello¹, Flavio Leandro Souza¹; ¹Universidade Federal do ABC

SYMPOSIUM K - Degradation of materials and solutions to increase its lifespan

Symposium organizers:

Polyana Alves Radi (ITA)

Lucia Vieira (UNIVAP)

Luis Augusto Rocha (UNESP)

TUESDAY, SEPTEMBER 18

Oral presentations

* Invited Lecture

SESSION K. 01 (09:30 - 10:30) - Room Flamboyant 1

- 09:30 Improved DLC films by using a modified pulsed-DC PECVD technique at very low pressure** K.O1.1*
Vladimir Jesus Trava-Airoldi¹; ¹Instituto Nacional de Pesquisas Espaciais
- 10:00 Effect of Babassu natural filler on PBAT/PHB biodegradable blends: an investigation of thermal, mechanical and morphological behaviour** K.O1.2
Vinicius Carrillo Beber¹, Silvio de Barros², Mariana Doina Banea², Laura Hecker de Carvalho³, Ron Hoffmann⁴, Anna Raffaella Costa³, Elieber Barros³, Ingridy Silva⁵, Katharina Haag⁴, Katharina Koschek⁴, Barbara Andreon⁴, Renate Maria Ramos Wellen⁵; ¹Unibremen, ²Centro Federal de Educação Tecnológica Celso Suckow da Fonseca, ³Universidade Federal de Campina Grande, ⁴Fraunhofer Institute for Manufacturing Technology and Advanced Materials, ⁵Universidade Federal da Paraíba
- 10:15 Improvement of photocurrent and progesterone degradation employing WO₃ thin films modified with platinum and silver nanoparticles** K.O1.3
MARIA JOSEITA DOS SANTOS COSTA¹, GILSON DOS SANTOS COSTA¹, REGINALDO DA SILVA SANTOS¹; ¹Universidade Estadual do Piauí

SESSION K. 02 (11:00 - 12:00) - Room Flamboyant 1

- 11:00 Corrosion barrier properties of high performance PMMA-silica coatings** K.O2.1
Andressa Trentin¹, Andressa de Lourdes Ferreira Gasparini¹, Flávio Andrade Faria¹, Samarah Vargas Harb¹, Fábio Cesar dos Santos¹, Sandra Helena Pulcinelli¹, Celso Valentim Santilli¹, Peter Hammer¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:15 Influence of bias voltage on adhesion of a-C:H films deposited on Ti6Al4V alloy** K.O2.2
Karina Carvalho de Farias Nass¹, Polyana Alves Radi Gonçalves², Vladimir Jesus Trava-Airoldi¹; ¹Instituto Nacional de Pesquisas Espaciais, ²Instituto Tecnológico de Aeronáutica
- 11:30 Characterization of accelerated degradation of low density polyethylene containing pro-degrading agents by X-ray photoelectron spectroscopy** K.O2.3
Rosane Sinato Roberto¹, Adonay Bruno Oliveira da Silva¹, Bianca Soares Serra¹, Fernanda Andrade Tigre da Costa¹, Marcelo Augusto Marcelo Augusto¹; ¹Universidade São Francisco
- 11:45 Electrochemical impedance spectroscopy as an anti-corrosion monitoring analysis of amorphous carbon layers** K.O2.4
Lázaro Aleixo dos Santos¹, Silvia Mesquita Tamborim¹; ¹Universidade Federal do Rio Grande do Sul

Poster presentations

SESSION P4 (18:00 - 19:30)

- 18:00 Thermal stability of PMMA-CLAYS nanocomposites** P4.K.46
Camila Raiane Ferreira¹, Celso Valentim Santilli¹, Pablo D. Borges², Sandra Helena Pulcinelli¹, Gustavo Palacio³; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade Federal de Viçosa, ³Instituto de Química de Araraquara
- 18:00 Magnetic Scanning Dynamic Technique to Characterize the Degree of Stress Corrosion Cracking** P4.K.47
David Domingos Soares Silva¹, Lipson Douglas de Oliveira Silva¹, Ewerton Freitas de Medeiros¹, Heber Sivini Ferreira¹; ¹Universidade Federal da Paraíba
- 18:00 Polyamide derived from babassu oil with potential application in the controlled release** P4.K.48
Fernando de Matos Borges¹, José Milton Elias de Matos¹; ¹Universidade Federal do Piauí
- 18:00 Study of the degradation of biopolymer obtained from pequi oil (Caryocar brasiliense Cambess)** P4.K.49
Rejane Teixeira do Nascimento¹, Fernando de Matos Borges¹, José Milton Elias de Matos¹, Maria Rita de Moraes Chaves Santos¹; ¹Universidade Federal do Piauí
- 18:00 Stearate addition effects on the mechanical properties of PBAT films** P4.K.50
Luanna Vilela Cesario¹, Laura Hecker de Carvalho¹, Marcelo Augusto Marcelo Augusto²; ¹Universidade Federal de Campina Grande, ²Universidade São Francisco
- 18:00 Use of peanut husks and tannin of Acacia negra (Acacia mearnsii) as natural preservative of wood** P4.K.51
Analine Crespo Ziglio^{1,2}, Débora Gonçalves¹, Francisco Antônio Rocco Lahr¹; ¹Universidade de São Paulo, ²Escola de Engenharia de São Carlos
- 18:00 Evaluation of the corrosion process under the action of chloride in steel AISI 1020** P4.K.52
Raimison Bezerra de Assis¹, Tércio Graciano Machado¹, Bianca Rios Figueredo Rodrigues¹, Igor Souza da Rocha Araujo¹, Larissa Wendy Santos¹, Beliato Santana Campos¹; ¹Instituto Federal de Educação, Ciência e Tecnologia da Bahia
- 18:00 Incorporation feasibility evaluation of cellulose manufacture residue grits into high calcium content frit formulation** P4.K.53
Verônica Ribeiro dos Santos¹, Marcelo Dezena Cabrelon¹, Eliandra de Sousa Trichês¹, Eduardo Quinteiro¹; ¹Universidade Federal de São Paulo
- 18:00 Synthesis of SnS and ZnS Hollow Microarchitectures Decorated with Nanostructures and Their Photocatalytic Behavior for Dye Degradation** P4.K.54
César Augusto Díaz Pomar¹, Aryane Tofanello¹, Guilherme Sombrio¹, Flavio Leandro Souza¹, Jean Jacques Bonvent¹, José Antônio Souza¹; ¹Universidade Federal do ABC
- 18:00 Tribocorrosion behavior of DLC films with interlayer and/or toplayer of Al₂O₃ films** P4.K.55
Polyana Alves Radi Gonçalves¹, Marco Antonio Ramirez², Luis Augusto Rocha³, Lucia Vieira²; ¹Instituto Tecnológico de Aeronáutica, ²Universidade do Vale do Paraíba, ³Universidade Estadual Paulista Júlio de Mesquita Filho
- 18:00 Analysis of the influence of carnauba wax and coconut fiber on moisture absorption in corn starch biocomposites** P4.K.56
Áleft Verlanger Rocha Gomes¹, Francielle Cristine Pereira Gonçalves¹, Ricardo Henrique de Lima Leite¹, Manoel Quirino Silva Júnior¹, Francisco Klebson Gomes dos Santos¹, Edna Maria Mendes Aroucha¹; ¹Universidade Federal Rural do Semi-Árido

- 18:00 Influence of composition on the thickness and density of biocomposites of corn starch, coir fiber and carnauba wax** **P4.K.57**
Áleft Verlanger Rocha Gomes¹, Francielle Cristine Pereira Gonçalves¹, Manoel Quirino Silva Júnior¹, Ricardo Henrique de Lima Leite¹, Francisco Klebson Gomes dos Santos¹, Edna Maria Mendes Aroucha¹; ¹Universidade Federal Rural do Semi-Árido
- 18:00 Electrochemical performance of NbMo coatings for oil and gas industry** **P4.K.58**
Thiago Araujo Simoes¹, Rodinei Medeiros Gomes¹; ¹Universidade Federal da Paraíba
- 18:00 Degradation of amoxicillin using magnetic induction heating** **P4.K.59**
PATRICIA MARIANA ALVES CAETANO^{1,2}, Adriana Silva de Albuquerque², Luis Eugenio Fernandez-Outon^{3,2}, Waldemar Augusto de Almeida Macedo², José Domingos Ardisson²; ¹Centro Universitário Una, ²Centro de Desenvolvimento da Tecnologia Nuclear, ³Universidade Federal de Minas Gerais
- 18:00 Nanocomposites based on Thermoplastic starch-modified as a matrix for nitrogen fertilizers** **P4.K.60**
Amanda S Giroto¹, Gelton G F Guimarães¹, Artur Klamczynski², Gregory M Glenn², Cauê Ribeiro Oliveira¹; ¹Empresa Brasileira de Pesquisa Agropecuária - Embrapa Instrumentação - CNPdia, ²U. S. Department of Agriculture
- 18:00 Study of carbonating on metakaolinite-based alkaline activated material** **P4.K.61**
Gabriel Sa Teles Lima¹, Kelly Cristiane Gomes¹, Marçal Rosas Florentino Lima Filho¹, Alexandro José Virgínio Dos Santos¹, Sandro Marden Torres¹; ¹Universidade Federal da Paraíba
- 18:00 Obtention and characterization of composites based on epoxy resin filled with tailings of scheelite** **P4.K.62**
clarissa danielle mendonça de oliveira guimarães¹, Mariza de Carvalho Montenegro Fernandes², Francisco Rolando Valenzuela Diaz¹, Juliana Ricardo de Souza²; ¹Escola Politécnica de Universidade de São Paulo, ²Universidade Federal do Rio Grande do Norte
- 18:00 Degradation of dye textile by heterogeneous photocatalysis in absence of oxygen peroxide using Niobium pentoxide supported on bentonite clay** **P4.K.63**
Elenice Hass Caetano¹, Juliana Regina Kloss², Sérgio Toshio Fujiwara¹; ¹Universidade Estadual de Ponta Grossa, ²Universidade Tecnológica Federal do Paraná
- 18:00 Polyaniline/Carbon Black /Styrene-ethylene-butylene-styrene sulfonated nanocomposite for enhanced corrosion protective performance** **P4.K.64**
Luis Marcelo G da Silva¹, Hugo Gajardoni de Lemos¹, Sydney Ferreira Santos¹, R. A. Antunes¹, Everaldo Carlos Venancio²; ¹Fundação Universidade Federal do Abc, ²Universidade Federal do ABC
- 18:00 Synthesis of TiO₂ supported on clay for degradation of dye yellow eosin** **P4.K.65**
Alan Ícaro Sousa Morais¹, Wemerson Vieira Oliveira¹, Edson Cavalcanti da Silva Filho¹, Josy Antevéli Osajima¹; ¹Universidade Federal do Piauí
- 18:00 Photodegradation of herbicide using materials based on clay, metal and oxide** **P4.K.66**
Alexandro de Sousa Sá¹, Marcelo Barbosa Furtini¹, Lucas Italo Freitas Pinto¹, Alan Ícaro Sousa Morais¹, Carla Eiras¹, Josy Antevéli Osajima¹; ¹Universidade Federal do Piauí
- 18:00 A study of usage of fine recycled aggregate from Natal/RN in the production of type AC-I adhesive mortar** **P4.K.67**
Gabriela Barbosa Bruno¹, Higor Gabriel Andrade Sarmiento¹, Roberth Gabriel Mariano dos Santos¹, Wesley Feu dos Santos¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Norte

- 18:00 Study of the feasibility of reusing mineral and soluble cutting fluids, applied in SAE 1020 steel turning process** P4.K.68
Ramsés Otto Cunha Lima¹, Samuel de Lima Menezes¹; ¹Universidade Federal Rural do Semi-Árido
- 18:00 On the use of the scanning Kelvin probe for assessing in situ the delamination of adhesively bonded joints** P4.K.69
Barbara Andreon¹, Barbara Luiza Guenther¹, Welch Leite Cavalcanti¹, Peter Plagemann¹, Lucio Colombi Ciacchi²; ¹Fraunhofer Institute for Manufacturing Technology and Advanced Materials, ²Universität Bremen
- 18:00 Mortars with replacement of the small aggregate by glass: an eco-constructive solution.** P4.K.70
Kátia Bittencourt Botelho¹, Erika Peterson Gonçalves¹, Ivone Regina de Oliveira¹; ¹Universidade do Vale do Paraíba
- 18:00 Comparative study of the effect of the addition of citric acid and polyvinyl alcohol in the recycled gypsum plaster** P4.K.71
 João Victor Toledo de Almeida de Souza¹, Maria Clara Rozo Terreiro Seffrin¹, Erika Peterson Gonçalves¹; ¹Universidade do Vale do Paraíba
- 18:00 Development of mortar with addition filler from bottle glass** P4.K.72
 Pamela Leonello de Carvalho Alonso¹, Walter Enge Gardini¹, Erika Peterson Gonçalves¹; ¹Universidade do Vale do Paraíba
- 18:00 Chemical and mineralogical characterization for the analysis of requirements of pozzolanic materials** P4.K.73
Lucas Henrique P Silva^{1,2}, Danillo Roberto Pereira², Patricia Alexandra Antunes², Jacqueline Roberta Tamashiro², Jorge Luís Akasaki³; ¹Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, ²Universidade do Oeste Paulista, ³Universidade Estadual Paulista Júlio de Mesquita Filho
- 18:00 Inhibition of Corrosion with LDH-NO₂ Barrier Coating** P4.K.74
Anelize Seniski Silva¹, Tassiane Apolinario de Oliveira¹, Kleber Franke Portella², Gilberto Teixeira Carrera³, Mariana d'Orey Gaivão Portella Bragança²; ¹Universidade Federal do Paraná, ²Instituto de Tecnologia para o Desenvolvimento, ³Centrais Elétricas do Pará S/A
- 18:00 Analysis of fry waste soy oil application as water repellent addition in mortars.** P4.K.75
Carlos Andrei Cunha¹, Wesley Feu dos Santos², Jozilene Souza²; ¹Universidade Federal do Rio Grande do Norte, ²Instituto Federal do Rio Grande do Norte
- 18:00 The effects of microstructure parameters on corrosion behavior of an Al-Si-Mg ternary alloy** P4.K.76
 Letícia H. Nakajima¹, Talita Almeida Vida², Thiago Soares Lima², Noé Cheung², Amauri Garcia², Crystopher Brito¹; ¹Universidade Federal de São Paulo, ²Universidade Estadual de Campinas
- 18:00 Surface characterization of nitrided aluminum alloyed hot work tool steel** P4.K.77
Vinicius Cardoso Ottani¹, Alberto Moreira Jorge Junior¹; ¹Universidade Federal de São Carlos
- 18:00 Epoxy-silica hybrid coatings for corrosion protection of metals** P4.K.78
Mayara Carla Uvida¹, Samarah Vargas Harb¹, Andressa Trentin¹, Vitor Malaman Benaglia¹, Celso Valentim Santilli¹, Peter Hammer¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 18:00 Investigation of the use of papaya seeds as potential agents in the reduction of dyes in wastewater** P4.K.79
Soraia Cristina Gonzaga Neves Braga¹, Filipe Leôncio Braga¹, Emmanuela M.A Sternberg¹, Geovana Neves Chaves¹, Guilherme Escarpini Helmer¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo

- 18:00 Thermal stability and chemical properties study of natural and cross-linked guar gum / carboximetilcelulose films** P4.K.80
Marcos Antonio Antonio Pereira Morais¹, Thyago Marques Monteiro¹, Germano de Albuquerque Andrade Neto¹, Josilene Cavalcante¹, Cláudia Menegaz Zaccaron Cristiano¹; ¹Universidade Federal da Paraíba
- 18:00 Chloride induced corrosion of carbon steel anchor rods in soil** P4.K.81
Tiago Scheffer de Matos^{1,2}, Kleber Franke Portella^{1,2}, Sérgio Luiz Henke¹, Mariana d'Orey Gaivão Portella Bragança², Alessandro Cesar de Sousa Berrêdo³; ¹Universidade Federal do Paraná, ²Institutos Lactec, ³TAESA
- 18:00 Ni-based Hastelloy C276 coatings by Laser cladding: Microstructure evaluation and mechanical properties** P4.K.82
Lubar Eduardo Hortmann Santos Rivero¹, Alex Pizzatto¹, Moises Felipe Teixeira², Natalia Wendt Dreveck², Gustavo Reis de Ascensão², Adriano Scheid¹; ¹Universidade Federal do Paraná, ²Instituto SENAI de Inovação
- 18:00 Effect of the solvent on the morphology of Ethylene Vinyl Acetate films** P4.K.83
Adeilson de Oliveira Souza¹, Amanda Melissa Damião Leite¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Influence of sulfate ions in corrosion process on carbon steel plates, galvanized steel and copper** P4.K.84
Rafael Frasson Monteiro¹, Anelize Seniski Silva¹, Kleber Franke Portella², Gilberto Teixeira Carrera³, Mariana d'Orey Gaivão Portella Bragança²; ¹Universidade Federal do Paraná, ²Instituto de Tecnologia para o Desenvolvimento, ³Centrais Elétricas do Pará S/A
- 18:00 Production and analysis of paving and masonry blocks produced with rcd recycled aggregate** P4.K.85
Larissa Lino dos Santos¹; ¹Centro Universitário Facex
- 18:00 Synthesis of Zn:x Mn by hydrothermal Method with photocatalytic property** P4.K.86
Joyce Silva¹, Yara Feliciano Gomes¹, Débora Ferreira dos Santos¹, Mauricio Roberto Bomio Delmonte¹, Carlos Alberto Paskocimas¹, Fabiana Villela da Motta¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Synthesis of Zn:X Ni by CPM with photocatalytic propert** P4.K.87
Débora Ferreira dos Santos¹, Yara Feliciano Gomes¹, Joyce Silva¹, Mauricio Roberto Bomio Delmonte¹, Carlos Alberto Paskocimas¹, Fabiana Villela da Motta¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Biodegradation of poly(butylene adipate co-terephthalate)/ thermoplastic starch blend evaluated by differential scanning calorimetry** P4.K.88
Fernanda Andrade Tigre da Costa¹, Marcelo Augusto Marcelo Augusto¹; ¹Universidade São Francisco
- 18:00 Characterization of the gypsum of the region of Araripe Pernambucano** P4.K.89
EDJAN DE CASTRO SOUZA¹, Andrea Vasconcelos Ferraz¹, Raquel A. P. Oliveira¹; ¹Fundação Universidade Federal do Vale do São Francisco
- 18:00 Influence of the Cathodic Potential on the Mechanical Properties of Steel ASTM A131 Grade AH32** P4.K.90
Diniz Ramos Lima Júnior¹, Ivanilda Ramos Melo², Rubens Andrade Santos², Severino L. Urtiga Filho²; ¹Instituto Federal de Pernambuco, ²Universidade Federal de Pernambuco
- 18:00 Effect of NaCl and KCl on mechanical resistance of cement slurries containing silica for oil wells in Evaporite-rich areas** P4.K.91
Angel Sousa¹, Carina Gabriela de Melo e Melo¹, Antonio Eduardo Martinelli², Dulce Maria de Araújo Melo², Vítor Rodrigo de Melo e Melo²; ¹Universidade Federal da Paraíba, ²Universidade Federal do Rio Grande do Norte

- 18:00 Influence of Chloride-Ion in the Compressive Resistance of Concrete** **P4.K.92**
João Batista de Oliveira Libório Dourado¹, Germano César Deolindo Souza¹, Bruna Leal Melo Oliveira², Valdivânia Albuquerque do Nascimento¹, Hitalo de Jesus Bezerra da Silva¹, Moisés das Virgens Santana¹, Millena de Cassia Sousa e Silva¹, Walber Alves Freitas¹; ¹Universidade Federal do Piauí, ²Universidade de Brasília
- 18:00 Obtaining bioadsorbents by means of the impregnation of metal nanoparticles** **P4.K.93**
 Daniel Mantovani¹, Andreia Fatima Zanette², Rosangela Bergamasco¹, Marcelo Fernandes Vieira¹; ¹Universidade Estadual de Maringá, ²Universidade Estadual Paulista Júlio de Mesquita Filho
- 18:00 PHB/PCL Blends: morphology and biodegradation study** **P4.K.94**
 Itamara Farias Leite¹, Renata Karoline F. Ataíde¹, Pedro Henrique Medeiros Nicácio¹; ¹Universidade Federal da Paraíba
- 18:00 PHB/LDPE blends thermal aging: thermal and morphology properties** **P4.K.95**
Pedro Henrique Medeiros Nicácio¹, Renata Karoline F. Ataíde¹, Itamara Farias Leite¹; ¹Universidade Federal da Paraíba
- 18:00 New additives for mortar with photocatalitcal and bactericide properties** **P4.K.96**
Maxwell Sousa Rodrigues¹, ANTONIO ONIAS MESQUITA VÉRAS¹, Josy Antevéli Osajima¹, Marcelo Barbosa Furtini¹, Edson Cavalcanti da Silva Filho¹; ¹Universidade Federal do Piauí
- 18:00 New materials for modified clay based construction** **P4.K.97**
Maxwell Sousa Rodrigues¹, ANTONIO ONIAS MESQUITA VÉRAS¹, Josy Antevéli Osajima¹, Marcelo Barbosa Furtini¹, Lucas Italo Freitas Pinto¹; ¹Universidade Federal do Piauí
- 18:00 Microwave-assisted Hydrothermal Synthesis of Titanate Nanotubes and its Application in the Photodegradation of Remazol Blue Dye** **P4.K.98**
Suziete Batista Soares Gusmão¹, Anupama Ghosh¹, Thalles Moura Fe Marques², Renato Francisco Sousa Veloso¹, Josy Antevéli Osajima¹, Bartolomeu Cruz Viana¹; ¹Universidade Federal do Piauí, ²Instituto Federal de Educação, Ciência e Tecnologia do Piauí
- 18:00 Influence of Magnesium Oxide (MgO) in the expansive and mechanical properties of oil well cement slurries** **P4.K.99**
Ramón Victor Alves Ramalho¹, Daniela Maria Monteiro Lima², Larissa Barreira de Queiroz², Júlio Cezar de Oliveira Freitas¹, Willame Gomes da Silva Batista¹; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Potiguar
- 18:00 Inclusion of adsorbent graphite oxide in sand used in the removal of blue effluent of methylene** **P4.K.100**
 Daniel Mantovani¹, Leandro Ferreira Pinto², Rosangela Bergamasco¹, Marcelo Fernandes Vieira¹; ¹Universidade Estadual de Maringá, ²Universidade Estadual Paulista Júlio de Mesquita Filho
- 18:00 Use of the kaolin residue to replace the aggregate in alternative concrete** **P4.K.101**
Raquel Ferreira Nascimento¹, Dandara Pereira Moura de Assis¹, Lorena Dantas Pinto¹, Nathaly Bernardo Sousa¹, André Luiz Alves da Silva¹, Bruno Souza dos Santos¹, Nayla Kelly Antunes de Oliveira¹, Larissa Santana Batista¹, Suelen Silva Figueiredo¹, Damares de Sá Ramalho Neta¹, Danylo de Andrade Lima¹, Denn's Santana Perônica¹; ¹Universidade Federal de Campina Grande
- 18:00 Study of the mechanical properties of mortar incorporated with kaolin** **P4.K.102**
Raquel Ferreira Nascimento¹, Dandara Pereira Moura de Assis¹, Igor Guilherme Rodrigues¹, Nathaly Bernardo Sousa¹, André Luiz Alves da Silva¹, Bruno Souza dos Santos¹, Nayla Kelly Antunes de Oliveira¹, Gilanildo Freires de Almeida¹, Maelle Guedes Passos¹, Larissa Santana Batista¹, Suelen Silva Figueiredo¹, Adriano Lopes Gualberto Filho¹; ¹Universidade Federal de Campina Grande

- 18:00 Study of the mechanical behavior of paving from the use of RCD as a large aggregate.** **P4.K.103**
Nathaly Bernardo Sousa¹, Danylo de Andrade Lima¹, Lorena Dantas Pinto¹, Raquel Ferreira Nascimento¹, Cícero Jefferson Rodrigues dos Santos¹, Dandara Pereira Moura de Assis¹, Bruno Souza dos Santos¹, Igor Guilherme Rodrigues¹, Denn's Santana Perônica¹, André Luiz Alves da Silva¹, Larissa Santana Batista¹, Suelen Silva Figueiredo¹; ¹Universidade Federal de Campina Grande
- 18:00 Application of sheelite mining residue on rigid pavement** **P4.K.104**
Nathaly Bernardo Sousa¹, Nayla Kelly Antunes de Oliveira¹, Damares de Sá Ramalho Neta¹, Lorena Dantas Pinto¹, Raquel Ferreira Nascimento¹, André Luiz Alves da Silva¹, Dandara Pereira Moura de Assis¹, Bruno Souza dos Santos¹, Danylo de Andrade Lima¹, Denn's Santana Perônica¹, Larissa Santana Batista¹, Suelen Silva Figueiredo¹; ¹Universidade Federal de Campina Grande
- 18:00 Application of scheelite mining residue on concrete** **P4.K.105**
Palloma Karolayne Santos Oliveira¹, Cícero Jefferson Rodrigues dos Santos¹, Edmilson Roque da Silva Júnior¹, Gilanildo Freires de Almeida¹, Damares de Sá Ramalho Neta¹, Jonatas Kennedy Silva de Medeiros¹, Wily Santos Machado¹, Maelle Guedes Passos¹, Brenno Tércio da Silva Miranda¹, Marcelo Laédson Morato Ferreira¹, Larissa Santana Batista¹, Suelen Silva Figueiredo¹; ¹Universidade Federal de Campina Grande
- 18:00 Study of the use of stone powder as a small aggregate on rigid pavement** **P4.K.106**
Palloma Karolayne Santos Oliveira¹, Maelle Guedes Passos¹, Cícero Jefferson Rodrigues dos Santos¹, André Luiz Alves da Silva¹, Edmilson Roque da Silva Júnior¹, Jonatas Kennedy Silva de Medeiros¹, Wily Santos Machado¹, Marcelo Laédson Morato Ferreira¹, Brenno Tércio da Silva Miranda¹, Igor Guilherme Rodrigues¹, Larissa Santana Batista¹, Suelen Silva Figueiredo¹; ¹Universidade Federal de Campina Grande
- 18:00 Study of the technical and economic viability of concretes incorporated with mining residues applied in paving works** **P4.K.107**
Lorena Dantas Pinto¹, Damares de Sá Ramalho Neta¹, Nayla Kelly Antunes de Oliveira¹, Raquel Ferreira Nascimento¹, Dandara Pereira Moura de Assis¹, Nathaly Bernardo Sousa¹, Maelle Guedes Passos¹, Bruno Souza dos Santos¹, Palloma Karolayne Santos Oliveira¹, Larissa Santana Batista¹, Suelen Silva Figueiredo¹, Denn's Santana Perônica¹; ¹Universidade Federal de Campina Grande
- 18:00 Residue of mining replacing the aggregate in the alternative concrete world** **P4.K.108**
Lorena Dantas Pinto¹, Nayla Kelly Antunes de Oliveira¹, Larissa Santana Batista¹, Suelen Silva Figueiredo¹, Raquel Ferreira Nascimento¹, Dandara Pereira Moura de Assis¹, Nathaly Bernardo Sousa¹, André Luiz Alves da Silva¹, Bruno Souza dos Santos¹, Danylo de Andrade Lima¹, Denn's Santana Perônica¹, Damares de Sá Ramalho Neta¹; ¹Universidade Federal de Campina Grande
- 18:00 Study of the mechanical behavior of concrete from the use of construction and demolition waste (CDW) as a large aggregate** **P4.K.109**
Wily Santos Machado¹, Larissa Santana Batista¹, Suelen Silva Figueiredo¹, André Luiz Alves da Silva¹, Brenno Tércio da Silva Miranda¹, Cícero Jefferson Rodrigues dos Santos¹, Danylo de Andrade Lima¹, Edmilson Roque da Silva Júnior¹, Gilanildo Freires de Almeida¹, Lorena Dantas Pinto¹, Jonatas Kennedy Silva de Medeiros¹, Marcelo Laédson Morato Ferreira¹; ¹Universidade Federal de Campina Grande
- 18:00 Study of the use of stone powder in partial replacement sand as a small aggregate** **P4.K.110**
Wily Santos Machado¹, Brenno Tércio da Silva Miranda¹, Cícero Jefferson Rodrigues dos Santos¹, Edmilson Roque da Silva Júnior¹, Gilanildo Freires de Almeida¹, Igor Guilherme Rodrigues¹, Jonatas Kennedy Silva de Medeiros¹, Larissa Santana Batista¹, Maelle Guedes Passos¹, Marcelo Laédson Morato Ferreira¹, Palloma Karolayne Santos Oliveira¹, Suelen Silva Figueiredo¹; ¹Universidade Federal de Campina Grande

- 18:00 Analysis of the residue using kaolin instead of coarse aggregate in concrete for rigid pavements purposes** **P4.K.111**
Jonatas Kennedy Silva de Medeiros¹, Palloma Karolayne Santos Oliveira¹, Wily Santos Machado¹, Cícero Jefferson Rodrigues dos Santos¹, Edmilson Roque da Silva Júnior¹, Gilanildo Freires de Almeida¹, Igor Guilherme Rodrigues¹, Maelle Guedes Passos¹, Brenno Tércio da Silva Miranda¹, Marcelo Laédson Morato Ferreira¹, Larissa Santana Batista¹, Suelen Silva Figueiredo¹; ¹Universidade Federal de Campina Grande
- 18:00 Mechanical evaluation of mining waste for use in geotechnical activity** **P4.K.112**
Jonatas Kennedy Silva de Medeiros¹, Nayla Kelly Antunes de Oliveira¹, Damares de Sá Ramalho Neta¹, Wily Santos Machado¹, Palloma Karolayne Santos Oliveira¹, Edmilson Roque da Silva Júnior¹, Gilanildo Freires de Almeida¹, Igor Guilherme Rodrigues¹, Brenno Tércio da Silva Miranda¹, Marcelo Laédson Morato Ferreira¹, Danylo de Andrade Lima¹, Denn's Santana Perônica¹, Larissa Santana Batista¹, Suelen Silva Figueiredo¹; ¹Universidade Federal de Campina Grande
- 18:00 Thermoanalytical study combined with FT-IR analyzes of samples of in nature and processed coffees** **P4.K.113**
Celio Lucas Valente Rodrigues¹, Camila Nunes Pinotti¹, Victor Hugo de Oliveira¹, Zélia Maria Da Costa Ludwig¹; ¹Universidade Federal de Juiz de Fora
- 18:00 Thermal analysis combined with FT-IR of commercial samples of guarana powder** **P4.K.114**
Camila Nunes Pinotti¹, Celio Lucas Valente Rodrigues¹, Victor Hugo de Oliveira¹, Zélia Maria Da Costa Ludwig¹; ¹Universidade Federal de Juiz de Fora
- 18:00 Synthesis of metal oxide heterogeneous catalysts for biodiesel production** **P4.K.115**
Lívia Ramazzoti Chanan Silva¹, Karina Gomes Angilelli¹, Érica Signori Romagnoli¹, Dionisio Borsato¹; ¹Universidade Estadual de Londrina
- 18:00 Analysis and characterization of a failed wind steel screw** **P4.K.116**
Anderson Wagner Menezes¹, Manoel Quirino Silva Júnior²; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Federal Rural do Semi-Árido

WEDNESDAY, SEPTEMBER 19

Oral presentations

* Invited Lecture

SESSION K. 01 (09:30 - 10:30) - Room Flamboyant 1

- 09:30 Atomic layer deposition of titanium dioxide and aluminum oxide thin films for corrosion protection** **K.O1.1***
Rodrigo Savio Pessoa¹; ¹Instituto Tecnológico de Aeronáutica
- 10:00 Corrosion resistance of TiO₂ and Al₂O₃ films grown on aluminum by atomic layer deposition (ALD)** **K.O1.2**
Vanessa Messias Dias¹, Anderson Oliveira Lobo², Rodrigo Sávio Pessoa¹, Fernanda Roberta Marciano³; ¹Instituto Tecnológico de Aeronáutica, ²Instituto de Ciência e Tecnologia, Universidade Brasil, ³Universidade do Vale do Paraíba

- 10:15 Tribocorrosion of sputtered titanium dioxide/zinc oxide thin films for biomedical applications** K.O1.3
Patrícia Corrêa¹, Polyana Alves Radi Gonçalves², José Humberto Dias da Silva¹, Lucia Vieira Santos², Luís Augusto Rocha¹; ¹Faculdade de Ciências - UNESP - Campus de Bauru, ²Universidade do Vale do Paraíba

SESSION K. 02 (11:00 - 12:00) - Room Flamboyant 1

- 11:00 Tribocorrosion studies on DLC covered stainless steel substrate in ethanol fuel** K.O2.1
Polyana Alves Radi Gonçalves¹, Angela A. Vieira², Lucas Augusto Manfro², Marco Antonio Ramirez², Priscila Leite², Lucia Vieira²; ¹Instituto Tecnológico de Aeronáutica, ²Universidade do Vale do Paraíba
- 11:15 Cyclic tribocorrosion evaluation of new alloys ti for dental application** K.O2.2
Erick Tadashi Manjone Vendramini¹, Tiago dos Santos Pereira De Sousa¹, Lígia Saraiva Bueno², Diego Rafael Nespeque Correa³, Ana Flávia Sanches Borges², Luís Augusto Rocha^{4,5}; ¹Faculdade de Ciências - UNESP - Campus de Bauru, ²Universidade de São Paulo, ³Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, ⁴Universidade Estadual Paulista Júlio de Mesquita Filho, ⁵Brazilian Branch Institute of Biomaterials, Tribocorrosion and Nanomedicine
- 11:30 Synergistic effect of antioxidants from two natural sources in order to improve corrosion inhibition** K.O2.3
Hugo Perez Neto¹, Silvia Rosane Rodrigues¹, Viviane - Dalmoro², Silvia Mesquita Tamborim¹, Amanda Petersen¹, João Henrique Zimnoch Dos Santos¹; ¹Universidade Federal do Rio Grande do Sul, ²Instituto Federal de Educação, Ciência e Tecnologia Sul
- 11:45 3,5 -Diphenyl isoxazoline as a non-toxic anticorrosive treatment for microcracks on amorphous carbon layer of AA2024-T3 aluminum alloy** K.O2.4
Amanda de Petersen Petersen¹, Augusto Versteeg¹, Luana Dezingrini Lopes¹, Aloir Antônio Merlo¹, Silvia Mesquita Tamborim¹; ¹Universidade Federal do Rio Grande do Sul

SESSION K. 03 (14:00 - 16:15) - Room Flamboyant 1

- 14:00 Influence of porosity parameters on the release of solid lubricant in sintered steel vacuum impregnated with graphite** K.O3.1
Nicolás Araya Rivera¹, Guilherme Oliveira Neves¹, José Biasoli de Mello¹, Aloisio Nelmo Klein¹, Cristiano Binder¹; ¹Universidade Federal de Santa Catarina
- 14:15 High-temperature Raman study of L-alanine, L-threonine and taurine crystals related to thermal decomposition** K.O3.2
andré luís de oliveira cavaignac¹, Ricardo Jorge Cruz Lima²; ¹Universidade CEUMA, ²Universidade Federal do Maranhão
- 14:30 Physical aging and temperature influence on mechanical properties of short glass fibers reinforced polybutylene terephthalate** K.O3.3
Joao Marcos Warmling Dudy¹, Felipe Darabas Rzatki¹, Pedro Henrique da Rosa Braun¹, Lucas Naime Ferrari¹, Aloisio Nelmo Klein¹, Guilherme Mariz de Oliveira Barra¹; ¹Federal University of Santa Catarina
- 14:45 Influence of natural antioxidants in mixture with biodiesel in possible deviations of arrhenius equation** K.O3.4
Érica Signori Romagnoli¹, Letícia Thais Chendynski¹, Lívia Ramazzoti Chanan Silva¹, Karina Gomes Angilelli¹, Bruna Aparecida Denobi Ferreira¹, Dionisio Borsato¹; ¹Universidade Estadual de Londrina

- 15:00 Aging of Composite repair materials for oil pipelines and effects in permeability. K.O3.5**
Mirella Lopes Rocha^{1,2}, Ana Paula Cysne Barbosa¹, José Daniel Diniz Melo¹, Evans Paiva da Costa Ferreira¹; ¹Universidade Federal do Rio Grande do Norte, ²Programa de pós graduação em Ciência e Engenharia de Materiais
- 15:15 Study of the oxide layers formed on nickel weld alloys in water solution at high K.O3.6**
temperatures
Renato Mendonça¹, Wagner Reis da Costa Campos¹, Waldemar Augusto de Almeida Macedo¹; ¹Centro de Desenvolvimento da Tecnologia Nuclear
- 15:30 Linking the Wenzel Roughness Parameter with the Power Spectral Density K.O3.7**
Function
Pedro Lovato Gomes Jardim¹, Mário Lúcio Moreira¹, Caroline Schmechel Schiavon¹; ¹Universidade Federal de Pelotas
- 15:45 Study of the reactive potential and characterization of coarse aggregates in the K.O3.8**
northeast region of Brazil via accelerated method of bars
Ricardo Vasconcelos Gomes da Costa¹, Marcos Antonio Padilha Júnior¹, Marçal Rosas Florentino Lima Filho¹, Sandro Marden Torres¹, Tibério W.C.O. Andrade², Antonio Farias Leal¹; ¹Universidade Federal da Paraíba, ²Instituto Federal de Pernambuco

THURSDAY, SEPTEMBER 20

Oral presentations

* Invited Lecture

SESSION K. 01 (09:30 - 11:00) - Room Flamboyant 1

- 09:30 Macro and micro-structural analysis of coarse aggregates of the northeast region K.O1.1**
of Brazil for the production of structural concretes
 Marcos Antonio Padilha Júnior¹, Marçal Rosas Florentino Lima Filho¹, Sandro Marden Torres¹, Ariane Marina de Albuquerque Teixeira¹, Camila Patrícia Jeronymo Pinto¹, João Victor Bezerra de Araújo Primo¹; ¹Universidade Federal da Paraíba
- 09:45 Elastomer seal with flexible solid lubricant K.O1.2**
Lucia Vieira¹, Thaisa B. Santos¹, Ana Claudia Sene¹, Lucas A. Manfroi¹, Angela A. Vieira¹, Polyana Alves Radi Gonçalves², Marco Antonio Ramirez¹; ¹Universidade do Vale do Paraíba, ²Instituto Tecnológico de Aeronáutica
- 10:00 Roundtable: Key concepts and challenges on the degradation of materials studies K.O1.3**
and solutions search to increase its lifespan
Polyana Alves Radi Gonçalves¹, Lucia Vieira², Luís Augusto Rocha³; ¹Instituto Tecnológico de Aeronáutica, ²Universidade do Vale do Paraíba, ³Faculdade de Ciências - UNESP - Campus de Bauru

SYMPOSIUM L - Tomography and X-ray microtomography applied to materials and biomaterials

Symposium organizers:

Marcelo Honnicke (UNILA)

Walmor Cardoso Godoi (UTFPR)

Klaus de Geus (UFPR and Companhia Paranaense de Energia)

TUESDAY, SEPTEMBER 18

Poster presentations

SESSION P4 (18:00 - 19:30)

- 18:00 Morphological Characterization of Green Composites Using Radiography and Industrial Computed Tomography** P4.L.117
Caroline Rodrigues Pereira de Paula¹, Elaine Cristina Azevedo¹, Daniel Banza de Arruda¹, Walmor Cardoso Godoi¹, Vitoldo Swinka Swinka-Filho², Sebastião Ribeiro Junior², Marcelo Gonçalves Honnicke³; ¹Universidade Tecnológica Federal do Paraná, ²Institutos Lactec, ³Universidade Federal da Integração Latino
- 18:00 Reconstruction algorithm for Compton scattering tomography with application to biological tissues and low density materials characterization** P4.L.118
Thiago Oliveira Bispo de Jesus¹, Giuliana Martins Silva¹, André Luiz Coelho Conceição², Marcelo Antoniassi¹; ¹Universidade Tecnológica Federal do Paraná, ²Deutsches Elektronen-Synchrotron
- 18:00 Analysis of Cement Paste Samples Using 3D Computed Tomography** P4.L.119
Fabricio Cunha Andrade¹, Klaus de Geus¹, Walmor Cardoso Godoi², Charlie Antoni Miquelin², Sebastião Ribeiro Junior³, Vitoldo Swinka Swinka-Filho³, Betina L Medeiros³, Jeferson Luiz Bronholo³; ¹Companhia Paranaense de Energia, ²Universidade Tecnológica Federal do Paraná, ³Institutos Lactec
- 18:00 Microstructural Characterization of carbonated apatite and Zn/Sr-substituted carbonated apatite implanted in rat tibia defect by Synchrotron Radiation X-Ray Microtomography and FIB tomography** P4.L.120
Victor Ramón Martínez Zelaya¹, Nathaly Lopes Archilha², Marcos Farina³, Mariana Moreira Longuinho³, Monica Calasans-Maia⁴, Alexandre Malta Rossi¹; ¹Centro Brasileiro de Pesquisas Físicas, ²Brazilian Synchrotron Light Laboratory, ³Universidade Federal do Rio de Janeiro, ⁴Universidade Federal Fluminense

WEDNESDAY, SEPTEMBER 19

Oral presentations

* Invited Lecture

SESSION L. 03 (14:00 - 16:15) - Room Araucária

- 14:00 Hyperspectral and Multidimensional Synchrotron Chemical Imaging** L.O3.1
Dario FERREIRA SANCHEZ¹, Daniel Grolimund¹, Peter Warnicke¹, Francesco Marafatto¹; ¹Paul Scherrer Institut

- 14:15 New protocols for X-ray microtomography of mouse brain** **L.O3.2**
Jean Rinkel¹, Damien Depannemaeker², Gustavo B.S. Ferreira¹, Giovanni L. Baraldi¹,
 Eduardo X. Miqueles³, Marcia Guimaraes², Carla Scorza²; ¹Universidade Estadual de
 Campinas, ²Universidade Federal de São Paulo, ³Centro Nacional de Pesquisa em
 Energia e Materiais
- 14:30 Development of an x ray tomograph applied to concrete analysis in hydroelectric dams** **L.O3.3***
Vitoldo Swinka Swinka-Filho¹; ¹Institutos Lactec
- 15:00 Visualization and inspection techniques for the analysis of materials by computed tomography in the electrical sector** **L.O3.4***
Klaus de Geus¹; ¹Companhia Paranaense de Energia
- 15:30 Representative Elementary Volume in X-ray Microtomography Rocks Analysis** **L.O3.5***
Ricardo Tadeu Lopes¹; ¹Universidade Federal do Rio de Janeiro

SYMPOSIUM M - Novel sintering processes in Materials Science

Symposium organizers:

Reginaldo Muccillo (UFABC)
André G.L. Prette (Lucideon, UK)

MONDAY, SEPTEMBER 17

Oral presentations

* Invited Lecture

SESSION M. 01 (09:30 - 10:30) - Room Araucária

- 09:30 Flash Sintering of Oxide Ceramics** **M.O1.1***
Vincenzo M. Sglavo¹, Mattia Biesuz¹; ¹Università degli Studi di Trento
- 10:00 Electric field-assisted ultrafast processing of electroceramic materials: microstructures and dielectric properties** **M.O1.2***
Lílian Menezes de Jesus¹, Ronaldo Santos da Silva², Rishi Raj³, Jean-Claude M'Peko⁴; ¹Universidade Federal de São Carlos, ²Universidade Federal de Sergipe, ³University of Colorado Boulder, ⁴Instituto de Física de São Carlos

SESSION M. 02 (11:00 - 12:00) - Room Araucária

- 11:00 Implications of Point Defect Redistribution During Electric-Field Processing of Oxides** **M.O2.1***
Elizabeth C. Dickey¹, Carolyn Grimely¹, Neal Lewis¹, Andre L. G. Prette²; ¹North Carolina State University, ²Lucideon, Stoke-on-Trent, UK
- 11:30 Innovation and reliability of commercial flash sintering** **M.O2.2***
Andre L. G. Prette¹; ¹Lucideon, Stoke-on-Trent, UK

SESSION M. 03 (14:00 - 16:15) - Room Araucária

- 14:00 Electrical behavior and microstructural features of conventionally and electric field-assisted sintered 3 mol% yttria-stabilized zirconia** **M.O3.1**
Sabrina Carvalho¹, Reginaldo Muccillo^{2,1}, Eliana Navarro dos Santos Muccillo¹; ¹Instituto de Pesquisas Energéticas e Nucleares, ²Universidade Federal do ABC
- 14:15 Mg open pore foams manufacturing: mechanical, chemical and morphological characterization.** **M.O3.2**
Jonathan David López Carmona¹, Juan Pablo Molina Rúa¹, Viviana Marcela Posada Perez², Juan Fernando Ramirez Patiño², Gloria Patricia Fernandez Morales¹; ¹Universidad Pontificia Bolivariana, ²Universidad Nacional de Colombia
- 14:30 Spark Plasma Sintering of some Ferroelectric Complex Oxides** **M.O3.3***
José Antônio Eiras¹; ¹Universidade Federal de São Carlos
- 15:00 Spark Plasma Sintering (SPS) process – a promising technique for built up and improving materials** **M.O3.4***
Izabel Fernanda Machado¹; ¹Escola Politécnica de Universidade de São Paulo

- 15:30 Relationship between sintering methods and physical properties of the low positive thermal expansion material $\text{Al}_2\text{W}_3\text{O}_{12}$** M.O3.5
 Luciana Prisco¹, Mayara Guilherme Marzano¹, Patricia Pontón², Antonio Mario Leal Martins Costa¹, Célio Albano da Costa Neto³, Greg Sweet⁴, Carl Romao⁴, Mary Anne White⁴, Bojan A. Marinkovic¹; ¹Pontifícia Universidade Católica do Rio de Janeiro, ²Escuela Politécnica Nacional, ³Universidade Federal do Rio de Janeiro, ⁴Dalhousie University
- 15:45 Nanostructured Scandia Stabilized Zirconia Consolidated by High-Pressure Spark Plasma Sintering** M.O3.6*
Eliana Navarro dos Santos Muccillo¹, Robson Lopes Grosso¹, D N Muche², Ricardo Hauch Castro²; ¹Instituto de Pesquisas Energéticas e Nucleares, ²University of California Davis

Poster presentations

SESSION P2 (18:00 - 19:30)

- 18:00 Sintering under AC electric field of samarium doped ceria** P2.M.70
shirley Leite dos Reis¹, Sabrina Carvalho¹, Eliana Navarro dos Santos Muccillo¹, Reginaldo Muccillo¹; ¹Instituto de Pesquisas Energéticas e Nucleares
- 18:00 Polymer addition (PCMs) phase change materials in the production of blocks only functional cement** P2.M.71
Valter Bezerra Dantas Dantas¹, Marineide Jussara Diniz², Walter Mxweel Sarture Dantas³, Leiliane Alves Oliveira⁴, Ariadne Souza Silva⁴, Uílame Umbelino Gomes⁴; ¹Universidade Federal do Rio Grande do Norte, ²Ufersa, ³Colégio Técnico, ⁴Programa de pós graduação em Ciência e Engenharia de Materiais
- 18:00 Phase formation study by sintering Fe-8.5Cr-1W steel by addition Nb_2O_5** P2.M.72
Roberta Araujo Cavalcante de Menezes¹, Hugo Fernandes Medeiros Silva¹, Elisângela Barros Dantas¹, Ariadne Souza Silva¹, Antonio Eduardo Martinelli¹, Uílame Umbelino Gomes¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Development of High Sintering Ceramics with Nano-Alumina (A- Al_2O_3) and Additives to Apply in Tape Casting** P2.M.73
Larissa Bezerra Silva¹, Ana Paula Peres¹, Antonio Carlos Silva da Costa¹, Wilson Acchar¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Flash sintering of 3 mol% yttria-stabilized zirconia with AC and DC electric fields.** P2.M.74
Sabrina Carvalho¹, Reginaldo Muccillo^{2,1}, Eliana Navarro dos Santos Muccillo¹; ¹Instituto de Pesquisas Energéticas e Nucleares, ²Universidade Federal do ABC
- 18:00 Study of the influence of the addition of nickel in alumina by the route of powder metallurgy** P2.M.75
Arthur Gabriel Ferreira de Oliveira¹, Leiliane Alves Oliveira¹, Uílame Umbelino Gomes¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Study of the evolution of grinding in the $\text{Al}_2\text{O}_3/\text{Ni}$** P2.M.76
Arthur Gabriel Ferreira de Oliveira¹, Leiliane Alves Oliveira¹, Uílame Umbelino Gomes¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Alumina microstructures casting with hydraulic binders: calcium aluminate cement (CAC) and hydratable alumina (HA)** P2.M.77
 Mirian Akiko Kawamura¹, José Luis Sakihama¹, Rafael Salomão¹; ¹Universidade de São Paulo

- 18:00 Evaluation of physical properties of porous calcium hexaluminate structures formed in situ from different sources of alumina and calcia** P2.M.78
José Luis Sakihama¹, Mirian Akiko Kawamura¹, Rafael Salomão¹; ¹Universidade de São Paulo
- 18:00 Effect of sintering parameters on density, microstructure and mechanical properties of HTHP sintered WC/Co hardmetal** P2.M.79
Mariana Chianca Silva¹, Meysam Karimi¹, Uílame Umbelino Gomes¹, Marcello Filgueira²; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Estadual do Norte Fluminense Darcy Ribeiro
- 18:00 Ultrafast synthesis and sintering of materials promoted by electric fields** P2.M.80
Everlin Carolina Ferreira da Silva¹, Luis Carlos Caraschi², Washington Santa Rosa³, Jean-Claude M'Peko²; ¹Universidade de São Paulo, ²Instituto de Física de São Carlos, ³Universidade Federal de São Carlos
- 18:00 Composite CaCO₃/Ti₃SiC₂ sintering by microwave heating** P2.M.81
 Lucas Dias Calado¹, Matheus D Damasceno¹, Wislei R R Osorio¹, Giovana da Silva Padilha¹, Ausdinir Danilo Bortolozo^{2,1}; ¹Faculdade de Ciências Aplicadas, ²Universidade Estadual de Campinas
- 18:00 Effect of the addition of alumina residue in the physical-mechanical properties in order to obtain mullite as a majority phase** P2.M.82
Salvador Kaob de Almeida Taveira¹, Valmir José Silva¹, Wherllyson Patricio Gonçalves¹, Lisiane Navarro de Lima Santana¹; ¹Universidade Federal de Campina Grande
- 18:00 Alternative binder (stainless steel) in hard-metals** P2.M.83
 Alessandra Agna Araújo dos Santos¹, Juliano Augusto Medeiros², Uílame Umbelino Gomes²; ¹Universidade Estadual do Norte Fluminense Darcy Ribeiro, ²Universidade Federal do Rio Grande do Norte
- 18:00 Influence of Al₂O₃ in LKB Glass** P2.M.84
 Thaís M. T. Nascimento¹, João A. L. Silva Junior¹, Carlos Monteiro da Silva Junior¹, Raquel A. P. Oliveira¹; ¹Fundação Universidade Federal do Vale do São Francisco
- 18:00 Study of clays with the addition of wood waste using the fast firing sintering process** P2.M.85
 Chrystiano Araujo Ferreira¹, JOSÉ AURINO ARRUDA CAMPOS FILHO¹, Ricardo Peixoto Suassuna Dutra¹; ¹Universidade Federal da Paraíba
- 18:00 Study of the Laser Sintering Process** P2.M.86
Hitalo de Jesus Bezerra da Silva¹, Valdivânia Albuquerque do Nascimento¹, Moisés das Virgens Santana¹, João Batista de Oliveira Libório Dourado¹; ¹Universidade Federal do Piauí
- 18:00 Study of Hight energy ball milling influence formation of Al₂O₃-10%Ni by spark plasma sintering** P2.M.87
 Braulio Morais¹, Franciné Alves da Costa¹, Uílame Umbelino Gomes¹, Rafael Alexandre Raimundo², Cleber da Silva Lourenço¹, Hugo Fernandes Medeiros Silva¹, MARCELLO FILGUEIRA³, Heytor Vitor Souza Bezerra Azevedo²; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Federal da Paraíba, ³Universidade Estadual do Norte Fluminense Darcy Ribeiro
- 18:00 Ultra-fast synthesis of topological insulator Bi₂Se₃ nanostructures and their magnetoresistance effect** P2.M.88
Leonardo Soares de Oliveira¹, Midlane Sena Medina¹, Elisângela Belleti¹, Marcia Tsuyama Escote¹, Iseli Lourenço Nantes Cardoso¹, José Antônio Souza¹; ¹Universidade Federal do ABC

- 18:00 Micro-structural characterization of stainless steel AISI 304L obtained by powder metallurgy** P2.M.89
Daniel Alves Bezerra¹, Heitor Luigi Batista¹, Manoel Quirino Silva Júnior¹, Maxwell Lopes Bezerra Figueirêdo¹, Áleft Verlanger Rocha Gomes¹, Rodrigo Dias Assis Saldanha¹; ¹Universidade Federal Rural do Semi-Árido
- 18:00 Comparative study of the influence of sintering temperature and compaction pressure for the stainless steels AISI 316L and AISI 304L obtained by powder metallurgy.** P2.M.90
Maxwell Lopes Bezerra Figueirêdo¹, Manoel Quirino Silva Júnior¹, Heitor Luigi Batista¹, Áleft Verlanger Rocha Gomes¹, Daniel Alves Bezerra¹; ¹Universidade Federal Rural do Semi-Árido
- 18:00 Study on the influence of temperature and compacting pressure on the production of AISI 316L stainless steel obtained by powder metallurgy.** P2.M.91
Heitor Luigi Batista¹, Manoel Quirino Silva Júnior¹, Daniel Alves Bezerra¹, Áleft Verlanger Rocha Gomes¹, Maxwell Lopes Bezerra Figueirêdo¹, Rodrigo Dias Assis Saldanha¹; ¹Universidade Federal Rural do Semi-Árido
- 18:00 Sintering of Li-doped gamma-alumina nanopowders** P2.M.92
Raphael Anacleto Martins Pires De Oliveira¹, Douglas Gouvea¹, Lorena Batista Caliman¹; ¹Escola Politécnica de Universidade de São Paulo
- 18:00 Obtainment and characterization of high speed steel obtained by powder metallurgy** P2.M.93
Rodrigo Dias Assis Saldanha¹, Manoel Quirino Silva Júnior¹, Heitor Luigi Batista¹, Daniel Alves Bezerra¹; ¹Universidade Federal Rural do Semi-Árido
- 18:00 Effects of temperature and atomic disorder on the magnetic phase transitions in ZnO nanoparticles obtained by sol gel method** P2.M.94
Ramón Raudel Peña Garcia¹, Yuset Guerra Dávila¹, Bruno Verissimo de Miranda Farias¹, JOSE THIAGO DA SILVA¹, Eduardo Padrón Hernández¹; ¹Universidade Federal de Pernambuco

TUESDAY, SEPTEMBER 18

Oral presentations

* Invited Lecture

SESSION M. 03 (14:00 - 16:15) - Room Araucária

- 14:00 Cold Sintering Process—status and perspectives** M.O3.1*
Thomas Herisson De Beauvoir¹, Jing Guo¹, Xuotong Zhao¹, Hiroto Nakaya¹, Joo-Hwan Seo¹, Kosuke Tsuji¹, Clive A. Randall¹; ¹Materials Research Institute, The Pennsylvania State University, University Park
- 14:30 Thermodynamics of Interfaces Applied to Sintering** M.O3.2*
Douglas Gouvêa¹; ¹Escola Politécnica de Universidade de São Paulo

SYMPOSIUM N - Structure-properties relationship of advanced metallic materials

Symposium organizers:

Leonardo Barbosa Godefroid (UFOP)

Luiz Carlos Rolim Lopes (UFF)

Milton Sergio Fernandes de Lima (IEAv)

Juan Perez Ipiña (Universidad Nacional del Comahue - Argentina)

Pedro Dolabella Portella (Federal Institute for Materials Research and Testing - BAM/Alemanha)

MONDAY, SEPTEMBER 17

Oral presentations

* Invited Lecture

SESSION N. 01 (09:30 - 10:30) - Room Cedro 5

- 09:30 The application of electron backscattering diffraction to microstructural characterization of steel sheets** **N.O1.1***
Nicolau Apoena Castro¹; ¹Universidade Federal do Rio Grande do Norte
- 10:00 Mechanical and Microstructural Performances Of Twip Steel Welded By Laser Process** **N.O1.2**
Vágner Braga^{1,2}, Rafael Humberto Mota de Siqueira², Milton Sergio Fernandes de Lima^{1,2}; ¹Instituto Tecnológico de Aeronáutica, ²Instituto de Estudos Avançados
- 10:15 Strength and microstructural features evolution of superficial contact region of a used hypereutectoid pearlitic rail** **N.O1.3**
Mohammad Masoumi¹, Amilton Sinatora², Helio Goldenstein¹; ¹Universidade de São Paulo, ²Instituto Tecnológico Vale

SESSION N. 02 (11:00 - 12:00) - Room Cedro 5

- 11:00 Friction stir spot welding of AA5052 and DP1000 steel** **N.O2.1**
Cesar Marconi¹, alex costa², Victor Ferrinho Pereira², Maysa Terada², Hernan Svoboda¹; ¹Centro de Desarrollo y Tecnología de Materiales, ²Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais, Campinas
- 11:15 Microhardness Evaluation of the Cr-Hf-Nb Alloys** **N.O2.2**
joão carlos jânio gigolotti¹, Erick Souza de Melo¹; ¹Centro Universitário de Volta Redonda

Poster presentations

SESSION P1 (11:00 - 12:30)

- 11:00 Oxidation Behavior of the Niobium-Modified MAR-M246 Superalloy at 800 and 1000°C in Air** **P1.N.121**
Renato Baldan¹, Artur Mariano de Sousa Malafaia², Carlos Angelo Nunes³, Ingrid Nogami¹, Alef Petrucci¹, Sinara Borborema Gabriel⁴; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade Federal de São João Del Rei, ³Universidade de São Paulo, ⁴Universidade do Estado do Rio de Janeiro
- 11:00 Failure analysis of steel spring band clamps used in automotive applications** **P1.N.122**
Leonardo Barbosa Godefroid¹, Carlos Leonardo de Oliveira Velasco¹, Pedro Augusto Alves Silva Barbosa¹, Valdeci Paula Alvarenga¹, Geraldo Lúcio Faria¹, Rodrigo Rangel Porcaro¹; ¹Universidade Federal de Ouro Preto

- 11:00 Mechanical and microstructural characterization of Dual Phase DP600 steel welded by an Yb:Fiber laser** P1.N.123
monalisa bandeira valentim¹, Rafael Humberto Mota de Siqueira², Milton Sergio Fernandes de Lima²; ¹Faculdade de Tecnologia de Pindamonhangaba, ²Instituto de Estudos Avançados
- 11:00 Composite of use cermet SiC-steel AISI 1020 cutting tool production via powder metallurgy** P1.N.124
Raimison Bezerra de Assis¹, Tércio Graciano Machado¹, Larissa Wendy Santos¹, Mara Tatiane de Souza Tavares¹, Flanelson Maciel Monteiro¹; ¹Instituto Federal de Educação, Ciência e Tecnologia da Bahia
- 11:00 Shorter time synthesis of the CaTiO₃ by microwave-assisted hydrothermal system.** P1.N.125
Sandra de Cássia Pereira¹, Alberthmeiry Teixeira de Figueiredo¹, Cristiano Morita Barrado¹, Marcelo Henrique Stoppa¹, Elson Longo²; ¹Universidade Federal de Goiás, ²Universidade Federal de São Carlos
- 11:00 Micro-structural characterization of cutters and pin of reamer of a oil well** P1.N.126
Ricardo Hugo Nunes Medeiros¹, Manoel Quirino Silva Júnior¹, Ana Paula da Costa Gomes¹; ¹Universidade Federal Rural do Semi-Árido
- 11:00 Local five-fold symmetry and deformation in metallic glasses: a molecular dynamics study** P1.N.127
Alejandro Zuniga¹, Marcela Bergamaschi Tercini¹, Roberto Gomes de Aguiar Veiga¹; ¹Universidade Federal do ABC
- 11:00 Development of tig welding process, in copper alloy, for ultra high vacuum chambers of the sirius project** P1.N.128
Osmar Roberto Bagnato^{1,2,3}, Beatriz Morelli^{2,3}, Bruno Moreli²; ¹Centro Universitário Franciscano do Paraná, ²Universidade São Francisco, ³Brazilian Synchrotron Light Laboratory
- 11:00 Growth direction affecting columnar to equiaxed transition and tertiary dendritic spacing in Al-3wt.%Cu alloy directionally solidified** P1.N.129
Murillo Nascimento Collyer¹, João Marcos Morais Neto¹, Gueber Santos Júnior¹, Derick Patrick Pastana Pantoja¹, André dos Santos Barros¹, Antonio Luciano Seabra Moreira¹; ¹Universidade Federal do Pará
- 11:00 Microstructure and microhardness of directionally solidified Al-6wt.%Cu-2.5wt.%Si Ternary Alloy** P1.N.130
José Augusto França Rodrigues¹, Júlio Augusto da Silva Aviz¹, Fabrícia Sousa Gonzaga¹, Andreza Nascimento Vaz¹, Thiago Antônio Paixão de Sousa Costa¹, Antonio Luciano Seabra Moreira¹; ¹Universidade Federal do Pará
- 11:00 Study, characterization and creep behavior of Ti-6Al-4V alloy with heat treatments: equiaxial, martensite, bimodal and Widmanstätten microstructures** P1.N.131
Tarcila Sugahara¹, Luciana Aparecida Narciso da Silva Briguenta¹, Fabiano Montoro², Danieli Aparecida Pereira Reis^{3,1}; ¹Universidade Federal de São Paulo, ²Laboratorio Nacional de Nanotecnologia, ³Instituto Tecnológico de Aeronáutica
- 11:00 Preparation and characterization of Fe-Mo alloys obtained by the electroplating process using response surface methodology** P1.N.132
Bruna Raísa Silva de Melo¹, José Anderson Machado Oliveira¹, Renato Alexandre Costa de Santana¹, Ana Regina Nascimento Campos¹, Josiane Dantas Costa¹, Mikarla Baía de Sousa¹, Nathália Cristina Morais Lia Fook¹, Arthur Filgueira de Almeida¹, Bianca de Oliveira Evaristo¹, Raissa Alves Queiroga¹, Theophilo Moura Maciel¹; ¹Universidade Federal de Campina Grande

- 11:00 Study of the effects of current density and temperature on the deposition of Co-W alloys using sodium citrate** P1.N.133
Arthur Filgueira de Almeida¹, Raissa Alves Queiroga¹, Bianca de Oliveira Evaristo¹, José Anderson Machado Oliveira¹, Josiane Dantas Costa¹, Mikarla Baía de Sousa¹, Nathália Cristina Morais Lia Fook¹, Renato Alexandre Costa de Santana¹, Ana Regina Nascimento Campos¹; ¹Universidade Federal de Campina Grande
- 11:00 Microstructural evaluation of partially diluted zones obtained by dissimilar welding employing the metals addition of inox 309L and Inconel 625** P1.N.134
WILLIAM CONSTANTINO¹, Nicolau Apoena Castro¹, Augusto José de Almeida Buschinelli¹, RAFAEL BEZERRA MENDES¹, JOSÉ NAELSON CUNHA¹; ¹Universidade Federal do Rio Grande do Norte
- 11:00 Decomposition and reduction of Ammonium Heptamolybdate (AHM)/Copper (Cu) composite powders processed by high energy ball milling** P1.N.135
Luís Matheus Fernandes de Morais¹, Franciné Alves da Costa¹, Uílame Umbelino Gomes¹, Edson Silva Nascimento¹, Cleber da Silva Lourenço¹, Rafael Alexandre Raimundo²; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Federal da Paraíba
- 11:00 Effect of sintering parameters on electrical properties of niobium electrolytic capacitors** P1.N.136
Edson Silva Nascimento¹, Murillo Mello Júnior¹, Meysam Karimi¹, Uílame Umbelino Gomes¹; ¹Universidade Federal do Rio Grande do Norte
- 11:00 Investigation of the morphology of silicon during directional solidification transient an alloy Al-Si-Cu** P1.N.137
Igor Aleksander Barbosa Magno¹, Fabricio Vinicius Andrade de Souza¹, Marlo Costa Oliveira¹, Jacson Malcher Nascimento¹, Thiago Antônio Paixão de Souza Costa², Otávio Fernandes Lima da Rocha²; ¹Universidade Federal do Pará, ²Instituto Federal do Pará
- 11:00 Mechanical properties and characterization of Cu- Al and Cu-Zr alloys system** P1.N.138
Camila Aparecida Rosiak¹, Vanessa Motta Vanessa¹, Marcia Moreira Medeiros¹, Gilberto Carvalho Coelho², Carlos Angelo Nunes², Paulo Atsushi Suzuki², Daniel Walter da Silva Dalmagro¹; ¹Universidade Federal de Mato Grosso, ²Universidade de São Paulo
- 11:00 Effect of the peroxide group on the reactivity of the surface of titanium oxide nanoparticles used to synthesize bismuth titanate powders at lower temperatures** P1.N.139
Patrícia Francatto¹, Emerson Rodrigues Camargo¹; ¹Universidade Federal de São Carlos
- 11:00 Microstructural modifications in arc welded Ni-CNTs@316L nanocomposite** P1.N.140
Marcos Allan Leite dos Reis¹, André Alves Ferreira², Clarissa Hadad de Melo², Sônia Simões², Filomena Viana², Manuel F Vieira²; ¹Universidade Federal do Pará, ²Universidade do Porto
- 11:00 Microstructural characterization of dual phase steel using different heat treating conditions** P1.N.141
Lindolpho Sales Dantas da Costa Lima¹, Luan Mayk Torres Costa¹, Nicolau Apoena Castro¹, Augusto José de Almeida Buschinelli¹; ¹Universidade Federal do Rio Grande do Norte

- 11:00 Correlation between Microstructure, Thermal Parameters and Hardness of a Directionally Solidified Al-Si-Cu Alloy** P1.N.142
Mauricio Silva Nascimento¹, Givanildo Alves dos Santos^{1,2}, Paulo Eduardo Silva Souza¹, Carlos Frajuca¹, Francisco Yastami Nakamoto¹, Márcio Rodrigues da Silva^{3,4}, Vinicius Torres dos Santos^{3,4}, Gilmar Ferreira Batalha⁵, Antonio Augusto Couto^{6,7}; ¹Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, ²Universidade Virtual do Estado de São Paulo, ³Centro Educacional da Fundação Salvador Arena, ⁴Termomecânica São Paulo S.A., ⁵Escola Politécnica de Universidade de São Paulo, ⁶Universidade Presbiteriana Mackenzie, ⁷Instituto de Pesquisas Energéticas e Nucleares
- 11:00 Chips generated during the machining of SAE-8620 using carbide inserts coated with (TiAl)N by the PVD process.** P1.N.143
Anderson Figueiredo da Costa¹, Dilson de Souza Silva²; ¹Instituto Nacional de Pesquisas Espaciais, ²Universidade Ibirapuera
- 11:00 Measurement uncertainty of fracture toughness K_{IC} of metallic materials through Kragten method** P1.N.144
Daniel Antonio Kapper Fabricio¹, Lisiane Trevisan², Afonso Reguly¹; ¹Universidade Federal do Rio Grande do Sul, ²Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul
- 11:00 Mechanical behavior of nanocrystal-containing metallic glasses: a molecular dynamics study** P1.N.145
 Marcela Bergamaschi Tercini¹, Roberto Gomes de Aguiar Veiga¹, Alejandro Zuniga¹; ¹Universidade Federal do ABC
- 11:00 Study of textural properties in hydroxides obtained through the recovery of industrial waste aluminum** P1.N.146
Dienifer F. L. Horsth¹, Tamara Maria de Andrade¹, Mariane Dalpasquale², Fauze Jacó Anaissi¹; ¹Universidade Estadual do Centro Oeste, ²Universidade Tecnológica Federal do Paraná
- 11:00 Optimization of process of obtaining composite titanium carbide acetylene torch.** P1.N.147
 Shirley Vanessa Navas¹, Jose Eduardo Vargas¹; ¹Universidad Industrial de Santander
- 11:00 The effects of tool wear contamination on the plunge region of Friction Stir Welded API 5L X80M steel** P1.N.148
Francini Aline Belz Hesse^{1,2}, Julián David Escobar Atehortua³, Eduardo Bertoni da Fonseca³, Maysa Terada², Rafael Arthur Reghine Giorjão²; ¹Universidade Federal de Santa Catarina, ²Centro Nacional de Pesquisa em Energia e Materiais, ³Universidade Estadual de Campinas
- 11:00 Shape memory characteristics of rapidly solidified Ti-Ni-Hf alloy ribbon** P1.N.149
Walman Benicio de Castro¹, Roniere Leite Soares¹; ¹Universidade Federal de Campina Grande
- 11:00 Microstructural characterization of recycled aluminum from beverage cans by powder metallurgy** P1.N.150
Regina Bertília Dantas de Medeiros¹, Maria Monique de Brito Leite¹, Mauricio Mhirdauí Peres¹; ¹Universidade Federal do Rio Grande do Norte
- 11:00 Manufacturing and characterization of an Al composite with WC-17Co reinforcing particles** P1.N.151
Regina Bertília Dantas de Medeiros¹, Mauricio Mhirdauí Peres¹, Augusto José de Almeida Buschinelli¹; ¹Universidade Federal do Rio Grande do Norte
- 11:00 Local magnetic properties and domain wall profiles of metallic multilayered systems** P1.N.152
Pamela Costa Carvalho¹, Ivan de Paula Miranda¹, Angela Burlamaqui Klautau², Helena Maria Petrilli¹; ¹Universidade de São Paulo, ²Universidade Federal do Pará

- 11:00 Precipitation hardening in a directionally solidified AlSiMg alloy** P1.N.153
Carolina Rizziolli Barbosa¹, Gabriel Mendes Hirayma Machado¹, Hugo André Magalhães Azevedo¹, Fernando Sousa Rocha¹, Otávio Fernandes Lima Rocha¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Pará
- 11:00 Structural and Magnetic Properties of Rare Earth doped AlMnSiCr Quasicrystalline Alloys** P1.N.154
Otávio José Bandeira Otavio¹, Emanuel Laurertan Tavares Emanuel Laurertan¹, Suzana Araujo Barbosa¹, Fernando Luis de Araujo Machado¹; ¹Universidade Federal de Pernambuco
- 11:00 Evaluation of hardness of ASTM A182 P22 steel after physical simulation of friction stir welding and post-weld heat treatments** P1.N.155
Cinthia Cristina Calchi Kleiner¹, Eduardo Bertoni da Fonseca¹, Julián David Escobar Atehortua¹, Maysa Terada², Rafael Arthur Reghine Giorjão², Rodrigo José Contieri¹; ¹Universidade Estadual de Campinas, ²Centro Nacional de Pesquisa em Energia e Materiais
- 11:00 System for measuring the torsion modulus (G) of materials using the technique of mechanical spectroscopy** P1.N.156
Lucas Pereira Piedade¹, Cesar Renato Foschini¹, Carlos Alberto Fonzar Pintão²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Faculdade de Ciências - UNESP - Campus de Bauru
- 11:00 Microstructural analysis of a consolidated Aluminum Powder by extrusion at 375 °C and 425 °C** P1.N.157
Maria Monique de Brito Leite¹, Regina Bertília Dantas de Medeiros¹, Alberto Moreira Jorge Junior², Mauricio Mhirdau Peres¹; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Federal de São Carlos
- 11:00 Effect of carbon nanotubes and nickel oxide on alumina-carbon refractory used in steel making process** P1.N.158
Paula Regina Dutra¹, Pedro Augusto Silva¹, Clascídia A. Furtado¹, Norval Rodrigues Oliveira Junior², Adelina Pinheiro Santos¹; ¹Centro de Desenvolvimento da Tecnologia Nuclear, ²RHI Magnesita
- 11:00 Optimization of the synthesis of coordination polymers based on modified calix[4]arene using a factorial design 2²** P1.N.159
MARIA ALAIDE OLIVEIRA¹, ALLANA CHRISTINA FROS¹, JOANNA ELZBIETA KULESZA¹, Bráulio Silva Barros¹; ¹Universidade Federal de Pernambuco
- 11:00 Selective adsorption of toluene on two calix[4]arene-based MOFs quantified by ¹³C qNMR** P1.N.160
ALLANA CHRISTINA FROS¹, MARIA ALAIDE OLIVEIRA¹, Fernando Hallwass¹, Bráulio Silva Barros¹, JOANNA ELZBIETA KULESZA¹; ¹Universidade Federal de Pernambuco
- 11:00 HAZ characterization in the API 5L X80 steel in dissimilar board with AISI 4130 steel, after PWHT cycles, used in the manufacture of drilling risers** P1.N.161
JOSÉ NAELSON CUNHA¹, GUDSON NICOLAU DE MELO^{2,1}, WILLIAM CONSTANTINO², Nicolau Apoena Castro², Augusto José de Almeida Buschinelli¹; ¹Programa de pós graduação em Ciência e Engenharia de Materiais, ²Universidade Federal do Rio Grande do Norte

- 11:00 Morphological Analysis of Al₂Cu second phase particles and eutectic Si in Al-3% Cu and Al-3% Si Alloys Solidified in a horizontal directional device** P1.N.162
Regiane Socorro Negrão Barros¹, Rangel Vasconcelos da Silva RANGEL VASCONCELOS DA¹, André dos Santos Barros², Camila Yuri Negrão Konno², Diego de Leon Brito Carvalho³, Maria Adrina Paixão da Silva¹, Antonio Luciano Seabra Moreira¹; ¹Universidade Federal do Pará, ²Universidade Estadual de Campinas, ³Instituto Federal de Educação, Ciência e Tecnologia do Pará
- 11:00 Correlation between Thermal Parameters, tool wear and surface roughness of na Al-3.0wt.%Si Alloy submitted to necking processes** P1.N.163
Vanderson Borges Gomes¹, Mateus dos Santos Reis¹, Jacson Malcher Nascimento¹, Maria Adrina Paixão da Silva¹, Leandro Valdomiro de Sousa Fernandes¹, Rangel Vasconcelos da Silva RANGEL VASCONCELOS DA¹; ¹Universidade Federal do Pará
- 11:00 Manufacturing of rattan-derived SiC/Si-Ni composites by low pressureless melt infiltration-reaction** P1.N.164
Renata Fumagali Scireca¹, Carlos Renato Rambo¹, Hazim Ali Al-Qureshi¹; ¹Universidade Federal de Santa Catarina
- 11:00 Optimization of the toluene adsorption on sonochemically obtained Zn-based Metal-Organic Framework** P1.N.165
Lyara Ferreira Pereira¹, ALLANA CHRISTINA FROS¹, JOANNA ELZBIETA KULESZA¹, Bráulio Silva Barros¹, Antônio Marcos Urbano de Araújo²; ¹Universidade Federal de Pernambuco, ²Universidade Federal do Rio Grande do Norte
- 11:00 The size ratio effect on the mechanical behavior of AL_P/SI_P composites** P1.N.166
Eder Lopes Ortiz¹, Murilo Shiniti Koizumi¹, Wislei R R Osorio¹, Ausdindir Danilo Bortolozo^{2,1}, Giovana da Silva Padilha¹; ¹Faculdade de Ciências Aplicadas, ²Universidade Estadual de Campinas
- 11:00 Fe₃O₄/LOF-based composites: Synthesis, characterization and selective adsorption of dyes** P1.N.167
Ana Karina Pereira Leite¹, Bráulio Silva Barros^{2,1}, Dulce Maria de Araújo Melo¹, JOANNA ELZBIETA KULESZA², ALLANA CHRISTINA FROS², José Daniel Da Silva Fonseca², Antônio Marcos Urbano de Araújo¹; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Federal de Pernambuco
- 11:00 Synthesis of gold nanorods with hydroxylated surfactants and its evaluation in the reaction of p-nitrophenol** P1.N.168
Francielle Moura Oliveira¹, Gabriele Rocha Pereira¹, Lucas Rafael B. A. Nascimento¹, Claudia Manuela Santos Calado¹, Mario Roberto Meneghetti¹, Monique Gabriella Angelo da Silva¹; ¹Universidade Federal de Alagoas
- 11:00 Reuse of the growth solution in the AuNRs synthesis** P1.N.169
Francielle Moura Oliveira¹, Gabriele Rocha Pereira¹, Lucas Rafael B. A. Nascimento¹, Mario Roberto Meneghetti¹, Monique Gabriella Angelo da Silva¹; ¹Universidade Federal de Alagoas
- 11:00 Microstructural characterization of High Strength Low Alloy steel by different microscopic techniques** P1.N.170
Luan Mayk Torres Costa¹, Lindolpho Sales Dantas da Costa Lima¹, Nicolau Apoena Castro¹; ¹Universidade Federal do Rio Grande do Norte
- 11:00 Evaluation of the Heat Affected Zone on AISI 1020 Steel Through the Magnetic Barkhausen Noise (MBN)** P1.N.171
GUDSON NICOLAU DE MELO¹, NÚBIA RIBEIRO MACHADO¹, Nicolau Apoena Castro¹, FELIPE BOHN¹; ¹Universidade Federal do Rio Grande do Norte

- 11:00 Effect of R-ratio and overloads on the fatigue crack growth resistance of two different pearlitic steels for railroad application** P1.N.172
Tamara Caroline Guimarães Vilela¹, Luiza Pessoa Moreira¹, Renata Mangini Santos¹, Geraldo Lúcio Faria¹, Leonardo Barbosa Godefroid¹; ¹Universidade Federal de Ouro Preto
- 11:00 Structural relationship of Magadiite tin silicate by Raman and infrared spectroscopy** P1.N.173
Tiago Gomes dos Santos¹, Mario Roberto Meneghetti¹, Antonio Osimar Sousa da Silva¹, Simoni Margareti Plentz Meneghetti¹; ¹Universidade Federal de Alagoas
- 11:00 Microstructural evolution of the Sn-2wt%Sb solder alloy solidified under slow cooling conditions** P1.N.174
Aline Ferreira Schon¹, Luis Eduardo Alves Lago Filho¹, Bismarck Luiz Silva¹, José Eduardo Spinelli²; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Federal de São Carlos
- 11:00 Mechanical and metalurgical qualification of welds produced by the process Friction Taper Plug Welding (FTSW) applied in stainless steel duplex UNS S31803** P1.N.175
Douglas Martinazzi¹, Cleber Rodrigo Lima Lessa², Diogo Trento Buzzati¹, Adriano Scheid³, Arlan Pacheco Figueiredo², Afonso Reguly¹; ¹Universidade Federal do Rio Grande do Sul, ²Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Sul, ³Universidade Federal do Paraná
- 11:00 Nickel ferrite nanoparticles as adsorbents of amoxicillin in water** P1.N.176
Nathália Madureira Simões^{1,2}, PATRICIA MARIANA ALVES CAETANO², Adriana Silva de Albuquerque²; ¹Universidade Fumec, ²Centro de Desenvolvimento da Tecnologia Nuclear
- 11:00 The effect of annealing temperature in the microstructure of Fe-30Mn-(8-14)Al-0.25C low density steel** P1.N.177
Juliano Soyama¹, Sydney Ferreira Santos¹, Carlos Triveño Rios¹; ¹Universidade Federal do ABC
- 11:00 Hydrogen Storage Properties for Mg-5Fe-5Ti- SWCNT Mixtures Processed by High Energy Milling and Equal-Channel Angular Pressing** P1.N.178
Bruno Diego de Oliveira¹, Erika Biral Baptistella¹, Kátia Regina Cardoso¹, Dilermando Nagle Travessa¹, Daniel Rodrigo Leiva², Alberto Moreira Jorge Junior², Tomaz Toshimi Ishikawa², Walter José Botta Filho², Gisele Ferreira Lima¹; ¹Universidade Federal de São Paulo, ²Federal University of Sao Carlos
- 11:00 Hydrogen storage properties of Mg-Al-Fe-Ni-Ti-Nb composites prepared by high energy milling.** P1.N.179
Caroline Biral Baptistella¹, Bruno Diego de Oliveira¹, Erika Biral Baptistella¹, Gisele Ferreira Lima¹, Kátia Regina Cardoso¹, Daniel Rodrigo Leiva², Alberto Moreira Jorge Junior²; ¹Universidade Federal de São Paulo, ²Universidade Federal de São Carlos
- 11:00 Processing of Mg-xTi (at %) composites for hydrogen storage by high energy ball milling** P1.N.180
Erika Biral Baptistella¹, Bruno Diego de Oliveira¹, Kátia Regina Cardoso¹, Dilermando Nagle Travessa¹, Daniel Rodrigo Leiva², Alberto Moreira Jorge Junior², Gisele Ferreira Lima¹; ¹Universidade Federal de São Paulo, ²Federal University of Sao Carlos
- 11:00 CrSi₂ layer synthesized by high current Cr ion implantation for Schottky diode applications** P1.N.181
Ricardo Valli¹, Felipe Souza Oliveira², Larissa Otubo³, Rossano Lang¹; ¹Universidade Federal de São Paulo, ²Universidade de São Paulo, ³Instituto de Pesquisas Energéticas e Nucleares

- 11:00 Microstructure and mechanical properties of AlFeCrCoNi high entropy alloys** P1.N.182
ANA MARIA ZEMANATE¹, Laura Ardila Rodriguez¹, Osmar De Sousa Santos²,
 DILERMANDO TRAVESSA¹, Kátia Regina Cardoso¹; ¹Universidade Federal de São
 Paulo, ²Instituto Tecnológico de Aeronáutica
- 11:00 Effect of high energy ball milling on crystalline structure and morphology of Cu-
SiC composite powders** P1.N.183
Nailton Torres Câmara¹, Franciné Alves Costa¹, Uílame Umbelino Gomes¹, Rafael
 Alexandre Raimundo², Freud Araújo Medeiros¹, Hugo Fernandes Medeiros Silva¹,
 Cleber da Silva Lourenço¹; ¹Universidade Federal do Rio Grande do
 Norte, ²Universidade Federal da Paraíba
- 11:00 The temperature dependence of saturation magnetization for yttrium iron garnet
doped with Zn, Ni and Co** P1.N.184
Filipe Rogerio de Souza Quirino¹, Ramón Raudel Peña Garcia¹, Yuset Guerra Dávila¹,
 Lídice Aparecida Pereira Gonçalves², JEAN FELIPE OLIVEIRA DA SILVA¹, Eduardo
 Padrón Hernández¹; ¹Universidade Federal de Pernambuco, ²Instituto Federal de
 Pernambuco
- 11:00 Influence of process parameters on laser surface heat treatment of DP600 steel** P1.N.185
Paula Cardoso Lauar^{1,2}, Luciana Carvalho Barbosa^{1,2}, Vitor Ribeiro Jardim², Davi
 Neves², Rudimar Riva², Walter Miyakawa², Aline Capella de Oliveira¹; ¹Universidade
 Federal de São Paulo, ²Instituto de Estudos Avançados
- 11:00 Obtaining of composite powders of Mo-28% Ag from the process of high energy
ball milling and decomposition and reduction** P1.N.186
Freud Araújo Medeiros¹, Franciné Alves Costa¹, Uílame Umbelino Gomes¹, Rafael
 Alexandre Raimundo², Cleber da Silva Lourenço¹, Nailton Torres Câmara¹, Edson Silva
 Nascimento¹; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Federal da
 Paraíba
- 11:00 Influence of high energy energy ball milling on the dilatometric behavior during
Cu-10% pC composite sintering.** P1.N.187
Cleber da Silva Lourenço¹, Franciné Alves da Costa¹, Uílame Umbelino Gomes¹, Freud
 Araújo Medeiros¹, Nailton Torres Câmara¹, Luís Matheus Fernandes de Moraes¹, Rafael
 Alexandre Raimundo²; ¹Universidade Federal do Rio Grande do Norte, ²Universidade
 Federal da Paraíba
- 11:00 Effect of high energy ball milling for obtaining Cu-10% pC composite sintered by
spark plasma sintering** P1.N.188
Cleber da Silva Lourenço¹, Franciné Alves da Costa¹, Uílame Umbelino Gomes¹, Rafael
 Alexandre Raimundo², Ariadne Souza Silva¹, Meysam Karimi¹, MARCELLO
 FILGUEIRA³, Heytor Vitor Souza Bezerra Azevedo²; ¹Universidade Federal do Rio
 Grande do Norte, ²Universidade Federal da Paraíba, ³Universidade Estadual do Norte
 Fluminense Darcy Ribeiro
- 11:00 Structural and magnetic properties of the Mn_{2-x}Fe_xSn compounds (0.00 ≤ x ≤ 2.00,
with Δx = 0.25)** P1.N.189
Marissol Rodrigues Felez¹, Adelino de Aguiar Coelho², Sergio Gama¹; ¹Universidade
 Federal de São Paulo, ²Universidade Estadual de Campinas
- 11:00 Characterization of induced martensite in NiTi alloy** P1.N.190
 Rivaldo Lins Rocha Filho¹, Nicolau Apoena Castro¹, Guilherme Guedes Oliveira¹,
 Thomas Monteiro Oliveira¹, Luan Mayk Torres Costa¹, Augusto José de Almeida
 Buschinelli¹; ¹Universidade Federal do Rio Grande do Norte

- 11:00 Microstructure of lean duplex stainless steel UNS S32304 welded joints by saw ice** P1.N.191
Neice Ferreira dos Santos¹, João Henrique Nery Garcia¹, Ronaldo Cardoso Júnior², Paulo José Modenesi², Wagner Reis da Costa Campos¹, Luiza Esteves¹; ¹Centro de Desenvolvimento da Tecnologia Nuclear, ²Universidade Federal de Minas Gerais
- 11:00 Photoluminescent sensor based on Eu-doped Ca-MOF for detection of Cr (III) and Cr (VI)** P1.N.192
Indira Daniela Pineda Hernandez¹, Bráulio Silva Barros¹, JOANNA ELZBIETA KULESZA¹, Antonio Marcos Urbano de Araujo², Arthur Felipe de Farias Monteiro¹, Ana Karina Pereira Leite²; ¹Universidade Federal de Pernambuco, ²Universidade Federal do Rio Grande do Norte
- 11:00 Characterization and quantification of sigma and chi phases in a duplex stainless steel UNS S31803 after isothermal aging heat treatment at 750°C** P1.N.193
Darlan Vale Bayão¹, Geraldo Lúcio de Faria², Emiliana Cristina Marques Arthuso³, Sidney Nicodemos da Silva¹, Ivete Peixoto Pinheiro Silva¹; ¹Centro Federal de Educação Tecnológica de Minas Gerais, ²Universidade Federal de Ouro Preto, ³Aperam South America
- 11:00 Microstructure and mechanical properties of spray deposited/forged and heat treated A319** P1.N.194
brenda juliet martins freitas¹, Claudemiro Bolfarini¹; ¹Universidade Federal de São Carlos
- 11:00 Continuous Multiclassification of Digital Images In Sections of Gray-level Histograms** P1.N.196
Igor Jordão Marques¹, Guilherme Gadelha Sousa¹, Luís Henrique Rodrigues Apolinário¹, Tahiana Francisca da Conceição Hermenegildo¹, Tiago F.A. Santos¹; ¹Universidade Federal de Pernambuco
- 11:00 Microstructural characterization of NTC/AISI 304L nanocomposite produced through P-GTAW process** P1.N.197
Paola Evelen Costa Baia¹, Danyella Crystyane Silva cardoso¹, diego jorge alves borges¹, Cristhian Ricardo Loayza¹, Eduardo de Magalhães Braga¹; ¹Universidade Federal do Pará
- 11:00 Characterization of NITI blades and active compounds through electrothermomechanic tests** P1.N.198
Paulo Ricardo Oliveira Queiroz¹, Zoroastro Torres Vilar¹, Luiz Paulo Queiroz², William Lopes Bezerra¹; ¹Universidade Federal Rural do Semi-Árido, ²Instituto Federal de Educação, Ciência e Tecnologia do Ceará
- 11:00 Microstructure and high-temperature oxidation behavior of an Fe-Mn-Si-Cr-Ni-Co shape memory stainless steel** P1.N.199
Rodrigo Silva¹, Camila Arana¹, Anibal Andrade Mendes¹, Jorge Otubo², Vitor Luiz Sordi¹, Carlos Alberto Della Rovere¹; ¹Federal University of Sao Carlos, ²Instituto Tecnológico de Aeronáutica

SESSION N. 03 (14:00 - 16:15) - Room Cedro 5

- 14:00 Influence of circular laser welding parameters on the microstructure and mechanical properties of stainless steel AISI 304 welded joints** N.O3.1
Deisi Vieira¹, Vágner Braga¹, Rafael Humberto Mota de Siqueira², monalisa bandeira valentim³, Milton Sergio Fernandes de Lima²; ¹Instituto Tecnológico de Aeronáutica, ²Instituto de Estudos Avançados, ³Faculdade de Tecnologia de Pindamonhangaba

- 14:15 Chemical disorder and functionalities of Ni₂MnGa alloy thin films** **N.O3.2**
Aluizio Jose Salvador¹, Itamar Tomio Neckel², Dante Homero Mosca¹; ¹Universidade Federal do Paraná, ²Brazilian Synchrotron Light Laboratory
- 14:30 Improvements in hydrogen storage properties in Ti and Mg - based metal hydrides** **N.O3.3**
Sydney Ferreira Santos¹; ¹Universidade Federal do ABC
- 14:45 Nanoscale Orientation and Composition Mapping Characterization of Nanocrystalline Phases in Advanced Alloys and Interfaces** **N.O3.4**
Conrado Ramos Moreira Afonso¹, Vicente Amigó Borrás², Walter José Botta¹, Claudio S. Kiminami¹; ¹Universidade Federal de São Carlos, ²Universidad Politécnica de Valencia
- 15:00 Interface properties of Pd/Fe/Ir(111) and Pd/Co/Ir(111): a case study to understand noncollinear magnetism** **N.O3.5**
Ivan de Paula Miranda¹, Angela Burlamaqui Klautau², Helena Maria Petrilli¹; ¹Universidade de São Paulo, ²Universidade Federal do Pará
- 15:15 Processing, microstructure, mechanical and corrosive behavior of high entropy alloys in the Fe-Co-Cr-Ni-Cu-Al system** **N.O3.6**
William de Paula Santos¹, Carlos Triveño Rios¹; ¹Universidade Federal do ABC
- 15:30 Transmission electron microscopy as a realistic data source for the micromagnetic simulation of polycrystalline nickel nanowires** **N.O3.7**
Claudio Abreu de França¹, Yuset Guerra Dávila¹, Eduardo Padrón Hernández¹; ¹Universidade Federal de Pernambuco

SYMPOSIUM 0 - Materials and Fabrication Processes for Aeronautic and Space Applications

Symposium organizers:

Gilberto Carvalho Coelho (EEL-USP)
Carlos Angelo Nunes (EEL-USP)
Catherine J. Parrish (Boeing)
Fernando Ferreira Fernandez (Embraer)
José Daniel Diniz Melo (UFRN)
Milton Sergio Fernandes de Lima (IEAv/DCTA)

MONDAY, SEPTEMBER 17

Oral presentations

* Invited Lecture

SESSION O. 01 (09:30 - 10:30) - Room Flamboyant 1

- 09:30 Boeing overview, global innovation in brazil and aerospace materials** **O.O1.1***
Antonini Puppim Macedo¹, Catherine J. Parrish¹; ¹Boeing Research and Technology
- 10:15 Bulk catalyst to satellite propulsion** **O.O1.2**
Luís Gustavo Ferroni Pereira¹, Cláudia Santos Salim¹, Leandro José Maschio²,
Leonardo Henrique Gouvea², Sayuri Okamoto², Ricardo Vieira²; ¹Universidade de São Paulo, ²Instituto Nacional de Pesquisas Espaciais

SESSION O. 02 (11:00 - 12:00) - Room Flamboyant 1

- 11:00 Microstructure and Mechanical Properties of AA2198-T851 Friction Stir Welded For Aeronautical Application** **O.O2.1**
Carla Isabel dos Santos Maciel¹, Evandro Menassi Siqueira¹, Cassius Olivio Figueiredo Terra Ruchert², Victor Ferrinho Pereira³, François Brisset⁴, Waldek Wladimir Bose Filho¹; ¹Escola de Engenharia de São Carlos, ²Escola de Engenharia de Lorena, ³Laboratorio Nacional de Nanotecnologia, ⁴Institut de Chimie Moléculaire et des Matériaux d'Orsay, Université Paris-Sud 11
- 11:15 Intermetallic reinforced aluminium matrix nanocomposite fabricated by Friction Stir Processing** **O.O2.2**
Jairo Breno Francisco de Oliveira Barauna¹, Nathália Carolina Verissimo², Matheus Henrique Siqueira da Silva¹, Rodnei Bertazzoli¹; ¹Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais, Campinas, ²Instituto Tecnológico de Aeronáutica
- 11:30 Diffusion bonding of 2024 aeronautical sheets with transient liquid phase interlayer and evaluation of thermal spraying deposition techniques** **O.O2.3**
Wanderson Santana da Silva¹, Priscila da Costa Gonçalves¹, Lucas de Andrade Caldas¹, Marcia Barbosa Henriques Mantelli¹, Ramón Sigifredo Cortés Paredes², Aloisio Nelmo Klein¹, Augusto José de Almeida Buschinelli³, Mauricio Mhirdauí Peres³, Fabio Santos da Silva⁴, Fernando Ferreira Fernandez⁴; ¹Federal University of Santa Catarina, ²Universidade Federal do Paraná, ³Universidade Federal do Rio Grande do Norte, ⁴Embraer
- 11:45 Analysis of AA2024/Ti6Al4V interfaces obtained by friction stir welding** **O.O2.4**
Victor Ferrinho Pereira^{1,2}, alex costa³, Maysa Terada², Julián David Escobar Atehortua¹, Eder Socrates Najar Lopes¹; ¹Universidade Estadual de Campinas, ²Centro Nacional de Pesquisa em Energia e Materiais, ³Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais, Campinas

SESSION O. 03 (14:00 - 16:15) - Room Flamboyant 1

- 14:00 Long Term Research & Technology in Aerospace: Relationship between Industry & Research Institute** O.03.1*
Fernando Ferreira Fernandez¹; ¹Embraer
- 14:45 Deposition of titanium in aluminum alloys by Friction Surfacing** O.03.2
Victor Ferrinho Pereira¹, Matheus Henrique Siqueira da Silva¹, Alex Matos da Silva Costa¹, Maysa Terada¹; ¹Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais, Campinas
- 15:00 Application of Friction Surfacing to the Production of Aluminum Coatings on the Aeronautical Alloys** O.03.3
Andre Luis Moreira Carvalho¹, Juliana de Paula Martins², Victor Ferrinho Pereira³, Fernando Ferreira Fernandez⁴; ¹Universidade Estadual de Ponta Grossa, ²Universidade Tecnológica Federal do Paraná, ³Centro Nacional de Pesquisa em Energia e Materiais, ⁴Embraer
- 15:15 Surface nitriding of Ti-6Al-4V alloy with Widmanstätten microstructure using CO₂ laser** O.03.4
Luciana Aparecida Narciso da Silva Briguente¹, Danieli Aparecida Pereira Reis¹, Aline Capella de Oliveira¹; ¹Universidade Federal de São Paulo
- 15:30 The effect of Ti and Cr on the growth of multilayered silicide coatings for the V-4Cr-4Ti alloy** O.03.5
Nabil Chaia¹, Stéphane Mathieu², Nicolas David², Michel Vilasi²; ¹Universidade de São Paulo, ²Université de Lorraine
- 15:45 Highly Flexible Conductive Nanocomposite Films for Aerospace Applications** O.03.6
Elvis Carneiro Monteiro¹, Marcella Cristina Neves Alvarenga¹, Antonio Ferreira Avila¹; ¹Universidade Federal de Minas Gerais
- 16:00 Anticorrosive performance of superhydrophobic/hydrophobic films obtained on AA2024-T3 alloy surface** O.03.7
Suelen Weimer Cendron¹, Daniel Eduardo Weibel¹; ¹Universidade Federal do Rio Grande do Sul

Poster presentations

SESSION P2 (18:00 - 19:30)

- 18:00 Gamma Titanium aluminides production by powder metallurgy** P2.O.95
Vinicius Rodrigues Henriques¹, Eduardo tavares Galvani¹; ¹Instituto de Aeronáutica e Espaço
- 18:00 Study of microwave absorbers in x band based on epoxy resin/aluminum particles composites** P2.O.96
Felipe Silva Pinto¹, Magali Mayumi Ueno¹, Simone Souza Pinto¹, Newton Adriano Santos Gomes², Mirabel Cerqueira Rezende¹, Fabio Roberto Passador¹; ¹Universidade Federal de São Paulo, ²Instituto Tecnológico de Aeronáutica
- 18:00 Encapsulated epoxy microcapsules for application in anticorrosive coatings** P2.O.97
Beatriz Simão de Souza Neta Mendes¹, Ana Cláudia Medeiros de Carvalho¹, Fernando Ferreira Fernandez², Fabio Santos da Silva², Evans Paiva da Costa Ferreira¹, Maria Carolina Burgos Costa¹, José Daniel Diniz Melo¹; ¹Universidade Federal do Rio Grande do Norte, ²Embraer

- 18:00 Synthesis of poly (urea-formaldehyde) (PUF) microcapsules with dicyclopentadiene (DCPD) for self-healing** **P2.O.98**
 Bárbara de Oliveira Rocha¹, Vinicius Silva Pontes¹, Evans Paiva da Costa Ferreira¹, Fernando Ferreira Fernandez², Fabio Santos da Silva², José Daniel Diniz Melo¹, Maria Carolina Burgos Costa¹; ¹Universidade Federal do Rio Grande do Norte, ²Embraer
- 18:00 Influence of GNS on mechanical properties and morphological characteristics in nanocomposites of PFA/GNS** **P2.O.99**
Larissa Stieven Montagna¹, Thaís Larissa do Amaral Montanheiro¹, Fabio Santos da Silva², Silvia Sizuka Oishi³, Fabio Roberto Passador¹, Mirabel Cerqueira Rezende¹; ¹Universidade Federal de São Paulo, ²Embraer, ³Instituto Nacional de Pesquisas Espaciais
- 18:00 Evaluation of interrupted ply in the carbon fiber laminate composites for reuse proposal** **P2.O.100**
Marcos Yutaka Shiino¹, Marcelo Majewski¹, Maria Odila Hilário Cioffi¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 18:00 Evaluation of shape memory alloys as actuator in unmanned aerial vehicles** **P2.O.101**
 Mayara Auxiliadora Castilho Benites¹, João Gabriel Benedito Duarte¹, Edson Godoy¹, Marcia Moreira Medeiros¹; ¹Universidade Federal de Mato Grosso
- 18:00 Electromagnetic shielding behavior using cobalt oxide electrodeposited onto activated carbon fiber felt** **P2.O.102**
 Barbara Pinheiro¹, Miguel Angelo Amaral Junior¹, jossano saldanha marcuzzo¹, Aline Castilho Rodrigues¹, Diego Edisson Florez Vergara¹, Sandro Fonseca Quirino², Jorge T Matsushima³, Maurício Ribeiro Baldan¹; ¹Instituto Nacional de Pesquisas Espaciais, ²ETEP Faculdades, ³Faculdade de Tecnologia de São José dos Campos
- 18:00 Study of Materials application in an AeroDesign prototype based on its mechanical properties** **P2.O.103**
Pedro Celestino Neto¹, Ramsés Otto Cunha Lima¹, Stefany Kariny dos Santos de Souza Queiroz¹; ¹Universidade Federal Rural do Semi-Árido
- 18:00 A comparative study between ferrite MnZn and iron carbonyl composites in the dielectric matrix for the application of electromagnetic shielding on the X-band (8,2- 12,4 GHz).** **P2.O.104**
Braulio Haruo Kondo Lopes¹, Diego Edisson Florez Vergara¹, Roberto Camargo Portes², Adriana Medeiros Gama³, Sandro Fonseca Quirino², Maurício Ribeiro Baldan¹; ¹Instituto Nacional de Pesquisas Espaciais, ²ETEP Faculdades, ³Instituto Tecnológico de Aeronáutica
- 18:00 Fractographic aspect of adhesively bonded composite joints under cyclic loading in Mode I delamination** **P2.O.105**
Geraldo Maurício Cândido¹, Francis Mariana Gonzalez¹, Felipe Parise Garpelli¹, Rita de Cássia Sales², Marcos Yukata Shiino³, Mauricio Vicente Donadon¹; ¹Instituto Tecnológico de Aeronáutica, ²Faculdade de Tecnologia de São José dos Campos, ³Universidade Estadual Paulista Júlio de Mesquita Filho
- 18:00 Experimental investigation of the NbAl₃-VAl₃ isopleth** **P2.O.106**
Karoline Elerbrock Borowski¹, Julio Cesar Pereira¹, Antonio Augusto A.P Silva², Nabil Chaia¹, Gilberto Carvalho Coelho¹, Carlos Angelo Nunes¹, Catherine J. Parrish³, James D. Cotton³; ¹Universidade de São Paulo, ²Universidade Federal de Itajubá, ³Boeing Research and Technology

- 18:00 Experimental investigation of the *liquidus* projection and isothermal section at 1150°C assisted by thermodynamic modeling of Al-Ti-Zr ternary system** **P2.O.107**
Danilo Alencar Abreu¹, Antonio Augusto A.P Silva², Caio Simao Barros¹, Julio Cesar Pereira¹, Nabil Chaia¹, Gilberto Carvalho Coelho¹, Carlos Angelo Nunes¹, Catherine J. Parrish³, James D. Cotton³; ¹Universidade de São Paulo, ²Universidade Federal de Itajubá, ³Boeing Research and Technology
- 18:00 Delamination propagation behavior dependence with fiber volume fraction in laminate composites: acoustic emission analysis** **P2.O.108**
Roberto Ferreira Motta Junior¹, Marcos Yutaka Shiino¹, Maria Odila Hilário Cioffi¹, Reyndert Christiaan Alderliesten²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Faculty of Aerospace Engineering, Delft University of Technology
- 18:00 Experimental investigation of the ZrAl₂-ZrV₂ isopleth** **P2.O.109**
Vitória de Melo Silveira¹, Denis Felipe de Barros¹, Nabil Chaia¹, Gilberto Carvalho Coelho¹, Carlos Angelo Nunes¹, Catherine J. Parrish², James D. Cotton²; ¹Universidade de São Paulo, ²Boeing Research and Technology
- 18:00 A comparative study between simulated phases and those found in XRD of the AlMgZnSiCu aluminum alloy processed by spray forming** **P2.O.110**
Odney Carlos Brondino^{1,2}, Nair Cristina Margarido Brondino³, Lucas Barcelos Otani¹, Claudemiro Bolfarini¹; ¹Universidade Federal de São Carlos, ²Universidade Tecnológica Federal do Paraná, ³Universidade Estadual Paulista Júlio de Mesquita Filho
- 18:00 Electromagnetic wave absorption properties of carbon-manganese microparticles/epoxy resin for aerospace shielding** **P2.O.111**
Diego Edisson Florez Vergara¹, Braulio Haruo Kondo Lopes¹, Roberto Camargo Portes^{1,2}, Sandro Fonseca Quirino², Guilherme Frederico Bernardo Lenz e Silva³, Gisele Aparecida Amaral-Labat³, Mauricio Ribeiro Baldan¹; ¹Instituto Nacional de Pesquisas Espaciais, ²ETEP Faculdades, ³Universidade de São Paulo
- 18:00 Experimental investigation of a new ternary phase in the Al-V-Zr system at 1200°C** **P2.O.112**
Denis Felipe de Barros¹, Vitória de Melo Silveira¹, Julio Cesar Pereira¹, Nabil Chaia¹, Gilberto Carvalho Coelho¹, Carlos Angelo Nunes¹, Catherine J. Parrish², James D. Cotton²; ¹Universidade de São Paulo, ²Boeing Research and Technology
- 18:00 Particle size influence on microwave absorbers properties based on carbonyl iron particles/silicone rubber matrix composites** **P2.O.113**
Ana Paula Silva Oliveira¹, Simone Souza Pinto², Newton Gomes³, Mirabel Cerqueira Rezende², Braulio Haruo Kondo Lopes¹, Barbara Silva Pinheiro¹, Sandro Fonseca Quirino¹, Maurício Ribeiro Baldan¹; ¹Instituto Nacional de Pesquisas Espaciais, ²Universidade Federal de São Paulo, ³Instituto Tecnológico de Aeronáutica
- 18:00 Analysis of the shielding effectiveness in the X - Band frequency of polymer composite based on graphite in flakes** **P2.O.114**
Roberto Camargo Portes¹, Braulio Haruo Kondo Lopes², Diego Edisson Florez Vergara¹, Aline Castilho Rodrigues¹, Sandro Fonseca Quirino¹, Maurício Ribeiro Baldan¹; ¹Instituto Nacional de Pesquisas Espaciais, ²National Institute for Space Research
- 18:00 Isothermal section at 1200 °C of the Al-Nb-V system** **P2.O.115**
Julio Cesar Pereira¹, Antonio Augusto Araujo Pinto Silva², Karoline Elerbrock Borowski¹, Nabil Chaia¹, Denis Felipe de Barros¹, Gilberto Carvalho Coelho¹, Carlos Angelo Nunes¹, Catherine J. Parrish³, James D. Cotton³; ¹Escola de Engenharia de Lorena, ²Universidade Federal de Itajubá, ³Boeing Research and Technology

- 18:00 Development of automated microwave reactor for synthesis of cyclocarbonates** **P2.O.116**
Ariana Freire Andrade¹, Rodrigo de Carvalho Paes Loureiro², Rodrigo Biscaro Nogueira³, Christiano Luna Arraes³; ¹Universidade Estadual de Campinas, ²Universidade Federal do Ceará, ³Universidade Federal do Amazonas
- 18:00 Analysis of the microstructural evolution of an A380 alloy under the effect of the globularization test** **P2.O.117**
Luciano Augusto Lourençato¹, Douglas Rafael Costa Barduco¹, João Paulo Gabre¹; ¹Universidade Tecnológica Federal do Paraná
- 18:00 Nb-modified MAR-M246 superalloy: thermal stability and mechanical testing** **P2.O.118**
Luciano Braga Alkmin^{1,2}, Nabil Chaia², Gilberto Carvalho Coelho², Renato Baldan³, Danieli Aparecida Pereira Reis⁴, Carlos Angelo Nunes²; ¹Centro Federal de Educação Tecnológica Celso Suckow da Fonseca, ²Universidade de São Paulo, ³Universidade Estadual Paulista Júlio de Mesquita Filho, ⁴Universidade Federal de São Paulo
- 18:00 Kraft Black Liquor: a sustainable waste on the production of porous carbon materials for electromagnetic shielding application** **P2.O.119**
Gisele Aparecida Amaral-Labat¹, Sandro Fonseca Quirino^{2,3}, Diego Edisson Florez Vergara², Maurício Ribeiro Baldan², Guilherme Frederico Bernardo Lenz e Silva¹; ¹Escola Politécnica de Universidade de São Paulo, ²Instituto Nacional de Pesquisas Espaciais, ³National Institute for Space Research
- 18:00 Sandwich Structure Damping System For Landing Gear Of Unmanned Aerial Vehicle - UAV** **P2.O.120**
Andre Tadao Siqueira Kobayashi¹, Franciele Renata Aparecida Morais¹, Max Colen Corrêa¹, Jorge Tadao Matsushima^{1,2}; ¹ETEP Faculdades, ²Faculdade de Tecnologia de São José dos Campos
- 18:00 Recycling of aeronautical fabrication residues based on composites thermosetting of carbon fibers reinforced epoxy matrix for applications in energy storage systems** **P2.O.121**
Maria Aparecida Miranda Souza¹, Aline Castilho Rodrigues², Mauricio Ribeiro Baldan², William Marcos Muniz Menezes³, Heide Heloíse Bernardi³, Rita de Cássia Sales³, Jorge Tadao Matsushima³; ¹Instituto de Aeronáutica e Espaço, ²Instituto Nacional de Pesquisas Espaciais, ³Faculdade de Tecnologia de São José dos Campos
- 18:00 Characterization and Thermodynamic Studies in Propellants doped with TiO₂ Nanoparticles for applications in Hybrid Propulsion** **P2.O.122**
Leonardo Marques Caldas¹, Pilar Hidalgo Falla¹, Jungpyo L Lee¹, Marcelo B Bento¹, Margeicy Luise Marinho de Sousa¹, Pedro Henrique de Sousa Santos¹, Gustavo Henrique Yabuki Dubas¹, João Henrique Delavechia Guimarães Silva¹, Marcos Breno da Silva Aguiar¹; ¹Universidade de Brasília

TUESDAY, SEPTEMBER 18

Oral presentations

* Invited Lecture

SESSION O. 01 (09:30 - 10:30) - Room Araucária

- 09:30 Challenges for applying metal additive manufacture to the aeronautic sector** **O.O1.1***
Daniel Fulvio Lopes Fonseca¹, Alejandro E. Villega¹, Joselito R. Henriques¹, Fernando C. Ferraz¹, Bruno Paulo Zluhan², Andre M. Zanatta², Luis Henrique da Silva Garcia³, Jeronimo Faria³, Anderson Vicente Borille³, Joakim Algardh⁴, Eva Lindh-Ulmgren⁴, Erik Lindgren⁴, Niklas k Eriksson⁵; ¹Akaer Engenharia, ²Instituto Senai de Inovação em Laser - Instituto Senai de Inovação em Sistemas de Manufatura, ³Instituto Tecnológico de Aeronáutica, ⁴Swerea KIMAB, ⁵SAAB AB
- 10:15 Analysis of filling and wettability of low melting alloys (Al-33Cu, Al-27Cu-5Si, Al-Cu-Mg, Al-Cu-Mg-Si, ZAMAC and 70Sn-30Pb) in pre-defined microcavities of Al-Cu 2024 aeronautical sheets** **O.O1.2**
Mauricio Mhirdauí Peres¹, Wanderson Santana da Silva², Jaciane Morais Carneiro¹, Juliano Augusto Medeiros¹, Rubens Maribondo do Nascimento¹, Augusto José de Almeida Buschinelli¹, Fabio Santos da Silva³, Fernando Ferreira Fernandez³; ¹Universidade Federal do Rio Grande do Norte, ²Federal University of Santa Catarina, ³Embraer

SESSION O. 02 (11:00 - 12:00) - Room Araucária

- 11:00 Microstructural characterization and mechanical properties of friction stir welded aluminum alloy AA6005(T6)** **O.O2.1**
Rodrigo José Contieri¹, Ricardo Floriano², Alessandra Cremasco², Mario Batalha³, Andre Carunchio³; ¹FACULDADE ESTADUAL DE CAMPINAS, ²Faculdade de Ciências Aplicadas, ³Instituto de Pesquisas Tecnológicas
- 11:15 Laser beam welding between niobium and titanium** **O.O2.2**
Rafael Humberto Mota de Siqueira¹, Sheila Medeiros de Carvalho¹, Milton Sergio Fernandes de Lima¹; ¹Instituto de Estudos Avançados
- 11:30 Effects of laser welding parameters on microstructure and mechanical properties of AA6013-T4 aluminum alloy** **O.O2.3**
Rodrigo Andrade Paes^{1,2}, Davi Neves¹, Renato Galvão da Silveira Mussi³, Rafael Humberto Mota de Siqueira¹, Milton Sergio Fernandes de Lima¹; ¹Instituto de Estudos Avançados, ²ETEP Faculdades, ³Faculdade de Tecnologia de São José dos Campos
- 11:45 Heat input analysis in high power Yb: fiber laser welding** **O.O2.4**
Bruno Nazário Coelho¹, Milton Sergio Fernandes de Lima², Adilson Rodrigues da Costa³; ¹Universidade Federal de São João Del Rei, ²Instituto de Estudos Avançados, ³Universidade Federal de Ouro Preto

Poster presentations

SESSION P3 (11:00 - 12:30)

- 11:00 Design and thermal analysis of a high vacuum furnace** P3.O.185
Osmar Roberto Bagnato^{1,2,3}, Stefanie Blanck², Eduardo Bauster Martins²; ¹Centro Universitário Franciscano do Paraná, ²Universidade São Francisco, ³Brazilian Synchrotron Light Laboratory
- 11:00 Plasma spray of alumina powder on stainless** P3.O.186
Roberson José da Silva¹, Homero Santiago Maciel¹, Gilberto Petraconi Filho¹; ¹Instituto Tecnológico de Aeronáutica
- 11:00 Development of a thermal spray system by using plasma torch of long arc** P3.O.187
Roberson José da Silva¹, Homero Santiago Maciel¹, Gilberto Petraconi Filho¹; ¹Instituto Tecnológico de Aeronáutica
- 11:00 Microstructural and Electrochemical Characterization of Friction Stir Welded Aluminum Alloys** P3.O.188
Marina Magnani¹, Haroldo Marques Gonçalves¹, Isolda Costa², Assis Vicente Benedetti¹, Cecílio Sadao Fugivara¹; ¹Instituto de Química de Araraquara, ²Instituto de Pesquisas Energéticas e Nucleares
- 11:00 CVD diamond coatings for enhancement of WC-Co tools performance in the machining of aerospace aluminum alloys** P3.O.189
José Vieira¹, Ariel Estole Nunes Andrade¹, Mariana Amorim Fraga², Vladimir Jesus Trava-Airoldi¹, Evaldo José Corat¹; ¹Instituto Nacional de Pesquisas Espaciais, ²Universidade Brasil
- 11:00 Polypropylene nanocomposites using zirconium phosphate modified with ether-amine: influence of lamellar filler and screw rotation speed** P3.O.190
Danielle Mattos Mariano¹, Luis Claudio Mendes¹, Daniela de França da Silva Freitas¹; ¹Universidade Federal do Rio de Janeiro
- 11:00 Influence of substrate roughness and coating thickness Vanadium carbide on HFCVD diamond film adhesion on AISI O1 steel substrate** P3.O.191
Silvia Alves Garcez¹, Rômulo Luís Fernandes Martins¹, Felipe Nascimento Araújo da Silva¹, Danilo Maciel Barquete¹, Vladimir Jesus Trava-Airoldi², Evaldo José Corat², Djoille Denner Damm³; ¹Universidade Estadual de Santa Cruz, ²Instituto Nacional de Pesquisas Espaciais, ³Universidade Federal de São Paulo
- 11:00 CVD diamond nanoparticles produced by laser ablation and high-energy ball milling for DLC films improvement** P3.O.192
Rebeca Falcão Correia^{1,2}, Cristiane da Costa Wachesk^{1,2}, Getulio Vasconcelos³, Evaldo José Corat², Vladimir Jesus Trava-Airoldi²; ¹Universidade Federal de São Paulo, ²National Institute for Space Research, ³Institute for Advanced Studies
- 11:00 Influência do tamanho de grão nas propriedades magnéticas dos aços maraging de 300 graus** P3.O.193
Dayane de Sousa Carvalho¹, Jorge Luiz Cardoso¹, Marcelo José Gomes da Silva¹, Sérgio Souto Maior Tavares²; ¹Universidade Federal do Ceará, ²Universidade Federal Fluminense
- 11:00 Study of the growth environment of single-crystal CVD diamond films by using MPACVD** P3.O.194
Javier Sierra Gomez¹, José Vieira¹, Evaldo José Corat¹, Vladimir Jesus Trava-Airoldi¹; ¹Instituto Nacional de Pesquisas Espaciais

- 11:00 Microstructural and Texture Characterization of 2024 Aluminum Sheet by Means of EBSD** P3.O.195
Heide Cirne de Medeiros¹, Mauricio Mhirdau Peres¹, Nicolau Apoena Castro¹; ¹Universidade Federal do Rio Grande do Norte
- 11:00 Metallographic and properties analysis of TRIP and stainless steel 304 laser welded sheets used in aeronautical industry** P3.O.196
 DANIELA BIANCHI PONCE LEON DE LIMA¹, Cauê Pettermann Carvalho², Rafael Humberto Mota de Siqueira², Milton Sergio Fernandes de Lima²; ¹Instituto Federal de São Paulo, ²Instituto de Estudos Avançados
- 11:00 Microstructural characterization and corrosion behavior of a commercial friction stir welded AA2024-T3** P3.O.197
Fernanda Martins Queiroz¹, João Victor Souza Araujo², Maysa Terada³, Sviatlana Lamaka⁴, Isolda Costa², Hercilio Gomes de Melo¹; ¹Escola Politécnica de Universidade de São Paulo, ²Instituto de Pesquisas Energéticas e Nucleares, ³Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais, Campinas, ⁴Helmholtz-Zentrum Berlin
- 11:00 Oxidation in synthetic air atmosphere of AISI 439 ferritic stainless steel in thermobalance at high temperatures** P3.O.198
Gabriel de Souza Veras Fontinele¹, Giscard Eanes Dias Viana², Maria de Fátima Salgado¹; ¹Universidade Estadual do Maranhão, ²Universidade Estadual do Piauí
- 11:00 Oxidation behavior, microstructural and mechanical characterizations of two Co-based superalloys** P3.O.199
Marcus Vinicius Salgado¹, Alex Matos da Silva Costa², Nabil Chaia^{3,1}, Carlos Angelo Nunes¹, Antonio J. Ramirez⁴; ¹Escola de Engenharia de Lorena, ²Laboratorio Nacional de Nanotecnologia, ³Universidade de São Paulo, ⁴Ohio State University
- 11:00 Analysis of weld parameters by friction rotary welding between the electrolyte copper and the CuCrZr alloy to guarantee electrical conductivity** P3.O.200
Wagner de Campos Sabor¹, Givanildo Alves dos Santos¹, Carlos Frajuca¹, Francisco Yastami Nakamoto¹; ¹Federal Institute of Education, Science and Technology of Sao Paulo

SESSION O. 03 (14:00 - 16:15) - Room Cedro 5

- 14:00 Sustainability of aerospace materials** O.03.1*
James D. Cotton¹, Niklas Hansson¹, Christin M Datz¹, Catherine J Parrish¹, Antonini Puppini-Macedo¹; ¹Boeing Research and Technology
- 14:45 Poly(ethylene-co-methacrylic acid) as healing agent for epoxy composites** O.03.2
 Isabel Mertel¹, Alexandra Pokhlestova¹, Frank Balle¹, Fernando Fernandes², Fabio Santos da Silva², Evans Paiva da Costa Ferreira³, Ana Paula Cysne Barbosa³, José Daniel Diniz Melo³; ¹University of Kaiserslautern, ²Embraer, ³Universidade Federal do Rio Grande do Norte
- 15:00 Effects of the addition of poly(ethylene-co-methacrylic acid) (EMAA) to carbon fiber /epoxy composites for self-healing purposes** O.03.3
Allana Azevedo Nascimento¹, Ana Paula Cysne Barbosa¹, José Daniel Diniz Melo¹, Fabio Santos da Silva², Fernando Ferreira Fernandez², Evans Paiva da Costa Ferreira¹; ¹Universidade Federal do Rio Grande do Norte, ²Embraer

- 15:15 Epoxy resin modified with thermoplastic ethylene terpolymer for self-healing composites.** **O.03.4**
Érick Stéfano Silveira Guerra¹, Ana Paula Cysne Barbosa¹, José Daniel Diniz Melo¹, Maria Carolina Burgos Costa¹, Evans Paiva da Costa Ferreira¹, Fernando Ferreira Fernandez², Fabio Santos da Silva²; ¹Universidade Federal do Rio Grande do Norte, ²Embraer
- 15:30 Nonisothermal Cold Crystallization of PLA/Babassu Compounds** **O.03.6**
 Ingridy Silva¹, Hannes Schäfer², Nichollas Guimarães Jaques³, Andreas Ries¹, Eduardo L Canedo³, Katharina Haag², Katharina Koschek⁴, Laura Hecker de Carvalho³, Renate Maria Ramos Wellen¹; ¹Universidade Federal da Paraíba, ²Fraunhofer, ³Universidade Federal de Campina Grande, ⁴Fraunhofer IFAM
- 15:45 Failure of CFRP laminates under cyclic load and hygrothermal aging** **O.03.7**
 Ana Paula Pereira Fulco¹, José Daniel Diniz Melo¹, Antonio Marcos de Medeiros¹, Sandro Campos Amico², Maikson Luiz Passaia Tonatto³, Ramesh Talreja⁴; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Federal do Rio Grande do Sul, ³Universidade Federal de São João Del Rei, ⁴Texas A&M University

WEDNESDAY, SEPTEMBER 19

Oral presentations

* Invited Lecture

SESSION O. 01 (09:30 - 10:30) - Room Jatobá

- 09:30 Maturation and Implementation of Titanium Wire Feed AM Technology** **O.01.1***
Arash Ghabchi¹; ¹Boeing Research and Technology
- 10:15 Debates on the current conventional materials and need new materials to improve performance in aerospace vehicles** **O.01.2**
AHMET HIKMET UCISIK¹; ¹ATILIM UNIVERSITY and TURKISH AEROSPACE INDUSTRIES

SESSION O. 02 (11:00 - 16:15) - Room Jatobá

- 11:00 Fracture behavior of woven carbon fabric laminates at high strain rates** **O.02.1**
Mauricio Vicente Donadon¹, Luiz Fernando Leite¹, Bruno Martins Leite¹, Nubia Nale da Silveira¹, Geraldo Maurício Cândido¹; ¹Instituto Tecnológico de Aeronáutica
- 11:15 Debonding of adhesive joints: current practice and future challenges** **O.02.2**
Mariana Doina Banea¹; ¹Centro Federal de Educação Tecnológica Celso Suckow da Fonseca
- 11:30 CNT-Epoxy/Carbon Fibers Hybrid Composites: Correlations between Mechanical Properties Degradation and Intense Heat Exposure** **O.02.3**
Augusto César Rabelo¹, Antonio Ferreira Ávila¹, Patricia Santiago de Oliveira Patricio²; ¹Universidade Federal de Minas Gerais, ²Centro Federal de Educação Tecnológica de Minas Gerais

SYMPOSIUM P - Wet-chemical preparation and applications of metal oxides

Symposium organizers:

Mary Cristina Ferreira Alves (UEPB)

Sayonara Andrade Eliziário (UFPB)

TUESDAY, SEPTEMBER 18

Oral presentations

* Invited Lecture

SESSION P. 03 (14:00 - 16:15) - Room Ipê

- 14:00 Layered oxides based on clay minerals: synthesis of hybrid materials and their applications for pollutants removal** P.O3.1*
Maria Gardennia Fonseca¹; ¹Universidade Federal da Paraíba
- 14:30 Comparative study of catalytic perovskites obtained by wet chemical methods for VOCs conversion** P.O3.2
Cássia Carla de Carvalho¹, Anderson Costa Marques¹, Mariza de Carvalho Montenegro Fernandes¹, Filipe Martel de Magalhães Borges¹, Juan Alberto Chavez Ruiz²; ¹Universidade Federal do Rio Grande do Norte, ²Centro de Tecnologias do Gás e Energias Renováveis
- 14:45 Oxides based on NiO-ZnO obtained by the polymer precursors method, aiming application in the production of biodiesel** P.O3.3
Iranilma Maciel Nascimento¹, Cleber da Silva Torres¹, Iêda Maria Garcia Santos², Alex de Meireles Neris², Danniely de Melo Ribeiro¹, Mary Cristina Ferreira Alves¹; ¹Universidade Estadual da Paraíba, ²Universidade Federal da Paraíba

Poster presentations

SESSION P4 (18:00 - 19:30)

- 18:00 Removal of golden yellow remazol dye using Zn₂SnO₄ photocatalysts** P4.P.121
Jacqueline Moraes da Costa¹, Laís Chantelle De Lima¹, Máximo Siu Li², Iêda Maria Garcia Santos¹, Márcia Rejane Santos da Silva¹, Ary da Silva Maia¹; ¹Universidade Federal da Paraíba, ²Instituto de Física de São Carlos
- 18:00 Photodegradation of different dyes using SrSnO₃ obtained by the Pechini Method** P4.P.122
Luzia Maria Castro Honório¹, Edson Cavalcanti da Silva Filho², Josy Antevéli Osajima², Ary da Silva Maia¹, Iêda Maria Garcia Santos¹; ¹Universidade Federal da Paraíba, ²Universidade Federal do Piauí
- 18:00 Nd-doped SrTiO₃ for heterogeneous photocatalysis applications** P4.P.123
Márcia Rejane Santos da Silva¹, André Luiz Menezes de Oliveira¹, Máximo Siu Li², Elson Longo³, Iêda Maria Garcia Santos¹; ¹Universidade Federal da Paraíba, ²Instituto de Física de São Carlos, ³Instituto de Química de Araraquara
- 18:00 Photocatalytic activity of NiWO₄ and ZnWO₄ particles towards Remazol dye degradation** P4.P.124
André Luiz Menezes de Oliveira¹, Márcia Rejane Santos da Silva¹, Laís Chantelle de Lima¹, Alex de Meireles Neris¹, Juliana Kelly Dionízio de Souza¹, Sayonara Andrade Eliziário¹, Iêda Maria Garcia Santos¹, Ary da Silva Maia¹; ¹Universidade Federal da Paraíba

- 18:00 Obtaining of SrMoO₄ microspheres: Adsorption capacity study** P4.P.125
Patrícia Alves de Abreu e Sousa¹, Heldeney Rodrigues de Sousa¹, Valdivânia Albuquerque do Nascimento¹, Marcel Leiner De Sá¹, Rogério Almiro Oliveira Silva¹, Yvo Borges da Silva¹, Millena de Cassia Sousa e Silva¹, Maria Rita de Moraes Chaves Santos¹; ¹Universidade Federal do Piauí
- 18:00 Vanadium Zeolites by wet chemical methods** P4.P.126
Marcelo Rodrigues do Nascimento¹, Iêda Maria Garcia Santos²; ¹Instituto Federal de Educação, Ciência e Tecnologia da Paraíba, ²Universidade Federal da Paraíba
- 18:00 Effect of pressure on the hydrothermal synthesis of BaTiO₃** P4.P.127
Armando Monte Mendes¹, Allene de Lourdes Souto de Moura¹, Joyce Cavalcante da Silva¹, Maria do Socorro Braga Fontes¹, Antonio Eduardo Martinelli¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Preliminary characterization of coir fibers modified with silver nanoparticles** P4.P.128
 Isabela Cristina Barros Pereira¹, Jéssica da Silva Chagas¹, Italo Rodolfo Sousa¹, Eliton S. Medeiros¹, Juliano Elvis Oliveira², Amélia Severino Ferreira e Santos¹; ¹Universidade Federal da Paraíba, ²Universidade Federal de Lavras
- 18:00 Synthesis, characterization and evaluation of the catalytic activity of hydroxyapatite systems modified with niobium.** P4.P.129
Adervando Sebastião Silva¹, Rafael Carvalho Araujo¹, Laís Chantelle de Lima¹, Juliana Kelly Dionízio de Souza¹, Iêda Maria Garcia Santos¹, Maria Gardennia Fonseca¹, Ary da Silva Maia¹; ¹Universidade Federal da Paraíba
- 18:00 Structural and morphological properties of CeO₂ nanoparticles synthesized by microwave-assisted hydrothermal method** P4.P.130
Rafael Aparecido Ciola Amoresi¹, Isabela Marcondelli Iani², Maria Aparecida Zaghete², Alexandre Z. Simões¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Instituto de Química de Araraquara
- 18:00 Synthesis, characterization and photocatalytic evaluation of lamellar perovskites KM₂Nb₃O₁₀ (M = Ca and Sr) in discoloration of azo dyes** P4.P.131
Rayssa Barbosa de Medeiros¹, Ary da Silva Maia¹, Iêda Maria Garcia Santos¹, Alexandra Maria Barbosa da Silva¹, Arnayra Sonayra Brito Silva Carreiro¹, Juliana Kelly Dionízio de Souza¹, Máximo Siu Li²; ¹Universidade Federal da Paraíba, ²Instituto de Física de São Carlos
- 18:00 Zeolite synthesis in basic media using expanded perlite and its application in Rhodamine B adsorption.** P4.P.132
 Severino Higino da Silva Filho¹, Paloma Vinaches Melguizo¹, Sibele Berenice Castellã Pergher¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Adsorption of tannic acid on α -Al₂O₃ and its effect on the suspension stability and particles dispersion** P4.P.133
Jaíne Webber¹, Robinson Carlos Dudley Cruz¹, Janete Eunice Zorzi¹; ¹Universidade de Caxias do Sul
- 18:00 Structural characterization of polycrystalline Zn_(x-1)Ni_xMn₂O₄ compounds** P4.P.134
 Wendell Cássio Batista Gomes¹, Allan Silva Azevedo¹, Alex Junior de Freitas Cabral¹; ¹Universidade Federal do Oeste do Pará
- 18:00 Thermodynamic of the Nanoparticle-Electrolyte Interface Charging in Magnetic Colloids** P4.P.135
Marcelo Rubens Braga Almeida¹, Alex Fabiano Cortez Campos¹; ¹Universidade de Brasília
- 18:00 New sol-gel synthesis of ZnO nanoparticles: morphological and optical properties** P4.P.136
Marianne Roque de Freitas¹, Ney Pereira Mattoso Filho¹; ¹Universidade Federal do Paraná

- 18:00 Influence of substitution of Calcium and Barium on perovskites compositions $RE_{(1-x)}M_xCoO_3$ (RE= Pr, Gd), (M =Ca, Ba) (x=0.2) at catalytic activity** P4.P.137
Alexandre de Sousa Campos¹, Cássia Carla de Carvalho¹, Indianara Alves Fernandes¹, Filipe Martel de Magalhães Borges¹, Juan Alberto Chavez Ruiz²; ¹Universidade Federal do Rio Grande do Norte, ²Centro de Tecnologias do Gás e Energias Renováveis
- 18:00 Iron oxide @ SiO₂ core-shell nanoparticles with tunable magnetic interaction** P4.P.138
Patricia Carolina Rivas Rojas¹, Pablo Tancredi², Oscar Moscoso-Londoño³, Leandro M. Socolovsky⁴; ¹Universidad de Buenos Aires, ²Consejo Nacional de Investigaciones Científicas y Técnicas, ³Universidad Autónoma de Manizales, ⁴Universidad Tecnológica Nacional Facultad Regional Santa Cruz - Consejo Nacional de Investigaciones Científicas y Tecnológicas
- 18:00 A comparison between solution techniques for the synthesis of YBCO superconducting ceramic** P4.P.139
Rafael Aparecido da Silva¹, Marcel Miyamura Bonilha¹, Dayse Iara dos Santos¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 18:00 Grain Boundary Engineering: Unveiling the Nature and Structure of the ZnO-Bi₂O₃ Grain boundaries** P4.P.140
Marcelo Antonio Donizetti Martinho¹, Gabriel Dornela Alves da Rocha¹, Marco Aurélio Liuthevicene Cordeiro¹, Edson Roberto Leite¹; ¹Universidade Federal de São Carlos
- 18:00 Pillared clays with Al/Zn and Al/Cu: synthesis and characterization** P4.P.141
Lamara Maciel dos Santos¹, Lindiane Bieseki¹, Sibele Berenice Castellã Pergher¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Influence of hydrothermal conditions on the growth of iron oxides with different crystal shapes** P4.P.142
Josiane Carneiro Souza¹, Mario Rodrigo dos Santos Soares^{1,2}, Júlio César Sczancoski¹, Edson Roberto Leite^{1,2}; ¹Universidade Federal de São Carlos, ²Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais, Campinas
- 18:00 Influence of SnO₂ thermal treatment time on photocatalytic performance** P4.P.143
Jéssica Luisa Alves do Nascimento¹, Fabiane da Silva Lima¹, Cleber da Silva Torres¹, Kleilton Oliveira Santos¹, Iêda Maria Garcia Santos², Mary Cristina Ferreira Alves¹, Danniely de Melo Ribeiro¹; ¹Universidade Estadual da Paraíba, ²Universidade Federal da Paraíba
- 18:00 Synthesis and characterization of oxides ZnO, Zn_{0,95}Ni_{0,05}O and Zn_{0,90}Ni_{0,10}O by the method of polymeric precursors** P4.P.144
Iranilma Maciel Nascimento¹, Cleber da Silva Torres¹, Iêda Maria Garcia Santos², Danniely de Melo Ribeiro¹, Mary Cristina Ferreira Alves¹; ¹Universidade Estadual da Paraíba, ²Universidade Federal da Paraíba
- 18:00 Adsorption of the Ponceau 4R dye by ferrofluids** P4.P.145
Samuel Veloso Carneiro¹, Victor Hugo Rodrigues de Queiroz¹, Allan Magalhães de Santana¹, Davino Machado Andrade Neto¹, Tiago Melo Freire¹, Pierre Basílio Almeida Fechine¹; ¹Universidade Federal do Ceará
- 18:00 Photoluminescence property of the MIn₂O₄ (M = Sr and Ca) microspheres obtained one-step by ultrasonic spray pyrolysis** P4.P.146
Anderson de Azevedo Gomes Santiago¹, Patrícia Neves de Medeiros², Erik Alexander Cunha Ferreira¹, Mauricio Bomio¹, Fabiana Villela Motta¹; ¹Universidade Federal do Rio Grande do Norte, ²Instituto Federal de Educação, Ciência e Tecnologia da Bahia
- 18:00 Synthesis and characterization of oxides based on ZnO-NiO impregnated in clay** P4.P.147
Juliana Felix dos Santos¹, Fabiane da Silva Lima¹, Iranilma Maciel Nascimento¹, Iêda Maria Garcia Santos², Danniely de Melo Ribeiro¹, Mary Cristina Ferreira Alves¹; ¹Universidade Estadual da Paraíba, ²Universidade Federal da Paraíba

- 18:00 The influence of the partially stabilized zirconium oxide addition on the fracture toughness in an alumina matrix composite** P4.P.148
Luan Mayk Torres Costa¹, Ella Raquel do Vale Souza¹, Raiza Freitas Oliveira¹, Rivaldo Lins Rocha Filho¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Synthesis and characterization of neodymium acetate for use in nanotechnology** P4.P.149
Carlos Alberto Da Silva Queiroz¹; ¹Instituto de Pesquisas Energéticas e Nucleares
- 18:00 TiO₂ nanoparticles supported on wrinkled particles of functionalized SiO₂ for phenol photodegradation** P4.P.150
Keyla M. Fuentes¹, Sara Aldabe Bilmes¹, María Claudia Marchi¹, Roberto Candal²; ¹Universidad de Buenos Aires, ²Universidad Nacional de San Martín Argentina
- 18:00 Synthesis, characterization and application of MoO₃/SnO₂ in the photocatalytic conversion of glucose** P4.P.151
Geovânia Cordeiro de Assis¹, Thatiane Veríssimo Dos Santos¹, Igor Matheus Amorim Silva¹, Mario Roberto Meneghetti¹, Simoni Margareti Plentz Meneghetti¹; ¹Universidade Federal de Alagoas
- 18:00 A closed-loop process for recycling spent LiCoO₂ batteries** P4.P.152
Caroline Santana dos Santos¹, Lucio César de Almeida¹, Jair Scarminio¹, Stephany Pires da Silva¹, Lucas Evangelista Sita¹, Paulo Rogério Catarini da Silva¹; ¹Universidade Estadual de Londrina
- 18:00 Structural and Magnetic Properties of Sm₂Mn_{1-x}Co_xO₆** P4.P.153
Suzana Araújo Barbosa¹, John Carlos Mantilla Ochoa², Emanoel Laurertan Tavares Emanoel Laurertan¹, Otávio José Bandeira Otavio¹, Fernando Luis de Araujo Machado¹; ¹Universidade Federal de Pernambuco, ²Universidade Federal do Rio Grande do Norte
- 18:00 Characterization of the photocatalytic activity of SrMoO₄ obtained by the ultrasonic spray pyrolysis method** P4.P.154
Élida Medeiros Macedo¹, Beatriz Susan de Moraes Batista¹, Anderson de Azevedo Gomes Santiago¹, Mauricio Bomio¹, Fabiana Villela Motta¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Synthesis of copper oxide II nanoparticles by coprecipitation method** P4.P.155
Catherine Lobato dos Santos¹, Tiago Marcolino de Souza¹, Sérgio Orlando de Souza Batista¹; ¹Universidade do Estado do Amapá
- 18:00 p-n Heterojunction study in NiO/K₄Nb₆O₁₇ systems.** P4.P.156
Alice Priscila Nunes Silva¹, Juliana Kelly Dionizio de Souza¹, Laís Chantelle de Lima¹, Sandro Marden Torres¹, Máximo Siu Li², Ieda Maria Garcia dos Santos¹, Ary da Silva Maia¹; ¹Universidade Federal da Paraíba, ²Instituto de Física de São Carlos
- 18:00 Influence of the substrate orientation on the structural, microstructural and photocatalytic properties of BaSnO₃ thin films** P4.P.157
Kleber Figueiredo Moura¹, Sophie Ollivier², Stéphanie Députier², Maryline Guilloux-Viry², Ronan Lebullenger², Valérie Bouquet², Iêda Maria Garcia Santos¹; ¹Universidade Federal da Paraíba, ²Université de Rennes 1
- 18:00 Phosphomolybdic acid entrapped in an ormosil network: electrochemical studies of a hybrid film toward nitrite** P4.P.158
Leonardo Aparecido Correia¹, Adriano L Souza¹; ¹Universidade Federal de São Carlos
- 18:00 Factorial design for optimization of the photocatalytic performance of SrZr_xSn_{1-x}O₃ for the removal of gold yellow remazol in water** P4.P.159
Priscilla Dantas Rocha¹, Yohanna Ribeiro Klafke¹, Emanuella Ribeiro Coutinho¹, Mary Cristina Ferreira Alves¹, Simone Silva Simões¹; ¹Universidade Estadual da Paraíba

- 18:00 Sonochemical synthesis of Bi₂O₃-ZnO-Nb₂O₅ ceramic powders** **P4.P.160**
Sergio Luiz Mineiro¹, Pedro José de Castro¹, Vanessa Ribeiro dos Santos²; ¹National Institute for Space Research, ²Universidade Federal de São Paulo

WEDNESDAY, SEPTEMBER 19

Oral presentations

* Invited Lecture

SESSION P. 01 (09:30 - 10:30) - Room Cedro 5

- 09:30 ASnO₃ perovskites: photocatalytic activity and an insight into the band structure** **P.O1.1***
Iêda Maria Garcia Santos^{1,2}; ¹Universidade Federal da Paraíba, ²University of Aberdeen, Aberdeen, Scotland, UK
- 10:00 Morphology influence on the photocatalytic efficiency of CeO₂ nanoparticles** **P.O1.2**
Vinicius Dantas de Araújo^{1,2}, Renata Arcelino da Silva^{1,2}, Mayara Suellen da Silva Nascimento^{1,2}, Fabiana Villela Motta³, Carlos Alberto Paskocimas³, Mauricio Bomio³; ¹Universidade Federal Rural de Pernambuco, ²Unidade Acadêmica do Cabo de Santo Agostinho, ³Universidade Federal do Rio Grande do Norte
- 10:15 Synthesis of Y (In, Mn) O₃ Blue Pigment by CPM Method** **P.O1.3**
Yara Feliciano Gomes¹, Mauricio Roberto Bomio Delmonte¹, Carlos Alberto Paskocimas¹, Fabiana Villela da Motta¹; ¹Universidade Federal do Rio Grande do Norte

Poster presentations

SESSION P5 (11:00 - 12:30)

- 11:00 Magnesium orthostannate and their application in the photodegradation of an organic pollutant** **P5.P.123**
Jacqueline Moraes da Costa¹, Laís Chantelle De Lima¹, Máximo Siu Li², Iêda Maria Garcia Santos¹, Márcia Rejane Santos da Silva¹, Ary da Silva Maia¹; ¹Universidade Federal da Paraíba, ²Instituto de Física de São Carlos
- 11:00 Heterojunctions TiO₂/SrTiO₃ Prepared by Core-Shell Route** **P5.P.124**
Rafael Aparecido Ciola Amoresi¹, Isabela Marcondelli Iani¹, Maria Aparecida Zaghete²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Instituto de Química de Araraquara
- 11:00 Structural and morphologic characteristics of Zn₂MO₄ (M=Sn and Ti) thin films synthesized by chemical solution deposition** **P5.P.125**
Márcia Rejane Santos da Silva¹, Laís Chantelle De Lima¹, André Luiz Menezes de Oliveira¹, Juliana Kelly Dionízio de Souza¹, Valérie Bouquet², Iêda Maria Garcia Santos¹; ¹Universidade Federal da Paraíba, ²Université de Rennes 1

- 11:00 SrSnO₃:Cu²⁺ /Sn_{1-x}Zr_xO₂: structural and photocatalytic properties** P5.P.126
Suelen Alves de Lima Silva¹, LAIS CHANTELLE DE LIMA¹, Luzia Maria Castro Honório¹, Ricardo Peixoto Suassuna Dutra¹, Danniely de Melo Ribeiro¹, Iêda Maria Garcia Santos¹; ¹Universidade Federal da Paraíba
- 11:00 Synthesis of γ -Al₂O₃ by Microwave-Assisted Combustion Using Low Fuel Content: Influence of Chitosan as an Additive** P5.P.127
Heloisa Pimenta Macedo¹, Rodolfo Luiz Medeiros¹, Ângelo Anderson Silva de Oliveira¹, Rebecca Araújo Barros do Nascimento¹, Francisco Marcelo Silva¹, Renata Martins Braga¹, Marcus Antônio Melo¹, Dulce Maria de Araújo Melo¹; ¹Universidade Federal do Rio Grande do Norte
- 11:00 Study of cobalt and tin oxides synthesis by polyol method** P5.P.128
Marcel Miyamura Bonilha¹, Dayse Iara dos Santos¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:00 A new non-metallic alkoxide route for high specific surface area TiO₂ aerogels** P5.P.129
 Joseane Caroline Bernardes¹, Daliana Muller¹, Geneviève Kreibich Pinheiro¹, Carlos Renato Rambo¹; ¹Universidade Federal de Santa Catarina
- 11:00 Superparamagnetic chitosan for removal of azo dyes from aqueous solutions.** P5.P.130
Tiago Melo Freire¹, Lillian Maria Uchôa Dutra Fchine¹, Danilo Caldas de Queiroz¹, Rafael Melo Freire², Nágila Maria Pontes Silva Ricardo¹, Juliano Denardin², Thainá Rodrigues¹, Diego Romão Gondim¹, Ivanildo Junior¹, Pierre Basílio Almeida Fchine¹; ¹Universidade Federal do Ceará, ²Universidad de Santiago de Chile
- 11:00 Mg₂TiO₄-Mg₂SnO₄ spinels for microbial anti-adhesion** P5.P.131
Laís Chantelle de Lima¹, André Luiz Menezes de Oliveira¹, Fabio Correia Sampaio¹, Márcia Rejane Santos da Silva¹, Iêda Maria Garcia Santos¹; ¹Universidade Federal da Paraíba
- 11:00 Influence of carboxymethylcellulose concentration on the size and antimicrobial activity of silver nanoparticles** P5.P.132
 Italo Rodolfo Sousa¹, Neymara Cavalcante Nepomuceno¹, Amélia Severino Ferreira e Santos¹, Eliton S. Medeiros¹, Fabio Correia Sampaio¹, Maurício Pinheiro de Oliveira^{2,3}, Juliano Elvis Oliveira⁴; ¹Universidade Federal da Paraíba, ²Universidade Federal de São Paulo, ³Departamento de Ciência de Tecnologia, ⁴Universidade Federal de Lavras
- 11:00 Influence of the synthesis method on the supercapacite properties of NiO** P5.P.133
THAYSE RICARDO SILVA¹, Vinicius Dias Silva¹, Luciena dos Santos Ferreira¹, Thiago Araujo Simoes¹, Daniel Araújo Macedo¹; ¹Universidade Federal da Paraíba
- 11:00 Pilarization of a Natural Clay from Paraíba: Study of the temperature during the formation of the pillarizing agent** P5.P.134
Anderson Parodia¹, Janaína Arlete Prasniski¹, Sibebe Berenice Castellã Pergher¹; ¹Universidade Federal do Rio Grande do Norte
- 11:00 Influence of alkaline earth metals (M= Ca²⁺ and Sr²⁺) in the MZrO₃ system on the photochemistry of the methylene blue** P5.P.135
Cynthia Ribeiro Guimarães¹, Fernanda Abrantes de Almeida¹, Diego Eduardo da Silva¹, Valderi Duarte Leite¹, Iêda Maria Garcia Santos², Danniely de Melo Ribeiro¹, Mary Cristina Ferreira Alves¹; ¹Universidade Estadual da Paraíba, ²Universidade Federal da Paraíba
- 11:00 Effect of lanthanoid contraction in the catalytic activity of perovskites: A_(1-x)Ca_xMnO₃ (A= La, Pr, Gd)(x=0.2)** P5.P.136
Anderson Costa Marques¹, Alexandre de Sousa Campos¹, Maxson Ramon dos Anjos Medeiros¹, Filipe Martel de Magalhães Borges¹, Juan Alberto Chavez Ruiz²; ¹Universidade Federal do Rio Grande do Norte, ²Centro de Tecnologias do Gás e Energias Renováveis

- 11:00 Optimized synthesis of surface-modified titanium dioxide nanoparticles by OPM route** P5.P.137
Estela Melaré Ribeiro Dos Santos^{1,2}, Patrícia Francatto², Francisco Nunes de Souza Neto³, Luiz Fernando Gorup², Elson Longo², Emerson Rodrigues Camargo²; ¹University of West Bohemia, ²Federal University of Sao Carlos, ³Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:00 Electrochemical reactivity of an hybrid film with silicotungstic acid toward nitrite** P5.P.138
Julia Helena De Paula¹, Adriano Lopes de Souza¹, Victória Oliveira Margarido¹, Kelly Roberta Francisco¹; ¹Universidade Federal de São Carlos
- 11:00 Study of the Synthesis and Self-assembly of Metal Oxide Nanocrystals** P5.P.139
Gabriel Dornela Alves da Rocha¹, Marcelo Antonio Donizetti Martinho¹, Marco Aurélio Liuthevicene Cordeiro¹, Edson Roberto Leite²; ¹Universidade Federal de São Carlos, ²Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais, Campinas
- 11:00 Influence of NiO crystallization temperature in the transesterification reaction for the obtainment of biodiesel** P5.P.140
Cleber da Silva Torres¹, Jéssica Luisa Alves do Nascimento¹, Iranilma Maciel Nascimento¹, Valderi Duarte Leite¹, Iêda Maria Garcia Santos², Danniely de Melo Ribeiro¹, Mary Cristina Ferreira Alves¹; ¹Universidade Estadual da Paraíba, ²Universidade Federal da Paraíba
- 11:00 Evaluation of the photocatalytic performance of SrSn_{1-x}Zr_xO₃ system in the discoloration of textile dyes** P5.P.141
Gislayne Sabrina de Lira Paes¹, Jéssica Luisa Alves do Nascimento¹, Cleber da Silva Torres¹, Cynthia Ribeiro Guimarães¹, Márcia Rejane Santos da Silva², Iêda Maria Garcia Santos², Mary Cristina Ferreira Alves¹; ¹Universidade Estadual da Paraíba, ²Universidade Federal da Paraíba
- 11:00 Influence of Fe as trivalent ion in the hydrotalcites on the molar ratio M²⁺/M³⁺ at study of Cr(VI) aqueous adsorption** P5.P.142
Maria Halfeld Halfeld Barros Duarte¹, Ricardo Queiroz Aucelio², Vitor Santos Ramos¹, Jhonny Huertas Flores¹; ¹Universidade do Estado do Rio de Janeiro, ²Pontifícia Universidade Católica do Rio de Janeiro
- 11:00 Characterization of the photoluminescent properties of AMoO₄ (A = Ba and Zn) synthesized by the ultrasonic pyrolysis spray method** P5.P.143
Anderson de Azevedo Gomes Santiago¹, Nivaldo Freire de Andrade Neto¹, Rubens Maribondo do Nascimento¹, Fabiana Villela Motta¹, Mauricio Bomio¹; ¹Universidade Federal do Rio Grande do Norte
- 11:00 Evaluation of the photocatalytic performance of calcium silicates obtained by polymeric precursor method** P5.P.144
Erica Silva dos Santos Alves¹, Fabiane da Silva Lima¹, Cynthia Ribeiro Guimarães¹, Iranilma Maciel Nascimento¹, Cleber da Silva Torres¹, Iêda Maria Garcia Santos², Márcia Rejane Santos da Silva², Mary Cristina Ferreira Alves¹; ¹Universidade Estadual da Paraíba, ²Universidade Federal da Paraíba
- 11:00 Rota de extração de lítio livre de calcinação com recuperação simultânea de peneira molecular do tipo LTA e estudo de DFT da estrutura** P5.P.145
Leonardo Leandro dos Santos¹, Sibele Berenice Castellã Pergher¹, Rubens Maribondo do Nascimento¹; ¹Universidade Federal do Rio Grande do Norte
- 11:00 Magnetite particles obtained by pulsed laser ablation in water incorporated in a porous material to methylene blue degradation** P5.P.146
Rafaela Carvalho de Andrade¹, Lukáš Vála², Tomáš Kreněk²; ¹Universidade Federal do Rio Grande do Sul, ²University of West Bohemia

- 11:00 Synthesis $\text{KCa}_2\text{Nb}_{3-x}\text{Ta}_x\text{O}_{10}$ with Dion-Jacobson phase and evaluation on discoloration of a dye azo** **P5.P.159**
Arnayra Sonayra De Brito Silva Carreiro¹, Laís Chantelle De Lima¹, Alice Priscila Nunes Da Silva¹, Juliana Kelly Dionízio de Souza¹, Máximo Siu Li², Iêda Maria Garcia Santos¹, Valérie Bouquet³, Ary da Silva Maia¹; ¹Universidade Federal da Paraíba, ²Instituto de Física de São Carlos, ³Université de Rennes 1
- 11:00 Synthesis and characterization of $\text{KSr}_2\text{Nb}_3\text{O}_{10}$ by the molten salt method and solid state reaction** **P5.P.160**
Alexandra Maria Barbosa da Silva¹, Rayssa Barbosa de Medeiros¹, Juliana Kelly Dionízio de Souza¹, Ary da Silva Maia¹, Iêda Maria Garcia Santos¹; ¹Universidade Federal da Paraíba
- 11:00 Ethylic transesterification of soybean oil with MoO_3 impregnated on clays for the production of biodiesel** **P5.P.161**
MARCOS ANTONIO GOMES PEQUENO¹, Herbet Bezerra Sales¹, JAKELINE DANIELA SOARES DA SILVA NASCIMENTO², Iêda Maria Garcia Santos¹; ¹Universidade Federal da Paraíba, ²BENTONISA S.A.
- 11:00 Influence of the surface modification in the photocatalytic properties of Sn^{4+} substituted Zn_2TiO_4** **P5.P.162**
Amanda Soares de Sousa¹, Jacqueline Moraes da Costa¹, Iêda Maria Garcia Santos¹, Márcia Rejane Santos da Silva¹; ¹Universidade Federal da Paraíba

SESSION P. 03 (14:00 - 16:15) - Room Cedro 5

- 14:00 Electrical, optical and electro-optical properties of heterojunction solar cells** **P.O3.1***
Joao Marcelo Ferreira¹; ¹Centre for Alternatives and Renewables Energies, Federal University of Paraíba
- 14:30 Synthesis and characterization of core-shell nanocomposite $\text{MnFe}_2\text{O}_4@\text{SiO}_2\text{-C18}$: stationary phase in capillary electrochromatography** **P.O3.2**
Natália Bruzamarello Caon Branco¹, Fabrício Luiz Faima², Ísis Oliveira Szlachetka³, Sebastião William da Silva³, Luciano Vitali¹, Alexandre Luis Parize¹; ¹Universidade Federal de Santa Catarina, ²Universidade Federal do Rio Grande do Sul, ³Universidade de Brasília
- 14:45 Synthesis and photocatalytic properties of $\text{BaSn}_{1-x}\text{Fe}_x(\text{O,N})_3$ thin films** **P.O3.3**
Kleber Figueiredo Moura¹, Sophie Ollivier², Stéphanie Députier², Maryline Guilloux-Viry², Ronan Lebullenger², Valérie Bouquet², Iêda Maria Garcia Santos¹; ¹Universidade Federal da Paraíba, ²Université de Rennes 1
- 15:00 Composition dependence of structural and photoluminescence properties in polycrystalline $\text{SrSn}_{1-x}\text{Ti}_x\text{O}_3$ particles** **P.O3.4**
André Luiz Menezes de Oliveira¹, Máximo Siu Li², Elson Longo³, Ary da Silva Maia¹, Iêda Maria Garcia Santos¹; ¹Universidade Federal da Paraíba, ²IFSC, USP, SAO PAULO, ³Instituto de Química de Araraquara
- 15:15 $(\text{Mg,Zn})_2\text{SnO}_4$ solid solution applied on photocatalytic degradation of an azo dye** **P.O3.5**
 Jacqueline Moraes da Costa¹, Laís Chantelle De Lima¹, Máximo Siu Li², Iêda Maria Garcia Santos¹, Márcia Rejane Santos da Silva¹, Ary da Silva Maia¹; ¹Universidade Federal da Paraíba, ²Instituto de Física de São Carlos
- 15:30 $\text{CaZr}_x\text{Sn}_{1-x}\text{O}_3$ applied in the photocatalytic of methylene blue** **P.O3.6**
Cynthia Ribeiro Guimarães¹, Fernanda Abrantes de Almeida¹, Laís Chantelle de Lima², Iêda Maria Garcia Santos², Danniely de Melo Ribeiro¹, Simone da Silva Simões¹, Mary Cristina Ferreira Alves¹; ¹Universidade Estadual da Paraíba, ²Universidade Federal da Paraíba

- 15:45 Synthesis of magnetic iron oxide nanoparticles for the removal of textile dye from wastewater through physical adsorption** P.O3.7
BÁRBARA SOUZA DAMASCENO¹, Anderson Felipe Viana da Silva¹, Ana Cláudia Vaz de Araújo¹; ¹Universidade Federal Rural de Pernambuco
- 16:00 Microstructural Evaluation of Magnetite Nanoparticles (Fe₃O₄) Synthesized by Different Routes** P.O3.8
Angela de Mello Ferreira¹, Luciana B. Salviano¹, Gabriela Cordeiro Silva¹; ¹Centro Federal de Educação Tecnológica de Minas Gerais

THURSDAY, SEPTEMBER 20

Oral presentations

* Invited Lecture

SESSION P. 01 (09:30 - 11:00) - Room Jatobá

- 09:30 Antimicrobial activity of silver nanoparticles and their application for caries arrestment** P.O1.1*
André Galembeck¹; ¹Universidade Federal de Pernambuco
- 10:00 The heterostructure, α -Ag₂WO₄/ZnO/Ag, as photocatalyst** P.O1.2
 NATALIA Jacomaci¹, Maria Aparecida Zaghete¹, Leining Antônio Perazolli¹, Euripedes Silva Junior¹, Fernando MODESTO OLIVEIRA BORGES¹, Guilhermina Ferreira Teixeira¹, Selma Antonio¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 10:15 Dopant Effects on the Visible-Light Photocatalytic Activity of SrTiO₃-based materials** P.O1.3
Sayonara Andrade Eliziário¹, Sergio Alves Azevedo², José Wellington Beserra da Costa¹, André Luiz Menezes de Oliveira¹, Marta Celia Dantas Silva¹; ¹Universidade Federal da Paraíba, ²Universidade Federal do Maranhão
- 10:30 Corrosion analysis of AISI 304 and 316L stainless steels in artificial sea water solution** P.O1.4
 Francisca Geidilany Saraiva de Olivera Frutuoso¹, Manoel Quirino Silva Júnior¹; ¹Universidade Federal Rural do Semi-Árido

SYMPOSIUM Q - 3D Printing applied to the development of advanced materials

Symposium organizers:

Rosane Michele Duarte Soares (UFRGS)
Guilherme Mariz de Oliveira Barra (UFSC)
Claudia Merlini (UFSC)
Marcos Akira d'Ávila (Unicamp)
Edvani Curti Muniz (UTFPR)

WEDNESDAY, SEPTEMBER 19

Poster presentations

SESSION P5 (11:00 - 12:30)

- 11:00 Modular system for 3D extrusion-based printing for gels and hydrogels** P5.Q.163
José Luis Dávila¹, Paulo Inforçatti Neto², Jorge Vicente Lopes da Silva², Marcos Akira d'Ávila¹; ¹Universidade Estadual de Campinas, ²Center for Information Technology Renato Archer
- 11:00 3D Extrusion-based printing of Laponite/Alginate-PAAM hydrogels 3D Extrusion-based printing of Laponite/Alginate-PAAM hydrogels** P5.Q.164
José Luis Dávila¹, Bruna Maria Manzini¹, Adriana da Silva Santos¹, Angela Cristina Malheiros Luzo¹, Marcos Akira d'Ávila¹; ¹Universidade Estadual de Campinas
- 11:00 Comparative study on mechanical properties of 3D printing polymers and common engineering plastics used in industry** P5.Q.165
Ramsés Otto Cunha Lima¹, Mayla Alencar Medeiros¹, Samuel de Oliveira Martins¹, Kalyude Diógenes de Sousa¹; ¹Universidade Federal Rural do Semi-Árido
- 11:00 Selective laser melting of Ti-Nb-Zr-Ta alloy: processing parameters optimization** P5.Q.166
Rodolfo L Batalha^{1,2}, Simon Pauly², Piter Gargarella¹, Claudio S. Kiminami¹; ¹Universidade Federal de São Carlos, ²Leibniz-Institut für Festkörper- und Werkstoffforschung Dresden
- 11:00 Mechanical properties of as built and heat treated AlSi10Mg specimens fabricated in different orientations using Direct Metal Laser Sintering (DMLS)** P5.Q.167
Luana Caldeira Araujo¹, Eder Socrates Najar Lopes¹; ¹Universidade Estadual de Campinas
- 11:00 Rheological behavior of Carboxymethyl-cellulose/cellulose-Nanocrystal hydrogels** P5.Q.168
Jéssica Heline Lopes Jéssica Heline Lopes¹, Marcos Akira d'Ávila¹; ¹Universidade Estadual de Campinas
- 11:00 Additive Manufacturing of PLA and Carbon Nanotubes Nanocomposite by FDM** P5.Q.169
Roberta de Farias¹, Enrico Fava¹, Daniela Zambelli Mezalira¹, Marcio Celso Fredel¹; ¹Universidade Federal de Santa Catarina
- 11:00 Potential of biobased and biodegradable Polyhydroxybutyrate as sinter powder in SLS process** P5.Q.170
Tobias Hartmann¹, Jennifer Paola Florez Cristancho²; ¹TU Chemnitz, ²Universidade Federal do Rio de Janeiro
- 11:00 3D printing of tough supramolecular hydrogel with a low-cost home-built printer** P5.Q.171
Thiago Nunes Viana¹, Silvia Lenyra Meirelles Campos Titotto¹, Mathilde Julienne Gisèle Champeau Ferreira¹; ¹Universidade Federal do ABC

THURSDAY, SEPTEMBER 20

Oral presentations

* Invited Lecture

SESSION Q. 01 (09:30 - 11:00) - Room Araucária

- 09:30 3D printing of hydrogels - rheological properties and processing parameters** **Q.O1.1***
Marcos Akira d'Ávila¹; ¹Universidade Estadual de Campinas
- 10:00 3D Printing by Focused Electron Beam Induced Deposition and Purification of Silver Nanostructures** **Q.O1.2**
Luisa Berger¹, Jakub Jurczyk¹, Katarzyna Madajska², Alfredo Rodrigues Vaz³, Katja Höflich⁴, Iwona Szymanska², Stanislav Moshkalev³, Ivo Utke¹; ¹Swiss Federal Institute for Materials Science and Technology, ²Nicolaus Copernicus University, ³Universidade Estadual de Campinas, ⁴Helmholtz-Zentrum Berlin
- 10:15 Mechanical Properties of 3D Printed Schwarzites** **Q.O1.3**
Vladimir Gaal¹, Cristiano Francisco Woellner¹, Tiago Botari¹, Eric Perim¹, Douglas Soares Galvão¹, VARLEI RODRIGUES^{2,1}; ¹Institute of Physics Gleb Wataghin, ²Universidade Estadual de Campinas
- 10:30 Study and development of a filament for 3d printing by recycled pet additivation** **Q.O1.4**
Fyllipe Felix Ferreira¹, Bruno Nazário Coelho², Adilson Rodrigues da Costa³; ¹Rede Temática em Engenharia de Materiais, ²Universidade Federal de São João Del Rei, ³Universidade Federal de Ouro Preto
- 10:45 Rheological studies on nanocrystalline cellulose/alginate hydrogels** **Q.O1.5**
Eronildo Alves Pinto Junior¹, José Luis Dávila¹, Marcos Akira d'Ávila¹; ¹Universidade Estadual de Campinas

SYMPOSIUM R - Computational Design for Development of Functional Materials - Synergy Between Theoreticians and Experimentalists

Symposium organizers:

Miguel A. San-Miguel (IQ/Unicamp)
Julio Ricardo Sambrano (UNESP)
Edison Zacarias da Silva (IFGW/Unicamp)
Elson Longo (UFSCar)

MONDAY, SEPTEMBER 17

Oral presentations

* Invited Lecture

SESSION R. 01 (09:30 - 10:30) - Room Jatobá

- 09:30 Origami/Kirigami during the Morphology Mapping of Synthetized (Nano)crystals** R.O1.1*
Juan Andrés¹; ¹Universitat Jaume I
- 10:00 Theoretical investigation of the electronic structure of p-BaTiO₃/n-ZnO heterojunction** R.O1.2
Sergio Ricardo de Lazaro¹, Luis Henrique da Silveira Lacerda¹; ¹Universidade Estadual de Ponta Grossa
- 10:15 Morphology Change of α -AgVO₃ and Influences on the Antibacterial Activity: A Theoretical and Experimental Insights** R.O1.2
Regiane Cristina Oliveira¹, Camila Cristina de Foggi¹, Mayara Mondego Teixeira¹, Juan Andrés², Lourdes Gracia³, Elson Longo¹; ¹Universidade Federal de São Carlos, ²Universitat Jaume I, ³Universidad de Valencia

SESSION R. 02 (11:00 - 12:00) - Room Jatobá

- 11:00 Theoretical evidence of magnetoelectric coupling in weak-ferromagnetic and double magnetic ABO₃ (A = Fe, Al, Bi, Pb; B = Fe, Al, V) R3c structures** R.O2.1
Luis Henrique da Silveira Lacerda¹, Sergio Ricardo de Lazaro¹; ¹Universidade Estadual de Ponta Grossa
- 11:15 Exploring Alloying Effects on Metal Linear Atomic Chains Supported on NiAl (110) Surface: A Computational DFT Study** R.O2.2
Bruno Fedosse Zornio¹, Edison Zacarias da Silva², Miguel A. San-Miguel¹; ¹Universidade Estadual de Campinas, ²Institute of Physics Gleb Wataghin
- 11:30 The Adsorption of CO, NO, and H₂ on PdAu Nanoclusters with 55 Atoms via Density Functional Theory** R.O2.3
Krys Elly de Araújo Batista¹, Juarez L. F. Da Silva², Maurício Jeomar Piotrowski¹; ¹Universidade Federal de Pelotas, ²Universidade de São Paulo
- 11:45 Combined experimental and ab-initio studies of local properties in Ca₃Mn₂O₇** R.O2.4
Pedro Rodrigues¹, Ivan de Paula Miranda², Samuel S. M. Santos², Armandina Lima Lopes¹, Lucy V. Credidio Assali², João Pedro Esteves Araujo¹, Helena Maria Petrilli²; ¹Universidade do Porto, ²Instituto de Física, Universidade de São Paulo

SESSION R. 03 (14:00 - 16:15) - Room Jatobá

- 14:00 Neutrons and Numbers: Studying materials and processes with VISION and VirtuES. Modeling INS data with DFT methods** R.O3.1*
Anibal (Timmy) Ramirez-Cuesta¹; ¹Oak Ridge National Laboratory

- 14:30 Coalescence processes in Ag nanoparticles: insights from molecular dynamics simulation.** **R.O3.2**
Giovani Manzeppi Faccin¹, Edison Zacarias da Silva², Miguel A. San-Miguel³; ¹Fundação Universidade Federal da Grande Dourados, ²Universidade Estadual de Campinas, ³Instituto de Química da Unicamp
- 14:45 Structural, dynamic and chemical disorder in GeSi alloys, investigated via Reverse Monte Carlo Analysis of temperature-dependent EXAFS spectra** **R.O3.3**
Gustavo de Medeiros Azevedo^{1,2,3}, Frederico Barros de Souza⁴, Santiago J. A. Figueroa^{2,3}, Antonio Augusto Malfatti Gasperini^{2,3}, Alexandre Magnus Gomes Carvvalho^{2,3}; ¹Universidade Federal do Rio Grande do Sul, ²Centro Nacional de Pesquisa em Energia e Materiais, ³Brazilian Synchrotron Light Laboratory, ⁴Universidade Federal de Minas Gerais
- 15:00 The Geochemistry of Natural Hydrogen Formation and Iron cycle** **R.O3.4**
Corinne Arrouvel¹, Alain Prinzhofer²; ¹Universidade Federal de São Carlos, ²GEO4U
- 15:15 Energy conversion: a theoretical and experimental approach.** **R.O3.5**
Mário Lúcio Moreira¹, Efracio Mamani Flores¹, Jesus Lucio Pauli Ururi¹, Maurício Jeomar Piotrowski¹, Pedro L. G. Jardim¹, Cristiane Raubach Ratmann¹, Sergio da Silva Cava¹; ¹Universidade Federal de Pelotas
- 15:30 Computational simulations of inorganic core@shell nanotubes** **R.O3.6**
Naiara Letícia Marana¹, Julio Ricardo Sambrano¹; ¹Faculdade de Ciências - UNESP - Campus de Bauru
- 15:45 Multiscale molecular simulations of cement** **R.O3.7**
Sylvia M Mutisya¹, James M. de Almeida², Caetano Rodrigues Miranda²; ¹Fundação Universidade Federal do Abc, ²Universidade de São Paulo

TUESDAY, SEPTEMBER 18

Oral presentations

* Invited Lecture

SESSION R. 02 (11:00 - 12:00) - Room Jatobá

- 11:00 Two-dimensional van der Waals p-n junction of InSe/phosphorene** **R.O2.1**
José Eduardo Padilha de Sousa¹, Roberto Hiroki Miwa², Antônio José Roque da Silva³, Adalberto Fazzio⁴, Renato Borges Pontes⁵; ¹Universidade Federal do Paraná, ²Universidade Federal de Uberlândia, ³Brazilian Synchrotron Light Laboratory, ⁴Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais, Campinas, ⁵Universidade Federal de Goiás
- 11:15 Structural descriptors for local disorder in metal oxides: correlations with electronic structure** **R.O2.2**
Anderson Reis Albuquerque^{1,2}, Julio Ricardo Sambrano³; ¹Universidade Federal do Rio Grande do Norte, ²Instituto Federal de Educação, Ciência e Tecnologia do Sertão Pernambucano, ³Universidade Estadual Paulista Júlio de Mesquita Filho

- 11:30 Two dimensional materials structurally similar to octa-graphene - a theoretical study** **R.O2.3**
 Guilherme da Silva Lopes Fabris¹, Ricardo Paupitz Barbosa dos Santos², Julio Ricardo Sambrano¹; ¹Faculdade de Ciências - UNESP - Campus de Bauru, ²Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:45 Tuning the Topological States in Metal-Organic Bilayers** **R.O2.4**
 Felipe David Lima¹, Gerson Junior Ferreira¹, Roberto Hiroki Miwa¹; ¹Universidade Federal de Uberlândia
- SESSION R. 03 (14:00 - 16:15) - Room Jatobá**
- 14:00 Molecular modeling application to intercalation of organics with pharmaceutical interest in phyllosilicates** **R.O3.1***
Ignacio SAINZ-DIAZ¹; ¹Instituto Andaluz de Ciencias de la Tierra (CSIC-UGR)
- 14:30 Energetic of water desanilation through sub-nanometer pores on graphene** **R.O3.2**
Walter Orellana¹; ¹Universidad Andrés Bello
- 14:45 Prediction of diamond nanothreads from polyaromatic molecules: an ab-initio/classical molecular dynamics study of structural and morphological properties** **R.O3.3**
Pedro G. Demingos¹, André R. Muniz¹; ¹Universidade Federal do Rio Grande do Sul
- 15:00 Diamond nanothreads: extending the concept to create novel 2-D and 3-D carbon nanostructures** **R.O3.4**
 Julian Vieira Silveira¹, André R. Muniz¹, Pedro G. Demingos¹; ¹Universidade Federal do Rio Grande do Sul
- 15:15 Prediction of strain-controlled adhesion in a single-layer Covalent Organic Framework** **R.O3.5**
 Martha Suarez Villagran¹, Tiago Botari², John Miller¹, Leonardo Dantas Machado³; ¹University of Houston, ²Universidade de São Paulo, ³Universidade Federal do Rio Grande do Norte
- 15:30 Thermal conductivity of GRAPHENE-hBN superlattice ribbons** **R.O3.6**
Isaac de Macêdo Félix¹, Luiz Felipe Cavalcanti Pereira¹; ¹Universidade Federal do Rio Grande do Norte
- 15:45 Confinement and hydrophilicity effects on geologically relevant fluids in silica nanopores** **R.O3.7**
James Moraes de Almeida¹, Caetano Rodrigues Miranda¹; ¹Universidade de São Paulo

WEDNESDAY, SEPTEMBER 19

Poster presentations

SESSION P5 (11:00 - 12:30)

- 11:00 Application of one-dimensional DICTRA simulations to study the formation of Solid lubricant in self lubricating composites.** **P5.R.172**
Guilherme Oliveira Neves¹, Nicolás Araya Rivera¹, André Vasconcellos Costa e Silva², Cristiano Binder¹, Aloisio Nelmo Klein¹; ¹Universidade Federal de Santa Catarina, ²Universidade Federal Fluminense

THURSDAY, SEPTEMBER 20

Poster presentations

SESSION P6 (09:30 - 11:00)

- 09:30 Theoretical Study of Hydrolysis of Esters with Copper (II) Catalysts** P6.R.86
Nelson Henrique Morgon¹, Iran Da Luz Sousa²; ¹Universidade Estadual de Campinas, ²Instituto de Química da Unicamp
- 09:30 ONIOM Calculations for the Dissociation of NO₂ and N₂O over Fe-ZSM-5.** P6.R.87
Nelson Henrique Morgon¹, Aguinaldo Robinson de Souza²; ¹Universidade Estadual de Campinas, ²Faculdade de Ciências - UNESP - Campus de Bauru
- 09:30 Bilayer graphenylenes and octafunctionalized-biphenylenes** P6.R.88
Chad Junkermeier¹, Ricardo Paupitz Barbosa dos Santos²; ¹University of Hawai`i Maui College, ²Universidade Estadual Paulista Júlio de Mesquita Filho
- 09:30 DFT study of porous single layers derived from inorganic monolayers** P6.R.89
Guilherme da Silva Lopes Fabris¹, Naiara Letícia Marana¹, Julio Ricardo Sambrano¹; ¹Faculdade de Ciências - UNESP - Campus de Bauru
- 09:30 Computational simulations of porous inorganic nanotubes** P6.R.90
Julio Ricardo Sambrano¹, Guilherme da Silva Lopes Fabris¹, Naiara Letícia Marana¹; ¹Faculdade de Ciências - UNESP - Campus de Bauru
- 09:30 Crystallization and crystal growth activation energies in silicate glasses** P6.R.91
Alisson Mendes Rodrigues¹, Edgar Dutra Zanotto¹; ¹Federal University of Sao Carlos
- 09:30 Topological semimetals in noncentrosymmetric isovalent candidates AX (A = Ta, Nb, Cr, Mo, W; X = As, P, C, Si, Ge, Sn, Pb)** P6.R.92
Felipe Gollino¹, CARLOS MERA¹, Alberico Borges Ferreira da Silva¹, Adalberto Fazzio²; ¹Universidade de São Paulo, ²Brazilian Nanotechnology National Laboratory
- 09:30 Topological semimetals in noncentrosymmetric isovalent candidates AX (A = Ta, Nb, Cr, Mo, W; X = As, P, C, Si, Ge, Sn, Pb)** P6.R.93
Felipe Gollino¹, CARLOS MERA¹, Alberico Borges Ferreira da Silva¹, Adalberto Fazzio²; ¹Universidade de São Paulo, ²Brazilian Nanotechnology National Laboratory
- 09:30 First-principles investigations of Graphene:hBN in-plane heterostructure hBN and co-doped graphene: energetic and electronic structure trends.** P6.R.94
Regiane do Nascimento¹, Ronaldo Junio Campos Batista², David Prendergast³, Hélio Chacham⁴; ¹Universidade Presbiteriana Mackenzie, ²Universidade Federal de Ouro Preto, ³Lawrence Berkeley National Laboratory, ⁴Universidade Federal de Minas Gerais
- 09:30 A molecular dynamics study of lithium-containing aprotic heterocyclic ionic liquid electrolytes** P6.R.95
Tuanan da Costa Lourenço¹, Yong Zhang², Luciano Tavares da Costa¹, Edward Joseph Maginn²; ¹Universidade Federal Fluminense, ²University of Notre Dame

- 09:30 Morphology and bactericide activity of $\text{Ag}_4\text{V}_2\text{O}_7$: A joint experimental and theoretical study** **P6.R.96**
Jose Ernane Cardoso Gomes¹, Regiane Cristina Oliveira¹, Mayara Mondego Teixeira¹, Erick Nishio², Gerson Nakazato², Juan Andrés³, Felipe de Almeida La Porta², Lourdes Gracia⁴, Elson Longo⁵; ¹Universidade Federal de São Carlos, ²Universidade Tecnológica Federal do Paraná, ³Universitat Jaume I, ⁴Universidad de Valencia, ⁵Federal University of Sao Carlos
- 09:30 Morphology control of α -Silver tungstate by a simple surfactant-assisted method.** **P6.R.97**
Nadia Guerra Macedo¹, Amanda Fernandes Gouveia¹, Román Alvarez Roca¹, Marcelo Assis¹, Lourdes Gracia², Juan Andres³, Edson Roberto Leite¹, Elson Longo¹; ¹Universidade Federal de São Carlos, ²Valencian International University, ³Universitat Jaume I
- 09:30 Silver thin film formation in Ag_3PO_4 semiconductor by electron beam irradiation** **P6.R.98**
João Paulo de Campos da Costa¹, Marcelo Assis², Camila Cristina Foggi², João Paulo Pereira Carmo¹, Elson Longo²; ¹Universidade de São Paulo, ²Universidade Federal de São Carlos
- 09:30 Structural, electronic and magnetism properties of ATiO_{3-x} (A = Mn, Fe, Ni): The role of oxygen vacancies** **P6.R.99**
Renan Augusto Ribeiro¹, Sergio Ricardo de Lazaro¹, Elson Longo², Juan Andrés³; ¹Universidade Estadual de Ponta Grossa, ²Universidade Federal de São Carlos, ³Universitat Jaume I
- 09:30 Electronic structure of Cu-intercalated TiSe_2 materials: A DFT study** **P6.R.100**
Renan Augusto Ribeiro¹, Sergio Ricardo de Lazaro¹, Ezequiel Costa Siqueira², Alcione Roberto Jurelo¹, João Frederico Hass Leandro Monteiro²; ¹Universidade Estadual de Ponta Grossa, ²Universidade Tecnológica Federal do Paraná
- 09:30 Theoretical investigation of structural effects on Ag_2CrO_4 surfaces by electron beam irradiation** **P6.R.101**
Carlos Eduardo Silva¹, Juan Andrés², Elson Longo³, Edison Zacarias da Silva¹, Miguel A. San-Miguel¹; ¹Universidade Estadual de Campinas, ²Universitat Jaume I, ³Universidade Federal de São Carlos
- 09:30 Multiferroic materials as photocatalytic agents in water split and organic degradation: a DFT study** **P6.R.102**
Luis Henrique da Silveira Lacerda¹, Sergio Ricardo de Lazaro¹; ¹Universidade Estadual de Ponta Grossa
- 09:30 Theoretical study of the bulk of BaSnO_3 under high pressures** **P6.R.103**
Thiago Marinho Duarte¹, Iêda Maria Garcia Santos¹, Elson Longo², Juan Andrés³, Armando Beltrán³, Anderson Reis Albuquerque⁴, Julio Ricardo Sambrano^{2,5}; ¹Universidade Federal da Paraíba, ²Universidade Estadual Paulista Júlio de Mesquita Filho, ³Universitat Jaume I, ⁴Universidade Federal do Rio Grande do Norte, ⁵Faculdade de Ciências - UNESP - Campus de Bauru
- 09:30 First-Principles Investigation of the Geometry, Electronic Structure and Morphology of Crystals $\text{BaW}_{1-x}\text{Mo}_x\text{O}_4$ (x=0, 0.5, 1) prepared by Co-Precipitation Methods** **P6.R.104**
Marisa Carvalho Oliveira¹, Lourdes Gracia², Içamira Costa Nogueira³, Juan Andrés⁴, Elson Longo¹; ¹Universidade Federal de São Carlos, ²Universitat de València, ³Universidade Federal do Amazonas, ⁴Universitat Jaume I
- 09:30 Ab initio study of MS_2 pyrite group: scientific and industrial interests** **P6.R.105**
Corinne Arrouvel¹; ¹Universidade Federal de São Carlos

- 09:30 Structural, photoluminescent, and transport properties of the $\text{Ca}_{10}\text{V}_6\text{O}_{25}$ superstructure** P6.R.106
Mayara Mondego Teixeira¹, Regiane Cristina Oliveira¹, Ivo Mateus Pinatti¹, Máximo Siu Li², Adenilson José Chiquito¹, Elson Longo¹; ¹Universidade Federal de São Carlos, ²IFSC, USP, SAO PAULO
- 09:30 Theoretical Studies on Diffusion of Silver Atoms in Metal Oxides Induced by in Situ Electron Beam Irradiation** P6.R.107
André Rodrigues Pinheiro¹, Juan Andres², Elson Longo³, Edison Zacarias da Silva¹, Miguel A. San-Miguel⁴; ¹Universidade Estadual de Campinas, ²Universitat Jaume I, ³Federal University of Sao Carlos, ⁴Instituto de Química da Unicamp
- 09:30 Synthesis and Characterization of the $\beta\text{-Ag}_2\text{MoO}_4\text{-AgBr-Ag}$ Heterostructure by Coprecipitation Method** P6.R.108
Lílian Cruz Santos¹, Regiane Cristina Oliveira¹, Mayara Mondego Teixeira¹, Leticia O. Laier², Elson Longo¹; ¹Universidade Federal de São Carlos, ²Universidade Estadual Paulista Júlio de Mesquita Filho
- 09:30 Photocatalytic property study of the heterostructure $\text{Ag}_2\text{CrO}_4/\text{Ag}_2\text{WO}_4$ obtained hair Hydrothermal assisted microwaves method** P6.R.109
Leticia O. Laier¹, Regiane Cristina Oliveira², Lílian Cruz Santos², Elson Longo²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade Federal de São Carlos
- 09:30 Using adsorbed molecules to modify the electronic structure of Graphenylene and Porous Graphene** P6.R.110
Gustavo Guarise Pereira¹, Ricardo Paupitz¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 09:30 On the description of the microdomains within carbon fibers precursory mesophase pitch** P6.R.111
Caio César Ferreira Florindo¹, Christina Papenfuss², Adalberto Bono Maurizio Sacchi Bassi¹; ¹Universidade Estadual de Campinas, ²Hochschule für Technik und Wirtschaft Berlin
- 09:30 Numerical simulation of an autogenous TIG welding process on a stainless steel AISI 304l plate to obtain the temperature field.** P6.R.112
Caio Nepomuceno Santos¹, Daut de Jesus Nogueira Peixoto Couras¹; ¹Universidade Federal Rural do Semi-Árido
- 09:30 Computational procedure to an accurate DFT simulation to solid state systems: Structural, electronic mechanic and vibrational properties of BaMoO_4** P6.R.113
Eduardo de Oliveira Gomes¹, Mateus Ferrer², Guilherme da Silva Lopes Fabris², Julio Ricardo Sambrano³, Fabiana Villela da Motta¹, Mauricio Bomio¹; ¹Universidade Federal do Rio Grande do Norte, ²Faculdade de Ciências - UNESP - Campus de Bauru, ³Universidade Estadual Paulista Júlio de Mesquita Filho
- 09:30 Chemical bond overlap properties in trans-1,2-disubstituted alkenes** P6.R.114
RAFAEL ALEXANDRE OLIVEIRA¹, Renaldo Tenório de Moura Júnior¹, Andressa Dantas Delfino¹; ¹Universidade Federal da Paraíba
- 09:30 Molecular Modelling of Polyol Electro-Oxidation Reaction on Pt Surfaces** P6.R.115
Gabriela Volpini Soffiati¹, Edison Zacarias da Silva², Miguel A. San-Miguel¹; ¹Universidade Estadual de Campinas, ²Institute of Physics Gleb Wataghin
- 09:30 Theoretical description of molecular adsorption on transition metal atomic chains supported on NiAl (110)** P6.R.116
Bruno Fedosse Zornio¹, Edison Zacarias da Silva², Miguel A. San-Miguel¹; ¹Instituto de Química da UNICAMP, ²Instituto de Física Gle Wataghin UNICAMP

- 09:30 3D Nanotubes Network Synthetized Inside Beta Zeolites Templates: A Molecular Dynamics Investigation** P6.R.117
Eliezer Fernando de Oliveira¹, Leonardo Dantas Machado², Douglas Soares Galvão¹; ¹Universidade Estadual de Campinas, ²Universidade Federal do Rio Grande do Norte
- 09:30 Mechanical Properties of Single-ringed Novamene: A Molecular Dynamics Investigation** P6.R.118
Eliezer Fernando de Oliveira¹, Pedro Alves da Silva Autreto², Cristiano Francisco Woellner¹, Douglas Soares Galvão¹; ¹Universidade Estadual de Campinas, ²Universidade Federal do ABC
- 09:30 Topologically protected states in bismuthene functionalized with hydrogen molecules** P6.R.119
ERIKA NASCIMENTO LIMA¹, Renato Borges Pontes², Tome Mauro Schmidt³, Thomas Frauenheim⁴, Andreia Luisa da Rosa²; ¹Universidade Federal de Mato Grosso, ²Universidade Federal de Goiás, ³Universidade Federal de Uberlândia, ⁴Bremen Center for Computational Materials Science
- 09:30 Design of Tb³⁺ complex with improved quantum yield due ligand structure and chirality** P6.R.120
 Thaiane Gregorio¹, Joyce De Mattos Leão², Paula C. Rodrigues², Siddharttha Om Kumar Giese¹, Emilson Ribeiro Viana Junior², Andréia Gerniski Macedo², Luis Dias Carlos³, Rute A.S. Ferreira³, Eduardo Lemos de Sá¹, Giovana Gioppo Nunes¹, Jaisa Fernades Soares¹; ¹Universidade Federal do Paraná, ²Universidade Tecnológica Federal do Paraná, ³University of Aveiro
- 09:30 Photocatalytic activity mediated by oxygen vacancies in bismuth oxyhalides surfaces upon electron beam irradiation** P6.R.121
Felipe Lipsky Gonzalez¹, Juan Andres², Elson Longo³, Edison Zacarias da Silva¹, Miguel A. San-Miguel⁴; ¹Universidade Estadual de Campinas, ²Universitat Jaume I, ³Universidade Federal de São Carlos, ⁴Instituto de Química da Unicamp
- 09:30 A DFT study of the relationship between thickness and piezoelectricity of GaN and AlN zigzag nanotubes** P6.R.122
Giovanne Bruno Mantovani Pinhal¹, Naiara Letícia Marana¹, Julio Ricardo Sambrano¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 09:30 Transformations of crystalline planes of Boron Nitride in nanostructures using computational simulation** P6.R.123
Jeziel Santos¹, José Divino dos Santos¹; ¹Universidade Estadual de Goiás
- 09:30 Revealing the retrodonation effect by the chemical bond overlap model in organometallic systems** P6.R.124
Carlos Vital dos Santos Júnior¹, Renaldo Tenório de Moura Júnior¹, Albano Neto Carneiro Neto²; ¹Universidade Federal da Paraíba, ²Universidade Federal de Pernambuco
- 09:30 Computational improvements in the parallelism of the chemical bonds analysis BOPP software** P6.R.125
Carlos Vital dos Santos Júnior¹, Renaldo Tenório de Moura Júnior¹, Albano Neto Carneiro Neto²; ¹Universidade Federal da Paraíba, ²Universidade Federal de Pernambuco
- 09:30 Behavior of the Ferroelectric Response in (Pb, Ca)TiO₃ Family Thin Films via Piezoresponse Microscopy** P6.R.126
Wagner Benicio Bastos¹, Felon Martinho Pontes², Elson Longo¹; ¹Universidade Federal de São Carlos, ²Universidade Estadual Paulista Júlio de Mesquita Filho

- 09:30 Influence of Zn solid solution on β -Ag₂MoO₄ on its structural, morphological, optical and photocatalytic activity** P6.R.127
Vinicius Teodoro da Silva¹, Mayara Mondego Teixeira¹, Marcelo Assis¹, Amanda Fernandes Gouveia¹, Aline Barrios Trench¹, Thales Rafael Machado¹, Marcio Daldin Teodoro¹, Elson Longo¹; ¹Universidade Federal de São Carlos
- 09:30 Theoretical study of doped fullerene for transport and detection of carbamazepine** P6.R.128
Rodrigo Aparecido Lemos Silva¹, Daniel Francisco Scalabrini Machado¹, Demetrio A da Silva Filho¹, Heibbe Cristhian Benedito de Oliveira¹, Luciano Ribeiro²; ¹Universidade de Brasília, ²Universidade Estadual de Goiás
- 09:30 Theoretical investigation of graphene-like nanostructures for application in lithium ion batteries** P6.R.129
Bruno Bueno Ipaves Nascimento¹, Joao Francisco Justo Filho², Lucy V. Credidio Assali¹; ¹Instituto de Física, Universidade de São Paulo, ²Escola Politécnica de Universidade de São Paulo
- 09:30 An Open-Source IDE for PCA calculations via Python: A Good Experience with Specter Analysis** P6.R.130
Filipe Leoncio Braga¹, Soraia Cristina Gonzaga Neves Braga², Emmanuela Sternberg¹, Luiz Frassi¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo, ²Instituto Federal de Educação, Ciências e Tecnologia do Espírito Santo
- 09:30 A Hybrid Model of Aurora Borealis Spectrum Reconstruction: Molecular Dynamics and Monte Carlo Simulations** P6.R.131
Filipe Leoncio Braga¹, Emmanuela Sternberg¹, Soraia Cristina Gonzaga Neves Braga², Gabriel Monteiro²; ¹Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo, ²Instituto Federal de Educação, Ciências e Tecnologia do Espírito Santo
- 09:30 Formation of In Nanoparticles: A Theoretical and Experimental Study** P6.R.132
Marcelo Assis¹, Nadia Guerra Macedo¹, Thales Rafael Machado¹, Mateus Meneghetti Ferrer², Amanda Fernandes Gouveia¹, Eloísa Cordoncillo Cordoncillo³, Héctor Beltrán Mir³, Gladys Mínguez-Vega³, Edson Roberto Leite⁴, Julio Ricardo Sambrano², Rafael Torres-Mendieta³, Juan Andrés³, Elson Longo¹; ¹Universidade Federal de São Carlos, ²Universidade Estadual Paulista Júlio de Mesquita Filho, ³Universitat Jaume I, ⁴Centro Nacional de Pesquisa em Energia e Materiais
- 09:30 Femtosecond laser induced growth of Silver and Bismuth nanoparticles** P6.R.133
Thales Rafael Machado¹, Nadia Guerra Macedo¹, Marcelo Assis¹, Carlos Donãte Buendia², Gladys Mínguez-Vega², Mayara Mondego Teixeira¹, Camila Cristina de Foggi¹, Carlos Vergani³, Héctor Beltrán Mir², Juan Andrés², Eloísa Cordoncillo Cordoncillo², Elson Longo¹; ¹Universidade Federal de São Carlos, ²Universitat Jaume I, ³Universidade Estadual Paulista Júlio de Mesquita Filho
- 09:30 Synthesis and Characterization of Nanometer ZnFe₂O₄ by Microwave Assisted Method** P6.R.134
Guilherme Henrique Cruvinel¹, Regiane Cristina Oliveira¹, Mayara Mondego Teixeira¹, Lílian Cruz Santos¹, Elson Longo²; ¹Universidade Federal de São Carlos, ²Instituto de Química de Araraquara
- 09:30 Multiscale computational insight into ZnO nanoparticle synthesis by glycerol-urea route** P6.R.135
Elton José Figueiredo de Carvalho¹, Antônio Manesco², Eduardo Rezende Triboni²; ¹Universidade Federal do Rio Grande do Norte, ²Universidade de São Paulo
- 09:30 Anatase TiO₂ nanotube doped with Ag: a computational simulation** P6.R.136
Richard Castro Júnior¹, Naiara Letícia Marana¹, Julio Ricardo Sambrano¹; ¹Faculdade de Ciências - UNESP - Campus de Bauru

- 09:30 Catalytic activity analysis of PtNi alloys supported on anatase and rutile for the water gas shift reaction employing ab initio methods** P6.R.137
Manoel Victor Frutuoso Barrionuevo¹, Miguel A. San-Miguel¹; ¹Instituto de Química da Unicamp
- 09:30 Chemical Bond Overlap Properties in X₃B–NH₃ (X=F, Cl, Br) Lewis Adducts** P6.R.138
Ewerton Matias Lima¹, Renaldo Moura Júnior¹; ¹Universidade Federal da Paraíba
- 09:30 Theoretical investigation of photocatalytic properties of NiBO₃ multiferroic materials: photocatalytic agents in water split and organic degradation** P6.R.139
Leonardo Konopaski Andreani¹, Luis Henrique da Silveira Lacerda¹, Sergio Ricardo de Lazaro¹; ¹Universidade Estadual de Ponta Grossa
- 09:30 Surfactant-Mediated Morphology and Photocatalytic Activity of Ag₃PO₄** P6.R.140
Beatriz De Goes Foschiani¹, Marcelo Assis¹, Elson Longo¹; ¹Universidade Federal de São Carlos
- 09:30 Morphological control of silver chromate by complexation with ammonia** P6.R.141
Priscila Fernanda Caperucci¹, Marcelo Assis¹, Camila Cristina de Foggi¹, Elson Longo¹; ¹Universidade Federal de São Carlos
- 09:30 A computational study about the lability of H₂O molecules in complexes with lanthanide ions and EDTA ligand.** P6.R.142
Sarah Emanuelle Pereira da Silva¹, Juliana Angeiras Batista da Silva¹, Ricardo Luiz Longo¹; ¹Universidade Federal de Pernambuco
- 09:30 Cubic Barium Titanate: theoretical investigation of structures, electronic and elastic properties by a DFT/B3LYP methodology** P6.R.143
Eduardo Felipe Neves¹, Luis Henrique da Silveira Lacerda¹, Sergio Ricardo de Lazaro¹; ¹Universidade Estadual de Ponta Grossa
- 09:30 DFT/B3LYP investigation of cubic, tetragonal, orthorhombic and rhombohedral structures of BaTiO₃ material: structural, electronic and ferroelectric properties.** P6.R.144
Eduardo Felipe Neves¹, Luis Henrique da Silveira Lacerda¹, Sergio Ricardo de Lazaro¹; ¹Universidade Estadual de Ponta Grossa
- 09:30 Study of stability and reactivity of doped silicon clusters** P6.R.145
Gabriel Freire Sanzovo Fernandes¹, Luiz Fernando de Araujo Ferrão¹, Francisco Bolivar Correto Machado¹; ¹Instituto Tecnológico de Aeronáutica
- 09:30 Coupling Finite Element Analysis and Carbon Nanotubes Experiments: A Synergy Applied to Auto-Industry Innovative Design** P6.R.146
Marcella Cristina Neves Alvarenga¹, Elvis Carneiro Monteiro¹, Antonio Ferreira Ávila¹; ¹Universidade Federal de Minas Gerais
- 09:30 Microwave-hydrothermal synthesis of CuGeO₃ nanoparticles: Structural, electronic and optical properties** P6.R.147
Natália Herédia de Paula¹, Victor Yuudi Suzuki¹, Máximo Siu Li², Elson Longo³, Miguel A. San-Miguel⁴, Douglas Henrique Pereira⁴, Luis Henrique Cardozo Amorin¹, Felipe de Almeida La Porta¹; ¹Universidade Tecnológica Federal do Paraná, ²Universidade de São Paulo, ³Universidade Federal de São Carlos, ⁴Instituto de Química da Unicamp
- 09:30 Structural, optical and photocatalytic properties of Ag₂WO₄/Ag₂MoO₄ nanoparticles by Microwave-hydrothermal synthesis** P6.R.148
Luis Henrique Cardozo Amorin¹, Natália Herédia de Paula¹, Jussara Rodrigues Fratelli¹, Victor Yuudi Suzuki¹, Felipe de Almeida La Porta¹; ¹Universidade Tecnológica Federal do Paraná
- 09:30 Thermodynamic reassessment of the Ni–In system using ab-initio data forend-member compound energies** P6.R.149
Thiago Trevizam Dorini¹, Luiz Tadeu Fernandes Eleno¹; ¹Universidade de São Paulo

- 09:30 Intra-octahedral distortion on lamellar potassium niobates** **P6.R.150**
 Juliana Kelly Dionízio de Souza¹, Thiago Marinho Duarte¹, Iêda Maria Garcia Santos¹,
 Julio Ricardo Sambrano², Ary da Silva Maia¹, Anderson Reis
Albuquerque^{3,4}; ¹Universidade Federal da Paraíba, ²Universidade Estadual Paulista Júlio
 de Mesquita Filho, ³Universidade Federal do Rio Grande do Norte, ⁴Instituto Federal de
 Educação, Ciência e Tecnologia do Sertão Pernambucano
- 09:30 Plant cutin inspired polymers: mixing and segregation processes, an approach** **P6.R.151**
based on molecular modeling
Otto Mao Vargas M. Bueno¹, Jose Alejandro Heredia-Guerrero², José Jesús Benítez²,
 Miguel A. San-Miguel¹; ¹Instituto de Química da Unicamp, ²Instituto de Ciencias de
 Materiales de Sevilla
- 09:30 Synthesis and characterization of bimetallic nanoparticles: A theoretical and** **P6.R.152**
experimental study
Rafael Melo Freire¹, Javier Rojas¹, Loreto Troncoso Aguilera², Juliano Casagrande
 Denardin³, Samuel Baltazar Rojas¹; ¹Universidad de Santiago de Chile, ²Universidad
 Austral de Chile, ³Universidade Federal de Santa Maria
- 09:30 Measurement and modeling building heat transfer.** **P6.R.153**
Maria Alessandra Bacaro Boscoli¹, Fernando Sergio Okimoto², Saulo Güths³, Renivaldo
 José dos Santos¹, Aldo Eloizo Job²; ¹Universidade Estadual Paulista Júlio de Mesquita
 Filho, ²FCT-UNESP Campus de Presidente Prudente, ³Federal University of Santa
 Catarina
- 09:30 Magnetic configurations and switching processes in cobalt ferromagnetic hollow** **P6.R.154**
nanospheres
 Yuset Guerra Dávila¹, Ramón Raudel Peña Garcia¹, JEAN FELIPE OLIVEIRA DA
SILVA¹, Filipe Rogerio de Souza Quirino¹, Eduardo Padrón Hernández¹; ¹Universidade
 Federal de Pernambuco
- 09:30 The angular dependence of coercivity in real cobalt nanowires** **P6.R.155**
 Yuset Guerra Dávila¹, Ramón Raudel Peña Garcia¹, Carlos José Sabino Machado Filho¹,
 Eduardo Padrón Hernández¹; ¹Universidade Federal de Pernambuco
- 09:30 Magnetic Properties of Fe₃O₄ antidots arrays synthesized by atomic layer** **P6.R.156**
deposition and focused ion beam lithography
Fabian Alberto Vega¹, Juan Luis Palma², Juan Escrig¹, Alejandro Pereira Abarca³,
 Raquel Alvaro⁴, Jose Miguel Garcia⁴; ¹Universidad de Santiago de Chile, ²Universidad
 Central de Chile, ³Center for the Development of Nanoscience and
 Nanotechnology, ⁴Instituto de Microelectronica de Madrid

SYMPOSIUM S - Nanofibers, Applications and Related Technology

Symposium organizers:

Annelise Kopp Alves (UFRGS)
Cicero Rafael Cena da Silva (UFMS)
Claudia Merlini (UFSC)
Deuber Lincon da Silva Agostini (UNESP)

TUESDAY, SEPTEMBER 18

Oral presentations

* Invited Lecture

SESSION S. 01 (09:30 - 10:30) - Room Flamboyant 2

- 09:30 Electrospun Nanofiber Structures for Functional Applications** **S.O1.1***
Abdellah Ajjji¹; ¹École Polytechnique de Montreal
- 10:00 1 D to 3 D hierarchical nanofibrous functional materials from biopolymers** **S.O1.2***
You-Lo Hsieh¹; ¹University of California Davis

Poster presentations

SESSION P4 (18:00 - 19:30)

- 18:00 Fluorescent core-shell nanofibers produced with solution blow spinning** **P4.S.161**
Rafaella Takehara Paschoalin¹, Raja Sebastian², Vanessa Priscila Scagion^{3,2}, Luiz Henrique Capparelli Mattoso², Osvaldo Novais de Oliveira Jr¹; ¹Instituto de Física de São Carlos, ²Empresa Brasileira de Pesquisa Agropecuária - Embrapa Instrumentação - CNPdia, ³Universidade Federal de São Carlos
- 18:00 Poly(L-lactic acid) (PLLA)/poly(ortho-ethoxyaniline) (POEA) electrospun nanofibers** **P4.S.162**
Luis Marcelo G da Silva¹, Hugo Gajardoni de Lemos¹, José Carlos Moreira¹, Everaldo Carlos Venancio¹; ¹Universidade Federal do ABC
- 18:00 Incorporation of vitamin C in polymer microstructures using solution blow spinning (SB-Spinning) technique** **P4.S.163**
Vanessa Priscila Scagion^{1,2}, Nayara Fernanda Tokashike de Araujo¹, Graziela Solferine Baccarin¹, Juliano E. Oliveira³, Luiz Henrique Capparelli Mattoso², Daniel Souza Corrêa²; ¹Universidade Federal de São Carlos, ²Empresa Brasileira de Pesquisa Agropecuária - Embrapa Instrumentação - CNPdia, ³Universidade Federal de Lavras
- 18:00 Humidity sensing properties of ZnO-Co₃O₄ nanofibers decorated with a polyelectrolyte** **P4.S.164**
Luiza Amim Mercante¹, Rafaela Silveira Andre¹, Jessica Pereira¹, Danilo Locilento¹, Luiz Henrique Capparelli Mattoso¹, Daniel Souza Corrêa¹; ¹Empresa Brasileira de Pesquisa Agropecuária - Embrapa Instrumentação - CNPdia
- 18:00 Synthesis and characterization of polymers of poly metacrylic ACID-CO-POLY dimethacrylate of ethylene glycol and its derivatives** **P4.S.165**
Marcos Roberto de Araujo Silva¹, Viviane do Nascimento Bianchi¹, Elizabete Campos de Lima¹; ¹Universidade Federal do ABC

- 18:00 Physicochemical Properties Evaluation of Nylon 6 - Trimetaphosphate Nanocomposites for Dental Applications** P4.S.166
Francisco Nunes de Souza Neto¹, Danilo Martins dos Santos², Thayse Yumi Hosida¹, Thamires Priscila Cavazana¹, Elisabete Frollini², Sérgio Paulo Campana Filho², Emerson Rodrigues Camargo³, Alberto Carlos Botazzo Delbem¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade de São Paulo, ³Universidade Federal de São Carlos
- 18:00 Coconut fiber/LDPE composites: Effect of surface treatment of coconut fibers to produced green composites** P4.S.167
Yves Nicolau Wearn¹, Maikon Stefano dos Santos¹, Larissa Stieven Montagna¹, Fabio Roberto Passador¹; ¹Universidade Federal de São Paulo
- 18:00 Detection of ammonia gas for nanofibers electrospun of polypyrrole with poly(vinylidene fluoride)** P4.S.168
André Antunes da Silva¹, Bruno Henrique Santana Gois¹, Deuber Lincon da Silva Agostini¹; ¹FCT-UNESP Campus de Presidente Prudente
- 18:00 Morphological and parameters study of nanofibers electrospun** P4.S.169
Bruno Henrique Santana Gois¹, André Antunes da Silva¹, Jessyka Carolina Bittencourt¹, Deuber Lincon da Silva Agostini¹; ¹FCT-UNESP Campus de Presidente Prudente
- 18:00 Development PMMA/PPy nanofibers obtained by electrospinning for use in gas sensors.** P4.S.170
Camilla Martins Ruiz¹, Deuber Lincon da Silva Agostini¹, Jessyka Carolina Bittencourt¹, André Antunes da Silva¹, Bruno Henrique Santana Gois¹, Vitor Galvão Oliveira¹; ¹FCT-UNESP Campus de Presidente Prudente
- 18:00 Morphological analysis and parameterization of nanofibers electrospun of poly(vinylidene fluoride) with polypyrrole** P4.S.171
André Antunes da Silva¹, Bruno Henrique Santana Gois¹, Deuber Lincon da Silva Agostini¹; ¹FCT-UNESP Campus de Presidente Prudente
- 18:00 Cellulose and cellulose nanocrystals from sugarcane bagasse as agro-waste by green chemical treatments** P4.S.172
Lucas Luiz Messa¹, Roselena Faez²; ¹Universidade de São Paulo, ²Universidade Federal de São Carlos
- 18:00 Electrical characterization of PVA/PANI membrane for Nanofibers Produced by Electrospinning** P4.S.173
Jessyka Carolina Bittencourt¹, Bruno Henrique Santana Gois¹, Deuber Lincon da Silva Agostini¹, Clarissa de Almeida Olivati¹; ¹FCT-UNESP Campus de Presidente Prudente
- 18:00 Pesticide electrochemical sensor based on polyamide 6/polypyrrole electrospun nanofibers and graphene** P4.S.174
Fernanda Lanzoni Migliorini¹, Rafaela C. Sanfêlice², Luiza Amim Mercante¹, Murilo H. M. Facure¹, Daniel Souza Corrêa¹; ¹Empresa Brasileira de Pesquisa Agropecuária - Embrapa Instrumentação - CNPdia, ²Universidade Federal do Triângulo Mineiro
- 18:00 Investigation of physico-chemical, morphological and spectroscopic properties of PVP/Eu³⁺ electrospun nanofibers** P4.S.175
Idelma A. A. Terra¹, Rafaela C. Sanfêlice², Vanessa Priscila Scagion^{3,1}, Daniel Souza Corrêa¹; ¹Empresa Brasileira de Pesquisa Agropecuária - Embrapa Instrumentação - CNPdia, ²Universidade Federal do Triângulo Mineiro, ³Universidade Federal de São Carlos
- 18:00 Nanofibers PVA/PEDOT applications in ammonia gas sensors** P4.S.176
Bruno Henrique Santana Gois¹, André Antunes da Silva¹, Jessyka Carolina Bittencourt¹, Deuber Lincon da Silva Agostini¹; ¹FCT-UNESP Campus de Presidente Prudente

- 18:00 SnO microfibers produced by solution blow-spinning** P4.S.177
Thalita Antoniassi Canassa¹, Marina Evangelista de Araújo¹, Igor Cesar dos Santos Litcanov¹, Willian Carvalho da Silva¹, Alem-Mar Bernardes Gonçalves¹, Cicero Rafael Cena¹; ¹Universidade Federal de Mato Grosso do Sul
- 18:00 The potential use and limitations of Blow-spinning technique to produce ceramic fibers** P4.S.178
 Thalita Antoniassi Canassa¹, Fabio Sobral Nogueira¹, Gustavo Sander Larios¹, Willian Carvalho da Silva¹, Camila Carvalho Calvani¹, Caroliny Pereira Mendes de Lima Maranhão¹, Ana Carolina Maranni¹, Alem-Mar Bernardes Gonçalves¹, Cicero Rafael Cena¹; ¹Universidade Federal de Mato Grosso do Sul
- 18:00 Effect of Babassu on PLA Cold Crystallization** P4.S.179
 Ingridy Silva¹, Nichollas Guimarães Jaques², Hannes Schäfer³, Barbara Andreon³, Andreas Ries¹, Eduardo Luis Canedo², Katharina Haag³, Katharina Koschek³, Laura Hecker de Carvalho², Renate Maria Ramos Wellen¹; ¹Universidade Federal da Paraíba, ²Universidade Federal de Campina Grande, ³Fraunhofer Institute for Manufacturing Technology and Advanced Materials
- 18:00 Development and analysis of composites produced with natural rubber and coal called phase present in sugarcane bagasse ash** P4.S.180
Gustavo de Oliveira Cardoso¹, Felipe Pires Chaves¹, Elton Aparecido Prado dos Reis¹; ¹Faculdades Integradas Antônio Eufrásio de Toledo de Presidente Prudente
- 18:00 Preparation, characterization and in vitro controlled release of ethyl acetate fraction of P. fractistipula-loaded Eudragit L100 electrospun fibers** P4.S.181
Evando Santos Araujo¹; ¹Fundação Universidade Federal do Vale do São Francisco
- 18:00 Preparation, Characterization and Photocatalytic applications of niobium-doped (TiO₂/WO₃) nanocomposites dispersed on electrospun fibers** P4.S.182
 Ramiro Passos Guimarães¹, Sandy Monteiro¹, Victor Souza Leão², Evando Santos Araujo²; ¹Universidade do Estado da Bahia, ²Fundação Universidade Federal do Vale do São Francisco
- 18:00 Characterization of nanocellulose extracted by high intensity ultrasound from bacterial cellulose and application in Pickering emulsions** P4.S.183
Lilian dos Santos Martins¹, Márcia Aparecida da Silva Spinacé¹; ¹Universidade Federal do ABC
- 18:00 Compatibility of PHB/bagasse in presence of sorbed/non-sorbed KNO₃** P4.S.184
Camila Gruber Chiaregato¹, Roselena Faez¹; ¹Universidade Federal de São Carlos
- 18:00 Influence of solvents on the formation of nanostructures of L, L diphenylalanine** P4.S.185
Carla Carolina Silva Bandeira¹, H. S. Martinho¹; ¹Universidade Federal do ABC
- 18:00 Development of stationary phase (MISPE) for identification and qualification Of Diethylstilbestrol (DES) in surface water samples by HPLC and RMN** P4.S.186
Andressa Cristina de Sá Montini¹, Elizabete Campos de Lima¹, Clóvis Lúcio da Silva²; ¹Universidade Federal do ABC, ²Universidade de São Paulo
- 18:00 Insertion of sugarcane bagasse ash in clay and water treatment sludge matrices: influence in linear firing shrinkage and weight loss on ignition** P4.S.187
Felipe Pires Chaves¹, Gustavo de Oliveira Cardoso¹, Silvio Rainho Teixeira², Elton Aparecido Prado dos Reis¹; ¹Faculdades Integradas Antônio Eufrásio de Toledo de Presidente Prudente, ²FCT-UNESP Campus de Presidente Prudente
- 18:00 Comparative approaching of mechanical and electrical properties, and electromagnetic shielding of electrospun and dense mats of Poly (vinylidene fluoride) with Montmorillonite/Polypirrol.Dodecylbenzene Sulfonic Acid (PVDF-MMT/PPy.DBSA)** P4.S.188
Vinicius de Menezes Schiefferdecker¹, Claudia Merlini¹, Sílvia D. A. S. Ramôa¹, Guilherme Mariz de Oliveira Barra¹; ¹Universidade Federal de Santa Catarina

- 18:00 Study of electrospinning parameters for the production of PMMA/PCBM nanofibers** **P4.S.189**
Daniele Rocha Souza¹, André Antunes da Silva¹, Bruno Henrique Santana Gois¹, Yasmim Zampiere Sampaio¹, Roger C Hiorns², Clarissa Almeida Olivati¹, Deuber Lincon da Silva Agostini¹; ¹FCT-UNESP Campus de Presidente Prudente, ²CNRS/Université de Pau
- 18:00 Syntheses of polyurethanes from cellulose and castor oil with simultaneous film production** **P4.S.190**
Deyvid Souza Porto¹, Elisabete Frollini¹; ¹Universidade de São Paulo
- 18:00 Use of poly(methyl methacrylate)/chitosan/polyaniline membranes for retrieval of DNA from aqueous media** **P4.S.191**
Filipe Dione Souza Gorza¹, Graciela da Costa Pedro¹, Hérica Dias da Rocha¹, Romário Justino da Silva¹, Bruna Gomes Maciel¹, Juan Carlos Medina Llamas², Alicia Elizabeth Chávez Guajardo³, José Jarib Alcaraz Espinoza¹, Celso Pinto de Melo¹; ¹Universidade Federal de Pernambuco, ²Instituto Politécnico Nacional, ³Universidad Autónoma de Zacatecas
- 18:00 Antimicrobial effect of nanoadditives based on Ag NPs and halosite** **P4.S.192**
Yuri Bilk Matos^{1,2}, Rodrigo Saldanha Romanus^{1,2}, Emilson Ribeiro Viana Junior¹, Rodrigo Lupinacci Villanova¹, Marlene Soares¹; ¹Universidade Tecnológica Federal do Paraná, ²nanoTropic
- 18:00 Electrospun mats of Poly (l-lactide-co-glycolide) containing β - tricalcium phosphate for Guided Bone Regeneration applications** **P4.S.193**
Vanessa Oliveira Castro¹, Claudia Merlini¹, Guilherme Mariz de Oliveira Barra¹, Marcio Celso Fredel¹, Águedo Aragonés²; ¹Universidade Federal de Santa Catarina, ²Instituto de Biotecnologias Aplicadas
- 18:00 Surface modification of electrospun cellulose acetate nanofibers via surfactant addiction** **P4.S.194**
Daniela Sanches de Almeida¹, Eduardo Henrique Duarte², Gabriela Brunosi Medeiros², Marcelino Luiz Gimenes¹, Edvani Curti EDVANI¹, Leila Droprinchinski Martins²; ¹Universidade Estadual de Maringá, ²Universidade Tecnológica Federal do Paraná
- 18:00 Use of polyvinylidene fluoride-pedot mats for methyl orange removal: adsorption, desorption, kinetic and thermodynamic studies** **P4.S.195**
Romário Justino da Silva¹, Bruna Gomes Maciel¹, Kamila Teresa Oliveira do Nascimento¹, Filipe Dione Souza Gorza¹, Graciela da Costa Pedro¹, Edson Reis¹, Gabriela Plautz Ratkovski¹, Hérica Dias da Rocha¹, José Jarib Alcaraz Espinoza¹, Alicia Elizabeth Chávez Guajardo², Juan Carlos Llamas², Celso Pinto de Melo¹; ¹Universidade Federal de Pernambuco, ²Universidad Autónoma de Zacatecas
- 18:00 Synthesis of polyricinoleic acid from castor oil** **P4.S.196**
Roberta Lopes de Paula¹, Elisabete Frollini^{2,1}; ¹Instituto de Química de São Carlos, ²Universidade de São Paulo
- 18:00 Carboximetil hexanoyl chitosan nanoparticle-nanofiber composites by electrospinning** **P4.S.197**
Andrés Felipe Chamorro¹, Jessica Toigo¹, Cassiana Mendes¹, Ricardo Jose Nunes¹, Alexandre Luis Parize¹, Edson Minatti¹; ¹Universidade Federal de Santa Catarina
- 18:00 Evaluation of zeolite clinoptilolite as an inorganic matrix for sorption of programmed release fertilizers** **P4.S.198**
Tamires Santos Pereira¹, Roselena Faez²; ¹Faculdade de Zootecnia e Engenharia de Alimentos, ²Universidade Federal de São Carlos

- 18:00 Study of electrospinning parameters for PVA/PPy to application in sensors** **P4.S.199**
Vagner Santos¹, Pedro Leonardo Silva¹, Bruno Henrique Santana Gois¹, André Antunes da Silva¹, Deuber Lincon da Silva Agostini¹; ¹FCT-UNESP Campus de Presidente Prudente
- 18:00 PVDF/NPK fertilizer composite microfibers produced by blow-spinning: Synthesis and Characterization** **P4.S.200**
Fábio Sobral Nogueira¹, Gustavo Sander Larios¹, bruno marangoni¹, Alem-Mar Bernardes Gonçalves¹, Cicero Rafael Cena¹; ¹Universidade Federal de Mato Grosso do Sul

WEDNESDAY, SEPTEMBER 19

Oral presentations

* Invited Lecture

SESSION S. 01 (09:30 - 10:30) - Room Flamboyant 2

- 09:30 Recent advances in solution blow spun fibers** **S.O1.1***
Eliton S. Medeiros¹, Juliano E. Oliveira², Gregory M. Glenn³, Jonny J. Blaker⁴, Ryan D. Greenhalgh⁵, Romualdo R. Menezes⁶; ¹Universidade Federal da Paraíba, ²Universidade Federal de Lavras, ³U. S. Department of Agriculture, ⁴University of Manchester, ⁵Cambridge University, ⁶Universidade Federal de Campina Grande
- 10:00 Fabrication of ZnO-rGO nanostructures via electrospinning assisted hydrothermal method for degradation of MO.** **S.O1.2**
Pierre Ramos¹, JUAN RODRIGUEZ RODRIGUEZ¹; ¹Universidad Nacional de Ingeniería Lima

Poster presentations

SESSION P5 (11:00 - 12:30)

- 11:00 Solution blow spinning and characterisation of ferromagnetic nickel/carbon composite nanofibres** **P5.S.173**
Rafael Alexandre Raimundo¹, Vinicius Dias Silva², Thiago Araujo Simoes², Eliton S. Medeiros², Marco A. Morales³, Daniel Araújo Macedo¹; ¹Federal University of Paraíba, ²Universidade Federal da Paraíba, ³Universidade Federal do Rio Grande do Norte
- 11:00 Reinforced recycled polypropylene with buriti fiber** **P5.S.174**
Antônio Hortêncio Antonio¹, Isabella Avelino Gianelli¹, Nathalia Fernandes¹, Terezinha Jocelen Masson¹, Leila Figueiredo de Miranda¹; ¹Universidade Presbiteriana Mackenzie

- 11:00 Development and characterization of PVDF eletrospun nanofibers with graphene and strontium titanate** P5.S.175
Carlos Eduardo Campos Lanzi¹, wagner da silveira², Silvio Rainho Teixeira³, Celso Xavier Cardoso³, Deuber Lincon da Silva Agostini³; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade Tecnológica Federal do Paraná, ³FCT-UNESP Campus de Presidente Prudente
- 11:00 Preparation Cellulose nanocrystals / Alginates by Electrospun** P5.S.176
Rosemeire Santos Almeida^{1,2,3}, Eronildo Alves Pinto Junior¹, Claudenete Vieira Leal¹, Marcos Akira d'Ávila¹; ¹Universidade Estadual de Campinas, ²Faculdade de Tecnologia de Mauá, ³Faculdade de Tecnologia "Arthur de Azevedo" Mogi Mirim
- 11:00 Obtaining Nanofibrous PVDF Films by the Airbrush Technique** P5.S.177
Gabriel da Cruz Dias¹, Thelma Sley Pacheco Cellet², Alex Otávio Sanches¹, Luiz Francisco Malmonge¹; ¹Faculdade de Engenharia de Ilha Solteira - UNESP, ²Universidade Estadual de Maringá
- 11:00 Obtaining PLA nanofibers by electrospinning and modification by non-thermal plasma for use as a scaffold for cell adhesion and growth cell** P5.S.178
Rodrigo Balen¹, Taís Felix¹, Nito Angelo Debacher¹; ¹Federal University of Santa Catarina
- 11:00 Nanofibers electrospun of conjugated polymers for use in sensors and photovoltaic devices** P5.S.179
André Antunes da Silva¹, Bruno Henrique Santana Goís¹, Vagner Santos¹, Pedro Leonardo Silva¹, Daniele Rocha Souza¹, Carlos Eduardo Lanzi¹, Camilla Martins Ruiz¹, Clarissa de Almeida Olivati¹, Roger C Hiorns², Deuber Lincon da Silva Agostini¹; ¹FCT-UNESP Campus de Presidente Prudente, ²CNRS/Université de Pau
- 11:00 Poly(lactic acid)/wool fibers composites: the influence of monobutylmaleate as a plasticizer and compatibilizer** P5.S.180
Idejan Padilha Gross¹, Karoline Siqueira Hergenröder¹, Alfredo Tiburcio Nunes Pires¹; ¹Federal University of Santa Catarina
- 11:00 Immobilization of exfoliated dichalcogenide in nanofibers: investigation of morphology and optical properties** P5.S.181
Rodrigo Schneider¹, Luiza Amim Mercante², Rafaela Silveira Andre², Wania Aparecida Christinelli², Idelma A. A. Terra², Daniel Souza Corrêa²; ¹Federal University of Sao Carlos, ²Empresa Brasileira de Pesquisa Agropecuária - Embrapa Instrumentação - CNPdia
- 11:00 PVDF/Carbon Black composite fibers produced by blow-spinning technique** P5.S.182
Thalita Antoniassi Canassa¹, Jessica Lima Viana¹, Alem-Mar Bernardes Gonçalves¹, Cicero Rafael Cena¹; ¹Universidade Federal de Mato Grosso do Sul
- 11:00 Study of non-isothermal cold crystallization and plasticizing of poly(lactic acid) in presence of maleic acid** P5.S.183
Rodrigo Henrique Saatkamp¹, Idejan Padilha Gross¹, Alexandre Luis Parize¹, Alfredo Tiburcio Nunes Pires¹; ¹Federal University of Santa Catarina
- 11:00 Analysis of the electrospinning parameters to PVDF nanofibers for use in photovoltaic devices** P5.S.184
Vitor Galvão Oliveira¹, Deuber Lincon da Silva Agostini¹, Camilla Martins Ruiz¹, André Antunes da Silva¹, Bruno Henrique Santana Goís¹; ¹FCT-UNESP Campus de Presidente Prudente
- 11:00 Effects of solution and process parameters on morphology Zein/PEO fibers blends produced by electrospinning** P5.S.185
Gabriela Brunosi Medeiros¹, Daniela Sanches de Almeida², ELISANGELA CORRADINI¹, Edvani Curti EDVANI²; ¹Universidade Tecnológica Federal do Paraná, ²Universidade Estadual de Maringá

- 11:00 Study and characterization electrospun nanofibers of poly (methyl methacrylate) for the production of sensors and photovoltaic cells** P5.S.186
Yasmim Zampieri Sampaio¹, Deuber Lincon da Silva Agostini¹, André Antunes da Silva¹, Bruno Henrique Santana Gois¹, Daniele Rocha Souza¹; ¹FCT-UNESP Campus de Presidente Prudente
- 11:00 Exploring pure and mixed metal phases as catalysts for wurzite InP nanowire growth** P5.S.187
Mariana Zavarize¹, Murilo Moreira¹, VARLEI RODRIGUES¹, Monica Alonso Cotta¹; ¹Universidade Estadual de Campinas
- 11:00 PVDF/GO composite blow-spun nanofibers: Synthesis and Characterization** P5.S.188
Gustavo Sander Larios¹, Diego Cardoso Barbosa Alves¹, Daniel Araujo Gonçalves², Luis Felipe Plaça¹, Alem-Mar Bernardes Gonçalves¹, Cicero Rafael Cena¹; ¹Universidade Federal de Mato Grosso do Sul, ²Universidade do Estado de Minas Gerais
- 11:00 Synthesis and Properties of PVDF/CoFeO₄ nanoparticles composite nanofibers by blow-spinning** P5.S.189
Gustavo Sander Larios¹, Jessica Lima Viana¹, Daniel Araujo Gonçalves², Fabio Sobral Nogueira¹, Alem-Mar Bernardes Gonçalves¹, Cicero Rafael Cena¹; ¹Universidade Federal de Mato Grosso do Sul, ²Universidade do Estado de Minas Gerais
- 11:00 Potential use of babaçu coconut fibers in mortar for application in civil construction** P5.S.190
João Batista de Oliveira Libório Dourado¹, Thiago Santos Chaves¹, Fabrícia Fândessan Costa Alves¹, Maria Elayne Rodrigues Alves¹, Valdeci Bosco dos Santos¹; ¹Universidade Federal do Piauí
- 11:00 Effect in the morphological and electrical properties PVDF nanofibers electrospun with addition of P3HT** P5.S.191
Pedro Leonardo Silva¹, Vagner Santos¹, Bruno Henrique Santana Gois¹, André Antunes da Silva¹, Deuber Lincon da Silva Agostini¹; ¹FCT-UNESP Campus de Presidente Prudente
- 11:00 Chitosan/NPK fertilizer composite microfibers for agricultural applications** P5.S.192
Fábio Sobral Nogueira¹, Jessica Lima Viana¹, Bruno Marangoni¹, Alem-Mar Bernardes Gonçalves¹, Cicero Rafael Cena¹; ¹Universidade Federal de Mato Grosso do Sul
- 11:00 Recycled polypropylene composites reinforced with long coconut fibers** P5.S.193
Márcia Aparecida da Silva Spinacé¹, Carolina Martão¹; ¹Fundação Universidade Federal do Abc
- 11:00 Prospective Study of Polymer with Vegetable Fibers** P5.S.194
Moisés das Virgens Santana¹, Valdivânia Albuquerque do Nascimento¹, Hitalo de Jesus Bezerra da Silva¹, João Batista de Oliveira Libório Dourado¹; ¹Universidade Federal do Piauí
- 11:00 Ultrathin fibers conductive piezoelectric poly(vinylidene fluoride)/nanohydroxyapatite as scaffold for guided bone regeneration** P5.S.195
Conceição de Maria Vaz Elias¹, Francisca Pereira de Araújo², Josy Antevelli Osajima², Edson Cavalcanti da Silva Filho², FERNANDA ROBERTA MARCIANO¹, Alan Ícaro Sousa Morais², Anderson Oliveira Lobo^{2,3}; ¹Universidade Brasil, ²Universidade Federal do Piauí, ³Instituto de Ciência e Tecnologia, Universidade Brasil
- 11:00 Production and characterization of clay-polymer composite for water reuse** P5.S.196
Roberto Rodrigues Cunha Lima¹, Gabriela Medeiros dos Santos¹, Fábio Henrique Costa da Silva¹, Hortencio Dantas Gonzaga de Lima¹, Sara Jamini da Silva Camilo¹, Camila Felix do Nascimento¹, Lindemberg Cordeiro dos Santos¹, Jair Fernandes De Souza¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Rio Grande do Norte - Campus Natal Zona Norte

- 11:00 Effect of the temperature on the PANVA electrospun nanofibers cyclization process** P5.S.197
Giulia Maria Rodrigues Alvares¹, Juliane Carla Bernardi¹, Márcia Tsuyama Escote¹,
 Everaldo Carlos Venancio¹; ¹Universidade Federal do ABC
- 11:00 Synthesis, morphological, and structural properties of nanostructures of TiO₂ / ZrO₂ on the surface of microwires** P5.S.198
Helder Moreira Braga¹, CYNTHIA MARINA RIVALDO GOMEZ¹, Guilherme Sombrio¹, José Antônio Souza¹; ¹Universidade Federal do ABC
- 11:00 Effects of the presence of Ethylene Glycol and AgNWs on the morphology and conductivity of thin films of PEDOT:PSS obtained by spin-coating and electrospinning.** P5.S.199
Eduardo Lima Costa¹, Carlos Eduardo Cava¹, Edvani Curti EDVANI¹; ¹Universidade Tecnológica Federal do Paraná
- 11:00 Development of a composite material polymeric matrix, increased with coconut fibers licuri, for use in transport pipes of water** P5.S.200
Gislane Nunes Andrade¹, Camila Cruz Da Silva²; ¹Instituto Federal de Educação, Ciência e Tecnologia da Bahia, ²Instituto Federal da Bahia

SESSION S. 03 (14:00 - 16:15) - Room Flamboyant 2

- 14:00 A mechanical approach to small-diameter vascular grafts development** S.O3.1*
Florencia Montini Ballarin¹; ¹Instituto de Investigación en Ciencia y Tecnología de Materiales (UNMdP-CONICET)
- 14:30 Study of the Exciton Dynamics and its Temperature Dependency in Multilayered Organic Nanofibers** S.O3.2
Demetrio A da Silva Filho¹; ¹Universidade de Brasília
- 14:45 Preparation and characterization of whiskers cellulose of commercial cotton** S.O3.3
Maraisa Cristiande de Oliveira Leite¹, Ana Paula Cysne Barbosa¹, Luciane P. Rocha Cruz¹; ¹Universidade Federal do Rio Grande do Norte
- 15:00 Relationship between water and soil releasing behavior through time of fertireleasing material** S.O3.4
Déborá França¹, Ângela Fracon Medina², Claudinei Fonseca Souza², Roselena Faez²; ¹Universidade de São Paulo, ²Universidade Federal de São Carlos
- 15:15 Three-layer films of KNO₃-containing cellulose/nanocellulose/chitosan** S.O3.5
Roselena Faez^{1,2}, You-Lo Hsieh³; ¹Universidade Federal de São Carlos, ²Departamento de Ciências da Natureza, Matemática e Educação, ³University of California Davis
- 15:30 Extrusion of biodegradable PBAT/PHB films reinforced by natural babassu filler for agricultural and food packaging** S.O3.6
Ron Hoffmann^{1,2}, Katharina Haag², Katharina Koschek², Renate Maria Ramos Wellen^{3,4}, Eduardo Luis Canedo³, Laura Hecker de Carvalho³; ¹Universität Bremen, ²Fraunhofer Institute for Manufacturing Technology and Advanced Materials, ³Universidade Federal de Campina Grande, ⁴Universidade Federal da Paraíba
- 15:45 ZnO/TiO₂/ Graphene nanostructures fabricated by a novel electrostatically modified electrospinning technique for water purification** S.O3.7*
JUAN RODRIGUEZ RODRIGUEZ¹; ¹Universidad Nacional de Ingeniería Lima

SYMPOSIUM T - Surface Engineering: from science to practice

Symposium organizers:

Carlos Alejandro Figueroa (UCS)
Felipe de Campos Carreri (Instituto SENAI de Inovação em Engenharia de Superfícies)
Fernando Lázaro Freire Jr. (PUC-Rio)

MONDAY, SEPTEMBER 17

Oral presentations

* Invited Lecture

SESSION T. 01 (09:30 - 10:30) - Room Cedro 6

- 09:30 Ternary Oxide Coatings as Solid Lubricants for Extreme Environments** T.O1.1*
Samir M Aouadi¹, Gu Jingjing¹, Hongyu Gao², Ashlie Martini²; ¹University of North Texas, ²University of California Merced
- 10:00 Self-lubricating composite with surface Mo or Ni-enriched produced by granulated or in situ generated lubricants** T.O1.2
Keli Vanessa Salvador Damin¹, Alícia Correa Lucena¹, Tatiana Bendo¹, Cristiano Binder¹, Aloisio Nelmo Klein¹; ¹Universidade Federal de Santa Catarina
- 10:15 Adhesion of a-C:H films on steel by N₂ etching in silicon-containing interlayers** T.O1.3
Carla Daniela Boeira¹, Leonardo Mathias Leidens¹, Alexandre Fassini Michels¹, Carlos Alejandro Figueroa¹; ¹Universidade de Caxias do Sul

SESSION T. 02 (11:00 - 12:00) - Room Cedro 6

- 11:00 Plasma functionalization of graphite/graphene for improved dispersion in water and oil** T.O2.1
Felipe de Campos Carreri¹, Fábio Augusto de Souza Ferreira¹, Karyne Ramos de Campos Juste¹, Tiago Manoel de Oliveira Santos¹; ¹Instituto SENAI de Inovação em Engenharia de Superfície
- 11:15 Assessment of water quality based on the contact angle over superhydrophobic surfaces bioinspired on structures of leaves from the Brazilian semiarid region** T.O2.2
Felipe Leon Nascimento Sousa¹, Lizeth Carolina Mojica Sánchez¹, Petrus d'Amorim Santa-Cruz¹; ¹Universidade Federal de Pernambuco
- 11:30 Nucleation and growth studies of Surface Metal-Organic Frameworks (SURMOFs) supported on self-assembled monolayers** T.O2.3
Tatiana Parra Vello^{1,2}, Mathias Strauss², Davi Henrique Starnini de Camargo², Carlos Cesar Bof Bufon²; ¹Universidade Estadual de Campinas, ²Centro Nacional de Pesquisa em Energia e Materiais
- 11:45 Different interlayer/doped film architectures prompting DLC adhesion on steel** T.O2.4
Stevan Tomiello¹, Vanessa Piroli², Débora dos Santos Milano Gonçalves², Bruna Louise Perotti², Carlos Alejandro Figueroa^{2,1}; ¹Plasmar Tecnologia, ²Universidade de Caxias do Sul

SESSION T. 03 (14:00 - 16:15) - Room Cedro 6

- 14:00 Tailoring surface properties for tool applications with coatings produced by HiPIMS** T.O3.1*
Joaquin Oseguera¹, Dulce Melo-Máximo¹, Lizbeth Melo_máximo¹; ¹Tecnológico de Monterrey

- 14:30 Crystallographic orientation mapping in nanoscale of Ti-Nb coatings deposited on AISI 316L stainless steel by magnetron sputtering** T.O3.2
Ernesto David Gonzalez¹, Conrado Ramos Moreira Afonso², Pedro Augusto de Paula Nascente¹; ¹Federal University of Sao Carlos, ²Universidade Federal de São Carlos
- 14:45 Analysis of surface finishing in hard turning of AISI 52100 steel with PCBN and cemented coated carbide tools** T.O3.3
Clarianne Natali de Campos^{1,2}, João Vitor Rego Muniz¹; ¹Universidade Federal do Maranhão, ²Universidade CEUMA
- 15:00 Influence of temperature and gas mixture composition on plasma nitrocarburized DIN 100Cr6 steel** T.O3.4
Marcos Alves Fontes^{1,2}, Vladimir Henrique Baggio-Scheid³, David de Souza Machado⁴, Luiz Carlos Casteletti⁵, Pedro Augusto de Paula Nascente¹; ¹Federal University of Sao Carlos, ²Federal Institute of Education, Science and Technology of Sao Paulo, ³Institute for Advanced Studies, ⁴Tecumseh Products Company, ⁵University of Sao Paulo

Poster presentations

SESSION P2 (18:00 - 19:30)

- 18:00 Electrochemical evaluation of the AISI 316 stainless steel coated by Nb₂O₅ thin films** P2.T.123
Eurico Felix Pieretti^{1,2}, Olandir Vercino Correa², Marina Fuser Pillis², Lalgudi Venkataraman Ramanathan²; ¹Universidade Federal do ABC, ²Instituto de Pesquisas Energéticas e Nucleares
- 18:00 DLC film deposition as protective coating of titanium alloy tube using PIII&D system** P2.T.124
Nazir Monteiro dos Santos^{1,2}, Mario Ueda¹, Samantha de Fátima Magalhães Mariano¹; ¹Instituto Nacional de Pesquisas Espaciais, ²Laboratório Associado de Plasma
- 18:00 Large scale fractal gold thin film formation at water-air interface: in situ SERS detection at the interface** P2.T.125
Leonardo Negri Furini¹, Miguel Comesaña-Hermo², Andrea Mariño-López², Ramón Álvarez-Puebla³, Moisés Pérez-Lorenzo², Miguel Correa-Duarte²; ¹FCT-UNESP Campus de Presidente Prudente, ²Universidade de Vigo, ³Universitat Rovira i Virgili
- 18:00 Detection of carbendazim fungicide using surface-enhanced Raman scattering (SERS)** P2.T.126
Leonardo Negri Furini^{1,2}, Santiago Sanchez-Cortes², Isabel López-Tocón³, Juan Carlos Otero³, Carlos José Leopoldo Constantino¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Instituto de Estructura de la Materia, ³University of Málaga
- 18:00 Duplex Stainless Steel SAF 2205 nitrite by ion implantation PI3 subjected to cathodic hydrogenation** P2.T.127
Angela Maria Cordeiro de Oliveira¹, Walmor Cardoso Godoi², Ramón Sigifredo Cortés Paredes¹, ANA PAULA VAZ¹; ¹Universidade Federal do Paraná, ²Universidade Tecnológica Federal do Paraná
- 18:00 The use of nitriding by ion implantation PI3 to act as a barrier in the embrittlement by hydrogen in stainless steels AISI 304L** P2.T.128
Angela Maria Cordeiro de Oliveira¹, Walmor Cardoso Godoi², Ramón Sigifredo Cortés Paredes¹, ANA PAULA VAZ³; ¹Universidade Federal do Paraná, ²Universidade Tecnológica Federal do Paraná, ³Faculdade Educacional da Lapa

- 18:00 Assessment of Cu(II), Zn(II) Cr(III) and Cd(II) removal from aqueous samples using *Typha sp* as biosorbent** P2.T.129
 Joseane Rabelo¹, Paula Chiachia Pasta¹, Alexandre de Oliveira Jorgetto², Adrielli Cristina Silva¹, Gustavo Rocha Castro², Margarida Juri Saeki³; ¹Instituto de Química de Araraquara, ²Instituto de Biocências, Universidade Estadual Paulista Júlio de Mesquita Filho, ³Universidade Estadual Paulista Júlio de Mesquita Filho
- 18:00 Barrier and mechanical properties of carbon steel coated with SiO_x/SiO_xC_yH_z gradual films prepared by PECVD** P2.T.130
Rita de Cássia Cipriano Rangel^{1,2}, Elidiane Cipriano Rangel¹, Nilson C Cruz¹, Antonella Milella², Francesco Fracassi²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²University of Bari Aldo Moro
- 18:00 Thermal Evaporated Bismuth Triiodide Thin Films** P2.T.131
 Natália de Faria Coutinho¹, Rafael Borges Merlo¹, Nelson Fabian Villegas¹, Francisco Chagas Marques¹; ¹Universidade Estadual de Campinas
- 18:00 Dyeing in cotton fabrics treated with oxygen plasma** P2.T.132
João Batista Giordano¹; ¹Faculdade de Tecnologia de Americana
- 18:00 Effect of Plasma Immersion Ion Implantation on wear behavior of Ti-6Al-4V alloy** P2.T.133
 Fabrícia Assis Resende¹, Maria Margareth da Silva², Danieli Aparecida Pereira Reis¹, Rogério M Oliveira³, Carla Silva³; ¹Universidade Federal de São Paulo, ²Instituto Tecnológico de Aeronáutica, ³Instituto Nacional de Pesquisas Espaciais
- 18:00 Dynamic friction and wear measurement of Teflon.** P2.T.134
Carlos Alberto Fonzar Pintão¹, Edgar Boralí¹, Lucas Pereira Piedade¹; ¹Faculdade de Ciências - UNESP - Campus de Bauru
- 18:00 Study of X-Ray Attenuation with Barite Concrete Shielding and Plumbic Glass** P2.T.135
Roberto Paulo Barbosa Ramos¹, Emiliane Advíncula Malheiros¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Pará
- 18:00 Scanning Using Test Bodies for Reliability Studies Ultrasound** P2.T.136
Roberto Paulo Barbosa Ramos¹, Emiliane Advíncula Malheiros¹; ¹Instituto Federal de Educação, Ciência e Tecnologia do Pará
- 18:00 Biopolymer derived from vegetable oil as adsorbent of the dye base Rhodamine B** P2.T.137
 Rejane Teixeira do Nascimento¹, Rogério Almiro Oliveira Silva¹, Valdivânia Albuquerque do Nascimento¹, Patrícia Alves de Abreu e Sousa¹, Heldeney Rodrigues de Sousa¹, Millena de Cassia Sousa e Silva¹, Marcel Leiner De Sá¹, José Milton Elias de Matos¹, Maria Rita de Moraes Chaves Santos¹, Yvo Borges da Silva¹; ¹Universidade Federal do Piauí
- 18:00 Adsorption of oily contaminants from biodiesel washing water in pure and expanded vermiculite clay** P2.T.138
Rogério Almiro Oliveira Silva¹, Maria Rita de Moraes Chaves Santos¹, Hitalo de Jesus Bezerra da Silva¹, Heldeney Rodrigues de Sousa¹, Patrícia Alves de Abreu e Sousa¹, Yvo Borges da Silva¹, Millena de Cassia Sousa e Silva¹, Valdivânia Albuquerque do Nascimento¹, Marcel Leiner De Sá¹, Rejane Teixeira do Nascimento¹; ¹Universidade Federal do Piauí
- 18:00 Plasma electrolytic oxidation of titanium for photocatalytic applications** P2.T.139
Danilo Cavalcante Braz¹, Jussier de Oliveira Vitoriano¹, Júlio Fernando Sousa De Carvalho², Júlio César Pereira Barbosa¹, Rômulo Ribeiro Magalhães de Sousa², Clodomiro Alves Jr.¹; ¹Universidade Federal Rural do Semi-Árido, ²Universidade Federal do Piauí

- 18:00 Study of the optimal deposition parameters of DLC films by means of the PECVD technique with additional cathode** P2.T.140
Thalita Sani Taiariol^{1,2}, Elver Juan de Dios Mitma Pillaca², Jesús Manuel Gutierrez Bernal³, Vladimir Jesus Trava-Airoldi^{1,2}; ¹Universidade Federal de São Paulo, ²Instituto Nacional de Pesquisas Espaciais, ³Universidad Nacional de Colombia
- 18:00 Surface-enhanced Raman scattering for detecting ametryn on sugar cane** P2.T.141
Sabrina Aléssio Camacho¹, rafael Jesus gonçalves Rubira¹, Carlos José Leopoldo Constantino¹; ¹FCT-UNESP Campus de Presidente Prudente
- 18:00 Glass-ceramics obtained from the system SiO₂-ZrO₂-K₂O-CaO: effect of the nucleating agent TiO₂ on the devitrification of ZrSiO₄** P2.T.142
Eduardo Quinteiro¹, Ana Paula Fonseca Albers¹, Eliandra de Sousa Trichês¹, Lucilene da Silva Freitas¹; ¹Universidade Federal de São Paulo
- 18:00 Phonon-Magnon Interaction in Nanofilms of NiO** P2.T.143
Vitor Hugo da Silva Maldonado¹, Monica de Mesquita Lacerda¹; ¹Universidade Federal do Rio de Janeiro
- 18:00 Mn-porphyrins anchored to chloropropyl-modified and unmodified silica gel as catalysts for biomimetic oxyfunctionalization of linear and cyclic alkane** P2.T.144
Victor Hugo Araujo Pinto¹, Barbara Mariz Silva¹, Júlio Santos Rebouças¹; ¹Universidade Federal da Paraíba
- 18:00 Cationic Mn porphyrins supported on SBA-15 and HMS mesoporous silicas and amorphous silica gel: A comparative study as cyclohexane oxidation catalysts** P2.T.145
Victor Hugo Araujo Pinto¹, Shirley Nakagaki², Júlio Santos Rebouças¹; ¹Universidade Federal da Paraíba, ²Universidade Federal do Paraná
- 18:00 Synthesis and characterization of nanocomposites Poly(Hydroxyethyl Metacrylate)/Laponite for seed coating** P2.T.146
Kelly Santana Lima¹, Ivo de Jesus Cunha¹, Eduardo Santos², Hudson Wallace Perreira de Carvalho², Victor Hugo Vitorino Sarmiento¹; ¹Universidade Federal de Sergipe, ²Universidade de São Paulo
- 18:00 Aspects of corrosion resistance of nickel-chrome alloys and cobalt-chrome obtained by electric arc thermal spray process** P2.T.147
Hector Reynaldo Meneses Costa¹, Mateus Rangel Duarte Carneiro¹, Ricardo Alexandre Amar de Aguiar¹, Erika dos Santos Pereira¹, Marília Garcia Diniz²; ¹Centro Federal de Educação Tecnológica Celso Suckow da Fonseca, ²Universidade do Estado do Rio de Janeiro
- 18:00 The strengthening of surface interactions of paraffin crystals in crude oil related to freezing time: the FT-IR study** P2.T.148
andré luís de oliveira cavaignac¹, Ricardo Jorge Cruz Lima², Franciana Pedrochi²; ¹Universidade CEUMA, ²Universidade Federal do Maranhão
- 18:00 Longitudinal distribution of the DLC film coated on the internal surface of a metallic tube with high aspect ratio** P2.T.149
Elver Juan de Dios Mitma Pillaca¹, Karina Carvalho de Farias Nass¹, Vladimir Jesus Trava-Airoldi¹; ¹Instituto Nacional de Pesquisas Espaciais
- 18:00 Thermomechanical properties of bismuth triiodide thin films** P2.T.150
Natália de Faria Coutinho¹, Rafael Borges Merlo¹, Nelson Fabian Villegas¹, Francisco Chagas Marques¹; ¹Universidade Estadual de Campinas
- 18:00 Effect of pH on the microstructure of pectin chains on silanized glass surface** P2.T.151
Jonatas U Nascimento¹, Giovana C Zambuzi¹, Julia Helena De Paula¹, Adriano L Souza¹, Kelly Roberta Francisco¹; ¹Universidade Federal de São Carlos

- 18:00 Evaluation of the wettability on steel ABNT 1020 using natural corrosion inhibitor in different conditions of superficial finishing** P2.T.152
 Rômulo Martins Ponte¹, Gabriel de Albuquerque Barbosa Baumann¹, Fernando Nunes da Silva¹, João Telésforo Medeiros¹, Renaly dos Santos Neri¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 SAE 52100 steel performance in adhesive wear tests under high hard metallic surface** P2.T.153
Gustavo Sebastião Scheffer¹, Angela Beatriz Coelho Arnt¹, Marcio Roberto da Rocha², Adilson Oliveira¹; ¹Universidade do Extremo Sul Catarinense, ²Universidade Federal de Santa Catarina
- 18:00 Surface characterization on PTFE based composites** P2.T.154
Gustavo Moura de Miranda Henriques¹, Felipe Fernandes Neto¹, Gabriel Marinho Vieira¹, Antônio Paulino de Araújo Neto¹, Juliana Ricardo de Souza¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Encapsulation of benzotriazole in carboxymethylcellulose microcapsules by spray drying** P2.T.155
Francielle Calegari¹, Bruno Campos da Silva¹, João Tedim², Mário Guerreiro da Silva Ferreira², Marcos Antonio Coelho Berton³, Cláudia Eliana Bruno Marino¹; ¹Universidade Federal do Paraná, ²Universidade de Aveiro, ³Instituto Senai de Inovação em Eletroquímica
- 18:00 One and two photons excitation studies of DNA fluorescence enhancement on plasmonic circular nanoslits** P2.T.156
Iram Taj Awan¹, Manoel Messias Pereira de Miranda¹, Otavio de Brito Silva¹, E. Marega Jr.¹; ¹Instituto de Física de São Carlos
- 18:00 Evaluation of textured machining tool with micro grooves thermal conductors** P2.T.157
fernando sabino fonteque ribeiro^{1,2}, Luiz Sanchez², Lucas Gomes Nogueira²; ¹Instituto Federal de Educação, Ciência e Tecnologia do Paraná, ²Universidade Estadual Paulista Júlio de Mesquita Filho
- 18:00 SBA-15 organofunctionalized surface applied to the removal of RN remazol blue dye from aqueous solution** P2.T.158
 Ellen Cristiny Figueiredo¹, Maria Gardennia Fonseca¹, Patricia Kaori Soares², Fernando Volpi Oliveira²; ¹Universidade Federal da Paraíba, ²Universidade Federal do Rio Grande do Norte
- 18:00 SBA-15 organofunctionalized with aminosilane applied to the removal of RG remazol yellow dye from water** P2.T.159
 Ellen Cristiny Figueiredo¹, Maria Gardennia Fonseca¹, Patricia Kaori Soares², Fernando Volpi Oliveira²; ¹Universidade Federal da Paraíba, ²Universidade Federal do Rio Grande do Norte
- 18:00 Effect of plasma-induced modification on natural fiber Sisal properties** P2.T.160
CAMILA CRISTINA DA SILVA¹, Alexandre de Faria Lima¹, Elidiane Cipriano Rangel², Daniel Pasquini³, Mariana Alves Henrique³, Rogério Valentim Gelamo¹; ¹Universidade Federal do Triângulo Mineiro, ²Universidade Estadual Paulista Júlio de Mesquita Filho, ³Universidade Federal de Uberlândia
- 18:00 Nanolithography methodology for confining water in metallic nanochannels** P2.T.161
A. M. Batista¹, R. A. Antunes¹, A. R. V. Benvenho¹, H. S. Martinho¹; ¹Universidade Federal do ABC
- 18:00 Exfoliation Process For MoS₂ Nanosheets: Morphological Study of the Material in Suspensions.** P2.T.162
Daniel Edward Lippross¹, Felipe da Silva Medeiros¹, Jesús Andrés Nuncira Valencia¹, Lucas Oliveira¹, Glaura Goulart Silva¹; ¹Universidade Federal de Minas Gerais

- 18:00 Characterization of coatings of silicide obtained by diffusion in Nb for application at high temperatures** P2.T.163
Beatriz Aparecida Pinto¹, Ana Sofia Clímaco Monteiro D'Oliveira¹; ¹Universidade Federal do Paraná
- 18:00 Comparative study of texturization techniques through average flank wear in high speed steel tools coated with thin TiN film** P2.T.164
Carlos Henrique Medeiros Maia¹, Ramsés Otto Cunha Lima¹; ¹Universidade Federal Rural do Semi-Árido
- 18:00 Electropolymerization of polypyrrole for corrosion protection of AISI 304 stainless steel** P2.T.165
Maurício Kubaski¹, Luiz Gustavo Ecco¹, Guilherme Mariz de Oliveira Barra¹; ¹Universidade Federal de Santa Catarina
- 18:00 Tuning attractive interaction between clay and polyphosphate to make new smart fertilizers** P2.T.166
Ana Zélia Falcão Almeida¹, Francisco de Assis Rodrigues Pereira¹, Rodrigo José de Oliveira¹; ¹Universidade Estadual da Paraíba
- 18:00 Use of γ -Fe₂O₃/Chi/Pani nanocomposite for the multipurpose removal of water contaminants** P2.T.167
Bruna Gomes Maciel¹, Romário Justino da Silva¹, Filipe Dione Souza Gorza¹, Graciela da Costa Pedro¹, Celso Pinto de Melo¹; ¹Universidade Federal de Pernambuco
- 18:00 Using NIR spectroscopy and chemometrics to evaluate clay-polyelectrolyte interactions** P2.T.168
Ana Carolina Alves da Rocha Vale¹, Ana Carla Oliveira de Brito¹, Germano Vêras¹, Rodrigo José de Oliveira¹; ¹Universidade Estadual da Paraíba
- 18:00 Application of Fe₂O₃/PEDOT magnetic nanocomposites as efficient agents for the removal of heavy metal ions and organic dyes** P2.T.169
 Graciela da Costa Pedro¹, Filipe Dione Souza Gorza¹, Hérica Dias da Rocha¹, Edson Reis¹, Gabriela Plautz Ratkovski¹, Romário Justino da Silva¹, Bruna Gomes Maciel¹, Celso Pinto de Melo¹; ¹Universidade Federal de Pernambuco
- 18:00 Effects of current density on commercially pure aluminum surfaces treated by PEO** P2.T.170
Matheus de Medeiros Tavares^{1,2}, Jussier de Oliveira Vitoriano^{1,2}, Gelson Biscaia de Souza³, Adonias Ribeiro Franco Júnior⁴, Ruthilene Catarina Lima da Silva⁵, Clodomiro Alves Junior^{1,2}; ¹Universidade Federal do Rio Grande do Norte, ²Universidade Federal Rural do Semi-Árido, ³Universidade Estadual de Ponta Grossa, ⁴Instituto Federal do Espírito Santo, ⁵Instituto Federal do Rio Grande do Norte
- 18:00 Study of HMDSO film deposition on SAE 1020 steel for corrosion protection** P2.T.171
Leide Lili Gonçalves da Silva¹, Pedro Victor Martinelli Fagundes¹, Felipe Vicente Paula Kodaira², Kontantin Georgiev Kostov²; ¹Faculdade de Tecnologia de Pindamonhangaba, ²Universidade Estadual Paulista Júlio de Mesquita Filho
- 18:00 Behaviour of PVD multi-layer coating carbide inserts in dry machining of nickel aluminium bronze alloy** P2.T.172
Marcos de Aguiar Guimarães¹, Givanildo Alves dos Santos^{1,2}, Herbert Cesar Gonçalves de Aguiar¹, Daniel Iwao Suyama³, Márcio Rodrigues da Silva^{4,5}, Vinicius Torres dos Santos^{4,5}, Francisco Yastami Nakamoto¹, Carlos Frajuca¹, Gilmar Ferreira Batalha⁶, Antonio Augusto Couto^{7,8}; ¹Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, ²Universidade Virtual do Estado de São Paulo, ³Faculdade de Ciências Aplicadas, ⁴Centro Educacional da Fundação Salvador Arena, ⁵Termomecânica São Paulo S.A., ⁶Escola Politécnica de Universidade de São Paulo, ⁷Universidade Presbiteriana Mackenzie, ⁸Instituto de Pesquisas Energéticas e Nucleares

- 18:00 The influence of the scheelite tailings on hardness of a PTFE composite based** P2.T.173
Marcelo Torres Lima de Almeida¹, Gustavo Moura de Miranda Henriques¹, Antônio Paulino de Araújo Neto¹, Juliana Ricardo de Souza¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Functionalized Porous Silica Material adorned with lanthanides (III) as an effective and recyclable catalyst for degradation of phosphate esters** P2.T.174
Carlos Alberto Amaya Vargas¹, Tiago Antônio Brandão¹, Maria Helena Araujo¹; ¹Universidade Federal de Minas Gerais
- 18:00 Preparation of colloidal polyaniline water dispersion** P2.T.175
Camila Aparecida Zimmermann¹, Luiz Gustavo Ecco¹, Guilherme Mariz de Oliveira Barra¹; ¹Universidade Federal de Santa Catarina
- 18:00 Kinetic studies of paraoxon degradation promoted by mesoporous silica materials** P2.T.176
Samara Bomjardim Bahia¹, Carlos Alberto Amaya Vargas¹, Tiago Antônio Brandão¹, Maria Helena Araujo¹; ¹Universidade Federal de Minas Gerais
- 18:00 Effect of surface treatments and roughness on the formation of calcium carbonate scale deposits** P2.T.177
Filipe Viana Ferreira¹, Lucas Muraro Sassi¹, Sérgio de Souza Camargo Jr.¹; ¹Universidade Federal do Rio de Janeiro
- 18:00 Evaluation of fracture tenacity in the high hardness layer produced in steel AISI 4340 and AISI D2 by means of boriding** P2.T.178
Suellen Terroso de Mendonça Ferreira¹, Eduardo Mauro Nascimento¹, Carlos Maurício Lepiński¹; ¹Universidade Tecnológica Federal do Paraná
- 18:00 Characterization and fabrication of thermoplastic starch composite reinforced by PLA nanoparticles** P2.T.179
Vitor Amadeu Corrêa¹, Jennifer Paola Florez Cristancho¹, Renata Simao¹; ¹Universidade Federal do Rio de Janeiro
- 18:00 Evaluation of the molar ratio of the coupling agent APTES and its effects on the siloxane-PU hybrid coating** P2.T.180
Álvaro Guimarães Braz¹, Sandra Helena Pulcinelli¹, Celso Valentim Santilli¹; ¹Instituto de Química de Araraquara
- 18:00 Analysis of the profilometry in PTFE composite bushing filled with tailings of sheelite** P2.T.181
Felipe Fernandes Neto¹, Marcelo Torres Lima de Almeida¹, Iago Henrique Lima Santiago¹, Juliana Ricardo de Souza¹; ¹Universidade Federal do Rio Grande do Norte
- 18:00 Retention of reactive black 5 dye in sugarcane bagasse impregnated with iron** P2.T.182
Aline Rafaela de Almeida¹, Sérgio Toshio Fujiwara¹, Jeferson Iancoski¹; ¹Universidade Estadual de Ponta Grossa
- 18:00 The role of thermal spraying process of SS316 in the aluminization by pack cementation** P2.T.183
Edson Daniel Banak Varela¹, Ana Sofia Clímaco Monteiro D'Oliveira¹; ¹Universidade Federal do Paraná
- 18:00 Bisphenol-A as an emerging pollutant: study of its effects on membrane models with different compositions** P2.T.184
Gabriela de Oliveira¹, Priscila Alessio Constantino¹; ¹FCT-UNESP Campus de Presidente Prudente
- 18:00 Development of easy to clean cotton fabrics** P2.T.185
Fábio Augusto de Souza Ferreira¹, Isabela Maria Ferreira Lopes¹, Felipe de Campos Carreri¹, Célia Regina Oliveira Loureiro¹; ¹Instituto SENAI de Inovação em Engenharia de Superfície

- 18:00 Comparison of the corrosion resistance of anodized and colored 2024, 6061 and 7075 aluminum alloys using electrochemical impedance spectroscopy (EIS)** P2.T.186
Jose Eduardo May¹, Carina Barros Mello¹, Graziela da Silva Savonov¹; ¹Instituto Nacional de Pesquisas Espaciais
- 18:00 Study of the influence of the RRA thermal treatment and plasma nitriding on corrosion behavior of 7075-T6 aluminum alloy** P2.T.187
Graziela da Silva Savonov¹, Maria Gabriela Galvão Camarinha², Letícia Oliveira Rocha², Miguel Justino Ribeiro Barbosa³, Gislene Valdete Martins⁴, Danieli Aparecida Pereira Reis^{4,2}; ¹Instituto Nacional de Pesquisas Espaciais, ²Universidade Federal de São Paulo, ³Universidade de São Paulo, ⁴Instituto Tecnológico de Aeronáutica
- 18:00 Abrasiveness of iron ore slurries correlated to the geological history of the deposits** P2.T.188
Paulo Ricardo Barbosa¹, Alisson Rocha Gomes¹, Pedro Henrique Irene Bruno¹, Adilson Rodrigues da Costa¹; ¹Universidade Federal de Ouro Preto
- 18:00 Chitosan and sodium alginate nanoparticles to incorporate in textile fiber treated by non-thermal plasma** P2.T.189
Mariele Paludetto Sanches¹, Taís Felix¹, Alexandre Luis Parize¹, VALDIR SOLDI²; ¹Federal University of Santa Catarina, ²Instituto Brasileiro de Tecnologia do Couro, Calçado e Artefatos
- 18:00 Modification of the plasma-treated palygorskite clay and evaluation of its adsorption capacity** P2.T.190
Heldeney Rodrigues de Sousa¹, Patrícia Alves de Abreu e Sousa¹, Valdivânia Albuquerque do Nascimento¹, Rogério Almiro Oliveira Silva¹, Yvo Borges da Silva¹, Millena de Cassia Sousa e Silva¹, Lucinaldo dos Santos Silva¹, Edgar Alves Araújo Júnior¹, Marcel Leiner De Sá¹, Maria Rita de Moraes Chaves Santos¹, Rômulo Ribeiro Magalhães de Sousa¹, Edson Cavalcanti da Silva Filho¹; ¹Universidade Federal do Piauí
- 18:00 Preparation of Heterostructures Formed by Layered Double Hydroxydes Coated with Mesoporous Silica** P2.T.191
Lister Pronestino Bianconi¹, Marcos Bizeto¹, Vera Regina Leopoldo Constantino²; ¹Universidade Federal de São Paulo, ²Instituto de Química, Universidade de São Paulo
- 18:00 Investigation of the deposition by electrophoresis of graphene oxide on glass substrate with conductive layer of fluorine doped tin oxide** P2.T.192
Gessé de Sousa Oliveira¹, Vanja Fontenele Nunes¹, Esley Fernando Alves Lima¹, Francisco Marcone Lima¹, Antônio Paulo Santos Souza¹, Francisco Nivaldo Aguiar Freire¹, Ana Fabíola Leite Almeida¹; ¹Universidade Federal do Ceará
- 18:00 Effects of thermal treatment on the structure of amorphous hydrogenated carbon nanoparticles produced by acetylene-containing dusty plasmas.** P2.T.193
Cauê de Souza Coutinho Nogueira¹, Dante Ferreira Franceschini¹; ¹Universidade Federal Fluminense
- 18:00 Phase transition on chemically exfoliated MoS₂ nanosheets: electrocatalytic properties for energy application.** P2.T.194
Felipe Conceição Santos¹, Camila Marchetti Maroneze¹, Leandro Seixas Rocha¹; ¹Graphene and Nanomaterials Research Center - Mackgraphe, Mackenzie Presbyterian University
- 18:00 Experimental planning applied to nitrate adsorption using organophilized mineral clay as absorbent** P2.T.195
PAULO HENRIQUE ALMEIDA DA HORA^{1,2}, ANTONIO CÍCERO DE SOUSA³, LIZSANDRA FERNANDA ARAÚJO CAMPOS², REYNALDO BORGES GALVÃO SERRA³, GESIVALDO JESUS ALVES FIGUEIREDO³; ¹Universidade Estadual de Alagoas, ²Federal University of Paraíba, ³Instituto Federal de Educação, Ciência e Tecnologia da Paraíba

- 18:00 Optimization Of Organophyl Adsorvent Characteristics In Chromium (III) Removal Through Statistical Analysis** P2.T.196
PAULO HENRIQUE ALMEIDA DA HORA^{1,2}, Lizabetha Fernanda Araújo Campos², ANTONIO CÍCERO DE SOUSA³, REYNALDO BORGES GALVÃO SERRA³; ¹Universidade Estadual de Alagoas, ²Federal University of Paraíba, ³Instituto Federal de Educação, Ciência e Tecnologia da Paraíba
- 18:00 Comparative study of the use of AISI304 and AISI316L steels as electrodes for hydrogen generators by water electrolysis** P2.T.197
Robson Guimarães Sanabio¹, Valter Bezerra Dantas Dantas², Rachel Barros Sanabio¹; ¹Universidade Federal do Ceará, ²Universidade Federal do Rio Grande do Norte
- 18:00 Magnetic anisotropy induced in Ni nanoparticles embedded in biaxial stressed carbon films** P2.T.198
Ângela Carolyn Agra Pinto¹, Alexsandro dos Santos Evangelista da Cruz², Rodrigo Dias dos Santos¹, Yutao Xing¹, Dante Ferreira Franceschini¹, Wallace Castro Nunes¹; ¹Universidade Federal Fluminense, ²Universidade Estadual de Campinas
- 18:00 Combining the sol gel method and spin coating to obtain YIG films with low FMR linewidth on silicon (100) substrate** P2.T.199
Ariel Delgado del Toro¹, Yuset Guerra Dávila¹, JOSE THIAGO DA SILVA¹, Eduardo Padrón Hernández¹, Ramón Raudel Peña Garcia¹; ¹Universidade Federal de Pernambuco
- 18:00 Evaluation of cpTi/Ag bioactive response obtained by plasma assisted deposition for antibacterial action** P2.T.200
Eliziane da Rocha Camargo¹, Vanessa Merlo Kava¹, Carolina Camargo de Oliveira¹, Rodrigo Perito Cardoso¹, Cláudia E. B. Marino¹; ¹Universidade Federal do Paraná

TUESDAY, SEPTEMBER 18

Oral presentations

* Invited Lecture

SESSION T. 01 (09:30 - 10:30) - Room Cedro 6

- 09:30 Advanced Pulsed Power Technologies for Physical and Plasma Enhanced Chemical Vapor Deposition Processes: The Influence of Pulsing Conditions on Ionization and Plasma Density for Industrial Applications.** T.O1.1*
Frank Papa¹, Ivan Fernandez Martinez², Ambjorn Wennberg², Andrew Tudhope³, Tom Casserly³; ¹GP Plasma, ²Nano4Energy SLNE, ³Duralar Technologies
- 10:00 Wear resistance of different plasma nitrided compound layers obtained using a hollow cathode sensitive geometry** T.O1.2
Thiago de Souza Lamim¹, Diego Berti Salvaro¹, Renan Oss Giacomelli¹, Roberto Binder², José Daniel Biasoli de Mello^{1,3}, Cristiano Binder¹, Aloisio Nelmo Klein¹; ¹Universidade Federal de Santa Catarina, ²EMBRACO S.A, ³Universidade Federal de Uberlândia

- 10:15 Inside the nanostructure of organic-inorganic hybrid coatings: A view on the high performance anticorrosive properties and elevated thermal stability** T.O1.3
Fábio Cesar dos Santos¹, Sandra Helena Pulcinelli¹, Celso Valentim Santilli¹, Peter Hammer²; ¹Instituto de Química de Araraquara, ²Universidade Estadual Paulista Júlio de Mesquita Filho

SESSION T. 02 (11:00 - 12:00) - Room Cedro 6

- 11:00 Aspects of coatings on plastic products for decorative and automotive parts.** T.O2.1*
 Roel Tietema¹, Dave Doerwald¹, Chinmay Trivedi¹, Ivan Kolev¹, Jeroen Landsbergen¹; ¹IHI Hauzer Techno Coating BV.
- 11:30 Self-healing PMMA-CeO₂ coatings for anticorrosive protection of carbon steel** T.O2.2
Samarah Vargas Harb¹, Andressa Trentin¹, Thiago A. C. de Souza¹, Sandra Helena Pulcinelli¹, Celso Valentim Santilli¹, Peter Hammer¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 11:45 Wear and corrosion properties of austenitic HVOF coatings with TRIP effect** T.O2.3
Guilherme Yuuki Koga¹, Witor Wolf¹, Robert Schulz², Sylvio Savoie², Claudio S. Kiminami¹, Claudemiro Bolfarini¹, Walter José Botta¹; ¹Universidade Federal de São Carlos, ²Hydro-Quebec Research Institute

SESSION T. 03 (14:00 - 16:15) - Room Cedro 6

- 14:00 Sorption and complexing equilibria at the surface of nitrogen containing weakly and strongly basic organo-silica anion exchangers** T.O3.1
Oleg Tkachenko^{1,2}, Mykyta Onizhuk², Anton Panteleimonov², Edilson Valmir Benvenuti¹, Yuriy Kholin²; ¹Universidade Federal do Rio Grande do Sul, ²V. N. Karazin Kharkiv National University
- 14:15 Synthesis of strontium hydroxyapatite nanoparticles and their application for protein purification** T.O3.2
Elayne Valério Carvalho^{1,2,3}, Larissa da Silva Laurentino², Davino Machado Andrade Neto^{2,4}, Isabele Braga da Silva², Pierre Basílio Almeida Fachine², Ivanildo Junior²; ¹Universidade Estadual do Ceará, ²Universidade Federal do Ceará, ³Centro Universitário Christus, ⁴Universidade da Integração Internacional da Lusofonia Afro-Brasileira
- 14:30 Solid-State NMR Spectroscopy as Tool for Investigation of Surface Modified Silica Particles** T.O3.3
Carsten Doerenkamp¹, Marylyn Setsuko Arai¹, Malte Grüner¹, Sabrina Surmiak², Armido Studer², Andrea Simone Stucchi de Camargo¹, Hellmut Eckert¹; ¹Instituto de Física de São Carlos, ²University of Münster
- 14:45 Characterization of thin films of TiO₂ with antimicrobial properties for use in orthodontic products** T.O3.4
Ellen lopes Alves^{1,2}, Nelcy Della Santina Mohallem³, Sisenando Itabaiana Sobrinho⁴, Augusto Sette Dias⁵; ¹Universidade Federal de Ouro Preto, ²Rede Temática em Engenharia de Materiais, ³Universidade Federal de Minas Gerais, ⁴Faculdade Sete Lagoas, ⁵Centro Universitário Newton Paiva
- 15:00 Lipase immobilization on novel silica-based magnetic materials** T.O3.5
Rafaela Carvalho de Andrade¹, Monique Deon¹, Roberta da Silva Bussamara Rodrigues¹, Tania Maria Haas Costa¹, Eliana Weber de Menezes¹, Edilson Valmir Benvenuti¹; ¹Universidade Federal do Rio Grande do Sul

- 15:30 Influence of end-steps parameters on the structure and properties of siloxane-polyurethane hybrid coatings** T.O3.6
Álvaro Guimarães Braz¹, Sandra Helena Pulcinelli¹, Celso Valentim Santilli¹; ¹Instituto de Química de Araraquara
- 15:45 DoD inkjet printing of non-wetting surfaces bioinspired on leaf templates: from the AFM image to a PVB replica using *TopoSlicer*** T.O3.7
Rosely Santos de Queiroz¹, Elibe Silva Souza Negreiros¹, Sílvio Barros Melo¹, Severino Alves Júnior¹, Petrus d'Amorim Santa-Cruz¹; ¹Universidade Federal de Pernambuco
- 16:00 Template-free synthesis of MFI-type zeolite in lithium extraction procedure from beta-spodumene samples.** T.O3.8
Leonardo Leandro dos Santos¹, Sibele Berenice Castellã Pergher¹, Rubens Maribondo do Nascimento¹, Cristina C Moreno², Antonio Chica Lara²; ¹Universidade Federal do Rio Grande do Norte, ²Universidad Politécnica de Valencia

SYMPOSIUM U - Carbon nanocomposites: synthesis and application

Symposium organizers:

Volodymyr Zaitsev (PUC-Rio)

Jaqueline Pérola Souza (USP)

MONDAY, SEPTEMBER 17

Oral presentations

* Invited Lecture

SESSION U. 01 (09:30 - 10:30) - Room Álamo 1

- 09:30 Graphitization of different carbon precursors with nickel, niobium and nickel-niobium alloy** U.O1.1
Pedro Augusto Silva¹, Rafael Borges Alves Rennó¹, Paula Regina Dutra¹, Clascídia A. Furtado¹, Guilherme F. B. Lenz e Silva^{2,3}, Adelina Pinheiro Santos¹; ¹Centro de Desenvolvimento da Tecnologia Nuclear, ²Universidade de São Paulo, ³Escola Politécnica de Universidade de São Paulo
- 09:45 Graphitization of activated carbon obtained from local biomass (babassu) and their electrochemical properties** U.O1.2
Anupama Ghosh¹, Cláudia do Amaral Razzino², Archi Dasgupta³, Kazunori Fujisawa³, Jose Renato da Cunha⁴, Anderson Oliveira Lobo^{1,2}, Joshua Robinson³, Mauricio Terrones³, Bartolomeu Cruz Viana¹; ¹Universidade Federal do Piauí, ²Universidade do Vale do Paraíba, ³Pennsylvania State University, ⁴Universidade Federal do Pará
- 10:00 Comparison between heptane and methane as precursors of a-C:H films: mechanical and chemical properties study.** U.O1.3
William Emanuel Viana¹, Sérgio de Souza Camargo Jr.¹; ¹Universidade Federal do Rio de Janeiro
- 10:15 Synthesis of graphene nanomaterials for use in polymeric nanocomposites** U.O1.4
Nathália Maria Barbosa Nogueira^{1,2}, Felipe de Andrade De Andrade Silva^{1,2}, Lilian Kássia de Assis^{1,2}, Marcos Gomes Ghislandi^{1,2}; ¹Universidade Federal Rural de Pernambuco, ²Unidade Acadêmica do Cabo de Santo Agostinho

SESSION U. 02 (11:00 - 12:00) - Room Álamo 1

- 11:00 Fuel cell and electrochemical studies of the ethanol electro-oxidation in alkaline media using PtAuIr/C as anodes** U.O2.1
Sirlane Gomes Silva¹, Eric Hossein Fontes¹, Júlio César Martins Silva¹, Mônica Helena Marcon Teixeira Assumpção², Almir Oliveira Neto¹, Marcelo Linardi¹; ¹Instituto de Pesquisas Energéticas e Nucleares, ²Universidade Federal de São Carlos
- 11:15 Hydrodeoxygenation of Phenol Over MoO₃ and Mo₂C/CMK-3 catalysts** U.O2.2
Eduardo Rigoti¹, Sibele Berenice Castellã Pergher¹; ¹Universidade Federal do Rio Grande do Norte
- 11:30 Layer-by-layer assembly of a self-healing matrix reinforced with reduced graphene oxides** U.O2.3
Kally Chein Sheng Ly¹, Mawin Javier Martinez Jimenez¹, Diogo Volpati², Silvia Azevedo dos Santos Cucatti¹, Flávio Makoto Shimizu³, Gabriel Gaál¹, Fernando Alvarez¹, VARLEI RODRIGUES¹, Antonio Riul Jr.¹; ¹Universidade Estadual de Campinas, ²Sol Voltaics AB, ³Laboratório Nacional de Nanotecnologia, Centro Nacional de Pesquisa em Energia e Materiais, Campinas

- 11:45 Layer-by-Layer assembly of hybrid carbon-based nanocomposites for energy storage and sensing applications** U.O2.4
 Danilo Alves Oliveira¹, Jodie L. Lutkenhaus², Michael J. Schöning³, José Roberto Siqueira Jr.¹; ¹Universidade Federal do Triângulo Mineiro, ²Texas A&M University, ³Aachen University of Applied Sciences

SESSION U. 03 (14:00 - 16:15) - Room Álamo 1

- 14:00 Biomorphic, nanofibrous SiC aerogels synthesized from bacterial nanocellulose** U.O3.1
Graciano Bay de Souza¹, Daliana Muller¹, Dachamir Hotza¹, Carlos Renato Rambo¹; ¹Universidade Federal de Santa Catarina
- 14:15 Structural characterization of silver nanoparticles deposited on graphene** U.O3.2
 Larissa Akashi¹, Lucas Barreto¹, Ana Champi¹, Douglas Gioielli², Antonio Domingues Santos²; ¹Universidade Federal do ABC, ²Universidade de São Paulo
- 14:30 Metal-to-insulator transition near room temperature in Graphene Oxide (GO) and Graphene Oxide + TiO₂ thin films** U.O3.3
Gustavo Henrique Wegher¹, Emilson Ribeiro Viana Junior¹, Paula Cristina Rodrigues¹, Geraldo Mathias Ribeiro², Jeferson Ferreira de Deus¹; ¹Universidade Tecnológica Federal do Paraná, ²Universidade Federal de Minas Gerais
- 14:45 Magneto Raman studies in Co nanoparticles deposited on graphene** U.O3.4
 Davi Bohner¹, Larissa Akashi¹, Lucas Barreto¹, Ana Champi¹, Vanessa Gordo², Fernando Iikawa², Douglas Gioielli³, Antonio Domingues Santos³; ¹Universidade Federal do ABC, ²Universidade Estadual de Campinas, ³Universidade de São Paulo
- 15:00 Morphological characterization of a reduced graphene oxide/poly(3-hydroxybenzoic acid) nanocomposite for biosensing applications** U.O3.5
José Manuel Rodrigueiro Flauzino¹, Jussara Vieira Silva¹, Ana Graci Brito Madurro¹, João Marcos Madurro¹; ¹Universidade Federal de Uberlândia
- 15:15 Study of dye adsorption by a hybrid composite for treatment of wastewater in textile industry** U.O3.6
 Ana Cláudia Vaz de Araújo¹, Rízia Keila Nascimento¹; ¹Universidade Federal Rural de Pernambuco
- 15:30 Paper-based nanomaterials electrodes for energy storage devices** U.O3.7
Lucas Marques¹, Cecilia de Carvalho Castro e Silva¹; ¹Graphene and Nanomaterials Research Center - Mackgraph, Mackenzie Presbyterian University
- 15:45 Carbon Nanostructures as Nanosensors for detection BTX gas** U.O3.8*
Pilar Hidalgo Falla¹, Guilherme Felix¹, Vitor Almeida¹, Henrique Estanislau Maldonado Peres², Wesley Becari², DIEGO CARDOSO DE SOUZA¹, Luiz Henrique Xavier da Silva¹, Julio Santiago³; ¹Universidade de Brasília, ²Escola Politécnica de Universidade de São Paulo, ³Universidad Nacional Mayor de San Marcos

TUESDAY, SEPTEMBER 18

Oral presentations

* Invited Lecture

SESSION U. 01 (09:30 - 10:30) - Room Álamo 1

- 09:30 High grade MWCNT/ZrO₂ composites prepared by sol-gel method and high-pressure technique (4.0 GPa): mechanically resistant, porous and conductive.** U.O1.1
Tania Maria Haas Costa¹, Pamela Andrea Mantey dos Santos¹, Voltaire de Oliveira Almeida¹, Edilson Valmir Benvenuti¹, Naira Maria Balzaretto¹, Marcia Russman Gallas¹; ¹Universidade Federal do Rio Grande do Sul
- 09:45 Influence of ultrasound probe parameters on the structure of multi-walled carbon nanotube Buckypaper** U.O1.2
Jefersson Rojas Corredor^{1,2}, Bruno Ribeiro^{1,2}, Mirabel Cerqueira Rezende^{1,2}; ¹Universidade Federal de São Paulo, ²Departamento de Ciência de Tecnologia

THURSDAY, SEPTEMBER 20

Poster presentations

SESSION P6 (09:30 - 11:00)

- 09:30 Nanocomposite of UHMWPE (ultra high molecular weight polyethylene) with graphene** P6.U.157
Vinícius Oliveira Aguiar¹, Maria de Fátima Vieira Marques¹; ¹Instituto de Macromoléculas Professora Eloisa Mano
- 09:30 Production of activated carbon from Brazilian native bamboo by slow pyrolysis** P6.U.158
Laidy Esperanza Hernández-Mena¹, Talita Mazon², Waldir Antonio Bizzo¹; ¹Universidade Estadual de Campinas, ²Centro de Tecnologia da Informação Renato Archer
- 09:30 Electrocatalytic activity of silver particles electrodeposited onto boron doped ultrananocrystalline diamond/RVC composites for nitrate reduction** P6.U.159
Silvia Sizuka Oishi¹, Andrea Boldarini Couto¹, Edson Cocchieri Botelho², Neidenei Gomes Ferreira¹; ¹Instituto Nacional de Pesquisas Espaciais, ²Universidade Estadual Paulista Júlio de Mesquita Filho
- 09:30 Study of the dynamic-mechanical, rheological and conductive properties of tributyl (ethyl) -phosphonium diethylphosphate liquid acting as curing agent in epoxy resin nanocomposites and carbon nanotubes.** P6.U.160
Danielle Ferreira dos Santos¹, Bluma Guenther Soares¹; ¹Universidade Federal do Rio de Janeiro

- 09:30 Development of a sensor for hydrogen peroxide based on carbon nanotubes and cobalt oxide film** P6.U.161
CLEYLTON BEZERRA LOPES¹, SARA SOUZA PEREIRA¹, Antonio Albuquerque de Souza¹, DIOGO CEZAR FERRO DO NASCIMENTO², WALKER DE LIMA CORDEIRO², MONIK TAMIRES SILVA SANTOS¹, MARCELO ALISSON DE OLIVEIRA BERNARDES¹, JAILSON DOS SANTOS SILVA¹, FELLIPE PEREIRA RODRIGUES¹, FRANCISCO TENÓRIO DE ALBUQUERQUE¹, JESSICA DA CONCEIÇÃO DA SILVA¹, Francisco A.S. Silva³, Phabyanno Rodrigues Lima⁴, MARILIA OL GOULART², LAURO TATSUO KUBOTA⁵; ¹Instituto Federal de Alagoas, ²Universidade Federal de Alagoas, ³Instituto Federal de Educação, Ciência e Tecnologia Baiano, ⁴Instituto Federal de Educação, Ciência e Tecnologia de Alagoas, ⁵FACULDADE ESTADUAL DE CAMPINAS
- 09:30 Electrochemical Detection Ascorbic Acid Using Gold Nanoparticles Electrode Modified with in situ Activated 4-Nitrophenol Self-Assembled Monolayers** P6.U.162
 Diogo Cezar Ferro do Nascimento¹, Felipe Pereira Rodrigues¹, Jailson dos Santos Silva², Francisco Tenório de Albuquerque², Mayrane Carla Marques do Nascimento¹, Walker de Lima Cordeiro¹, Jessica da Conceição da Silva², Monik Tamires Silva Santos², Mauricio Ferreira de Moraes², Sarah Kelly Melo Cavalcante², Lauro Tatsuo Kubota³, Marília Oliveira Fonseca Goulart¹, Phabyanno Rodrigues Lima²; ¹Universidade Federal de Alagoas, ²Instituto Federal de Alagoas, ³Universidade Estadual de Campinas
- 09:30 Dehydrogenation of ethylbenzene: An interesting alternative for the production of carbon nanotubes and coupled FeCo alloys** P6.U.163
 Felipe Fernandes Barbosa¹, Sibele Berenice Castellã Pergher¹, Tiago Pinheiro Braga¹; ¹Universidade Federal do Rio Grande do Norte
- 09:30 Alternative routes for production of reduced Graphene Oxide (GO) and GO + TiO₂ Nanocomposites** P6.U.164
Gustavo Henrique Wegher¹, Emilson Ribeiro Viana Junior¹, Paula Cristina Rodrigues¹, Jeferson Ferreira de Deus¹; ¹Universidade Tecnológica Federal do Paraná
- 09:30 Electrochemical study of Self-Assembled films based on composites of polyaniline and graphene oxide** P6.U.165
 Fábio Ruiz Simões¹, Gabriela Martins de Araújo¹; ¹Universidade Federal de São Paulo
- 09:30 Preparation and characterization of composite electrode PANi/rGO/CF for application in energy storage devices** P6.U.166
Dalva Alves de Lima Almeida¹, Andrea Boldarini Couto¹, Neidenei Gomes Ferreira¹; ¹Instituto Nacional de Pesquisas Espaciais
- 09:30 Effect of boron carbide nanoparticles as reinforcement to ultra-high molecular weight polyethylene** P6.U.167
Naiara Pirahi Chagas^{1,2}, Maria de Fátima Vieira Marques²; ¹Universidade Federal do Rio de Janeiro, ²Instituto de Macromoléculas Professora Eloisa Mano
- 09:30 Synthesis, characterization and application graphene oxide for the removal of textile dyes from industrial effluents by adsorption.** P6.U.168
BÁRBARA SOUZA DAMASCENO¹, Lilian Kássia de Assis¹, Marcos Gomes Ghislandi¹; ¹Universidade Federal Rural de Pernambuco
- 09:30 Synthesis of poly (terephthalic acid) magnetic for the extraction of atenolol in complex matrices** P6.U.169
Anny Talita Silva¹, Hanna Leijoto Oliveira¹, Bruna Carneiro Pires¹, Laise Dinali¹, Keyller Bastos Borges¹; ¹Universidade Federal de São João Del Rei

- 09:30 Photoluminescence response of water soluble carbon quantum dots to metal ions** P6.U.170
João Pedro de Souza de Souza¹, Antônio Alvernes Carneiro Cruz¹, Rafael Melo Freire², Pierre Basílio Almeida Fechine¹; ¹Universidade Federal do Ceará, ²Universidad de Santiago de Chile
- 09:30 Synthesis of mesoporous magnetic polypyrrole for application in adsorption studies of bupropion** P6.U.171
Bruna Carneiro Pires¹, Flávia Viana Avelar Dutra¹, Hanna Leijoto Oliveira¹, Keyller Bastos Borges¹; ¹Universidade Federal de São João Del Rei
- 09:30 Magnetic graphene oxide as support for lipase immobilization** P6.U.172
Gabriel Cardoso Pinto¹, Miguel Jafelicci Junior¹, Rodrigo Fernando Costa Marques¹, Ariela Veloso de Paula¹, Caroline Oliveira da Rocha¹, Guilherme Nunes Lucena¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho
- 09:30 Blue-emitting carbon dots from aminosilica nanoreactor** P6.U.173
Albina Mikhraliieva¹, Henrique Botelho Motta¹, Volodymyr Zaitsev¹; ¹Pontificia Universidade Católica do Rio de Janeiro
- 09:30 Thermal and mechanical properties of a PVA composite with reduced graphene oxide.** P6.U.174
Maysa Karla da Silva Araujo¹, Karolyne Santos da Silva¹, Yeda Medeiros Bastos de Almeida¹, Marilda Nascimento Carvalho¹, Eduardo Henrique Lago Falcão¹; ¹Universidade Federal de Pernambuco
- 09:30 Hybrid Nanocomposite constituted by Polypyrrole (PPy) and Graphene Oxide (GO)** P6.U.175
Ítalo Ricardo Serrão Bezerra¹, Querem Hapuque Rebelo¹, Sérgio Michielon de Souza¹, Edgar Aparecido Sanches¹; ¹Universidade Federal do Amazonas
- 09:30 Application of graphene oxide reduced chemically for textile dye removal** P6.U.176
Karolyne Santos da Silva¹, Maysa Karla da Silva Araujo¹, Deivson César Silva Sales², Marilda Nascimento Carvalho¹, Eduardo Henrique Lago Falcão¹; ¹Universidade Federal de Pernambuco, ²Universidade de Pernambuco
- 09:30 Nanostructured film of reduced graphene oxide and manganese oxide for supercapacitor application** P6.U.177
Danilo Alves Oliveira¹, Jodie L. Lutkenhaus², José Roberto Siqueira Jr.¹; ¹Universidade Federal do Triângulo Mineiro, ²Texas A&M University
- 09:30 The progressive sp²-to-sp³ transition in Single-walled Carbon Nanotubes during Atomic Layer Deposition using in-situ Raman spectroscopy** P6.U.178
Carlos Guerra¹, Raluca Raluca², Meng Li³, Stanislav Moshkalev², Johann Michler¹, Hyung Gyu Park³, Ivo Utke¹; ¹Swiss Federal Institute for Materials Science and Technology, ²Universidade Estadual de Campinas, ³Swiss Federal Institute of Technology / Eidgenössische Technische Hochschule ETH Zürich
- 09:30 Graphene/MoS₂ heterostructure: Chemical Vapor Deposition of MoS₂ on Graphene** P6.U.179
Ester Riedner Figini Gerling¹, Tais Orestes Feijó¹, Gabriel Vieira Soares¹; ¹Universidade Federal do Rio Grande do Sul
- 09:30 Hydrogen storage using graphene as recipient** P6.U.180
Rayana Martins Peres¹, Rodrigo José Corrêa¹, Eric Cardona Romani², Grazieli Simões¹; ¹Universidade Federal do Rio de Janeiro, ²Innovation Institute in Virtual Production Systems
- 09:30 Analysis of the structure of carbon nanofoams produced by laser ablation of C target with and without silver nanoparticles in the presence of Ar buffer atmosphere.** P6.U.181
Ana Carolina loureiro lustosa¹, Yutao Xing¹, Dante Ferreira Franceschini¹; ¹Universidade Federal Fluminense

- 09:30 Comparative adsorption and photodegradation of asphaltene onto hybrid organic-inorganic mesoporous catalyst, SBA-15 and TiO₂- P25** P6.U.182
Luana dos Santos Andrade¹, Bruna Castanheira², Sergio Brochsztain¹; ¹Universidade Federal do ABC, ²Universidade de São Paulo
- 09:30 Preparation and Characterization of Hybrid Systems based on Graphene and Magnetic Nanoparticles** P6.U.183
Pablo Tancredi¹, Patricia Carolina Rivas Rojas¹, Oscar Moscoso-Londoño², Leandro M. Socolovsky³; ¹Consejo Nacional de Investigaciones Científicas y Técnicas, ²Universidad Autónoma de Manizales, ³Universidad Tecnológica Nacional Facultad Regional Santa Cruz - Consejo Nacional de Investigaciones Científicas y Tecnológicas
- 09:30 A Comparative Study of LDA, GGA e vdW Functionals Applied at the graphene/TaC Interface** P6.U.184
Aline Maria Pascon¹, Leonardo Ribeiro Fonseca², José Alexandre Diniz¹; ¹Universidade Estadual de Campinas, ²Universidade Federal de Minas Gerais
- 09:30 Optimization of graphene oxide synthesis parameters obtained from expandable graphite** P6.U.185
Marielle Mara da Silva¹, Bruno Rocha Santos Lemos¹, Marcelo Machado Viana²; ¹Pontifícia Universidade Católica de Minas Gerais, ²Universidade Federal de Minas Gerais
- 09:30 Nanostructured Platform Based on the Molecular Printing Technology Using Precipitation Polymerization Method for the Detection of 4-nitrophenol** P6.U.186
Jéssica Conceição Silva¹, Monik Tamires Silva Santos¹, Marcelo Alisson de Oliveira Bernardes¹, Carlos Henrique Araújo de Oliveira¹, Diogo Cezar Ferro do Nascimento², Felipe Pereira Rodrigues², Walker de Lima Cordeiro², Darlan Acioli da Silva¹, Sara Souza Pereira¹, Mayrane Carla Marques do Nascimento², Herbert Filipe dos Santos Silva¹, Sarah Kelly Melo Cavalcante¹, Wilney de Jesus Rodrigues dos Santos¹, Marília Oliveira Fonseca Goulart², Phabyanno Rodrigues Lima¹; ¹Instituto Federal de Alagoas, ²Universidade Federal de Alagoas
- 09:30 Electrochemical Characterization of Double-walled Carbon Nanotubes Derived from Vegetable Sources** P6.U.187
JOSE HERIBERTO OLIVEIRA NASCIMENTO¹, Alessandra L. Costa Teófilo¹, Rasiah Ladchumananandasivam¹; ¹Universidade Federal do Rio Grande do Norte
- 09:30 Investigation of electrochemical properties of CNT/ITO composites** P6.U.188
Matheus Zorzoli Krolow¹, Andriele Lange da Rosa¹, Guilherme Kurz Maron¹, José Henrique Alano¹, Neftalí Lenin Villarreal Carreño¹; ¹Universidade Federal de Pelotas
- 09:30 Synthesis and Characterization of Graphene Quantum Dots Using Citric Acid as Precursor** P6.U.189
Marcos Luiz Ferreira Gomes¹, Gabriel Gaál¹, VARLEI RODRIGUES¹, Antonio Riul Jr.¹; ¹Universidade Estadual de Campinas
- 09:30 Raman spectroscopy fingerprint of stainless steel-MWCNTs nanocomposite processed by ball-milling** P6.U.190
Marcos Allan Leite dos Reis¹, Newton Martins Barbosa Neto¹, Mário Edson Santos de Sousa¹; ¹Universidade Federal do Pará
- 09:30 Síntese e caracterização de óxido de grafeno reduzido por ácido ascórbico** P6.U.191
Gessé de Sousa Oliveira¹, Vanja Fontenele Nunes¹, Esley Fernando Alves Lima¹, Francisco Nivaldo Aguiar Freire¹, Ana Fabíola Leite Almeida¹; ¹Universidade Federal do Ceará

- 09:30 Synthesis of CNT/clay hybrid nanofiller by CVD aiming application in polymer nanocomposites P6.U.192**
Gabriela Escobar Hochmuller da Silva¹, Jonas Eichelberger Granada¹, Oscar Giordani Paniz¹, Amanda Dantas Oliveira¹; ¹Universidade Federal de Pelotas
- 09:30 Development of Graphene Nanosponge for BTX removal in water contaminated by gasoline P6.U.193**
 DIEGO CARDOSO DE SOUZA¹, Pilar Hidalgo Falla¹, Luiz Henrique Xavier da Silva¹, Vanessa Alvim Alves¹, Gabrielle Dias Coelho¹, Mateus Sousa Pinheiro¹; ¹Universidade de Brasília
- 09:30 Electrochemical Properties of 4-nitroaniline Immobilized on a Zirconium(IV) Oxide-Coated Silica Gel Surface on a graphite paste electrode for determination of ascorbic acid P6.U.194**
Monik Tamires Silva Santos¹, Jessica da Conceição Silva¹, Marcelo Alisson de Oliveira Bernardes¹, Carlos Henrique Araújo de Oliveira¹, Jailson dos Santos Silva¹, Francisco Tenório de Albuquerque¹, Sarah Kelly Melo Cavalcante¹, Lauro Tatsuo Kubota², Marília Oliveira Fonseca Goulart³, Phabyanno Rodrigues Lima⁴; ¹Instituto Federal de Alagoas, ²Universidade Estadual de Campinas, ³Universidade Federal de Alagoas, ⁴Instituto Federal de Educação, Ciência e Tecnologia de Alagoas
- 09:30 Development of a Nanostructured Platforms Based on Graphene and in situ Activated 3,5-dinitrosalicylic acid (DNS): Highly Sensitive Ascorbic Acid Detection P6.U.195**
 Marcelo Alisson de Oliveira Bernardes¹, Felipe Pereira Rodrigues², Diogo Cezar Ferro do Nascimento², Walker de Lima Cordeiro², Sarah Kelly Melo Cavalcante¹, Cleylton Bezerra Lopes¹, Marília Oliveira Fonseca Goulart², Phabyanno Rodrigues Lima³; ¹Instituto Federal de Alagoas, ²Universidade Federal de Alagoas, ³Instituto Federal de Educação, Ciência e Tecnologia de Alagoas
- 09:30 Electrocatalytic activity of activated niclosamide/multi-walled carbon nanotubes electrode to ascorbic acid oxidation P6.U.196**
SARA SOUZA PEREIRA¹, DARLAN ACIOLI DA SILVA¹, JESSICA DA CONCEIÇÃO DA SILVA¹, CARLOS HENRIQUE ARAÚJO DE OLIVEIRA¹, FRANCISCO TENÓRIO DE ALBUQUERQUE¹, FELLIPE PEREIRA RODRIGUES¹, JAILSON DOS SANTOS SILVA¹, HERBERT FILIPE DOS SANTOS SILVA¹, Antonio Albuquerque de Souza¹, MARCELO ALISSON DE OLIVEIRA BERNARDES¹, Francisco A.S. Silva², CLEYLTON BEZERRA LOPES¹, Phabyanno Rodrigues Lima³, LAURO TATSUO KUBOTA⁴, MARILIA OL GOULART⁵; ¹Instituto Federal de Alagoas, ²Instituto Federal de Educação, Ciência e Tecnologia Baiano, ³Instituto Federal de Educação, Ciência e Tecnologia de Alagoas, ⁴Universidade Estadual de Campinas, ⁵Universidade Federal de Alagoas

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Eduardo Rezende Triboni	P1.G.94, P3.C.16, P6.R.135	Elen Rute Lira Gomes	P3.C.4
Eduardo Rigoti	U.O2.2	Eliana Navarro dos Santos Muccillo	D.O2.2, M.O3.1, M.O3.6, P2.M.70, P2.M.74
Eduardo Ruben Nascimento	P5.C.109	Eliana Weber de Menezes	P3.C.87, T.O3.5
Eduardo Ruiz-Hernandez	C.O3.2	Eliandra de Sousa Trichês	P2.T.142, P4.K.53
Eduardo Santos	P2.T.146	Eliane G Lucchesi	C.O1.2
Eduardo Santos Trevisan	P3.C.72	Elias de Souza Monteiro Filho	H.O3.3
Eduardo Sousa Silva	P6.E.65	Elias Paiva Ferreira Neto	P2.G.23
Eduardo tavares Galvani	P2.O.95	Elibe Silva Souza Negreiros	T.O3.7
EDUARDO THADEU RODRIGUES	E.O3.6, P5.C.113	Élida Medeiros Macedo	P4.P.154, P5.P.154
Eduardo Viana de Araujo	P6.D.13	Elidiane Cipriano Rangel	C.O1.3, P2.G.1, P2.T.130, P2.T.160
Eduardo X. Miqueles	L.O3.2	Elieber Barros	K.O1.2
Eduard Westphal	F.O1.3	Eliene Silva Santos	P3.C.5
Edvani Curti EDVANI	P3.H.116, P4.S.194, P5.S.185, P5.S.199	Eliete de Souza Von Zuben	P3.C.59
Edward Joseph Maginn	P6.R.95	Eliezer Fernando de Oliveira	P6.R.117, P6.R.118
Eero Koivusalo	P6.E.46	Eliezer Jager	P5.C.114
Efracio Mamani Flores	R.O3.5	Elioenai Dornelles Alves	P3.C.90
Elaine Cristina Azevedo	P4.L.117	Eliria Maria de Jesus Agnolon Pallone	P5.B.39
Elaine Cristina Gama Palheta	P1.F.75	Elisabete Frollini	C.O3.1, P4.S.166, P4.S.190, P4.S.196
Elaine Sá Menezes Cutrim	C.O1.2	Elisabeth Andreoli de Oliveira	P1.F.84, P5.C.115
Elayne Valério Carvalho	B.O1.2, T.O3.2	Elisabeth Djurado	P3.H.144, P3.H.145
Elchin M. Huseynov	P2.G.30	Elisabeth Mateus Yoshimura	P2.G.13
Elder B Fontes	P3.C.23	Elisa Marchezini Rodrigues	C.O2.2
		Elisa Maria da Cunha Mecês	P5.C.59

Elisama Vieira dos Santos	P3.H.139, P3.H.140	P6.R.107, P6.R.108, P6.R.109, P6.R.121, P6.R.126, P6.R.127, P6.R.132, P6.R.133, P6.R.134, P6.R.140, P6.R.141, P6.R.147, P6.R.96, P6.R.97, P6.R.98, P6.R.99, R.O1.2
Elisângela Barros Dantas	P2.M.72	
Elisângela Belleti	P2.M.88	
ELISANGELA CORRADINI	P5.S.185	
Elisângela Pacheco Silva	P3.H.116	
Eliton S. Medeiros	P3.H.117, P4.P.128, P5.P.132, P5.S.173, S.O1.1	
Elizabeth Campos de Lima	P4.S.165, P4.S.186	
Elizabeth C. Dickey	M.O2.1	
Elizabeth Hillard	P1.F.34	
Elizabeth Mendes de Oliveira	P1.A.10, P1.A.11	
Elizângela Hafemann Fragal	I.O1.5, P3.H.121	
Eliziane da Rocha Camargo	P2.T.200	
Ella Raquel do Vale Souza	P4.P.148	
Ellen Cristiny Figueiredo	P2.T.158, P2.T.159	
Ellen lopes Alves	T.O3.4	
Eloah Latocheski	P3.H.133	
Eloísa Cordoncillo Cordoncillo	P6.R.132, P6.R.133	
Elsa Maria Materón	P3.C.82	
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Elson Longo	H.O1.2, H.O3.3, H.O3.4, P.O3.4, P1.G.97, P1.G.98, P1.G.99, P1.N.125, P2.G.10, P2.G.42, P2.G.8, P3.C.27, P3.H.100, P3.H.99, P4.P.123, P5.E.118, P5.E.121, P5.E.122, P5.P.137, P6.D.12, P6.E.39, P6.E.59, P6.E.66, P6.R.101, P6.R.103, P6.R.104, P6.R.106,	
Elton Aparecido Prado dos Reis		P4.S.180, P4.S.187
Elton Faria de Souza Lima		P5.B.24
Elton José Figueiredo de Carvalho		P6.R.135
Elton Marks de Araujo Braz		P3.C.28, P5.C.64
Elton Marlon Araújo Lima		P5.C.75
Elton Ribeiro da Silva		P2.G.63, P2.G.66, P2.G.67, P2.G.69
Elver Juan de Dios Mitma Pillaca		P2.T.140, P2.T.149
Elvira Maria Correia Fortunato		G.O1.1, P1.F.61
Elvis Carneiro Monteiro		O.O3.6, P6.R.146
Elvis Lopes Brito		P3.C.86
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Emanoel Laurertan Tavares Emanoel Laurertan		P1.G.95, P1.N.154, P4.P.153
Emanuella Ribeiro Coutinho		P4.P.159
E. Marega Jr.		P2.G.20, P2.G.45, P2.T.156, P6.E.50
Emerson Camargo		P6.E.34
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Emery Lins	P6.E.68, P6.E.69	Eric Shimoto	P3.H.129
Emico Okuno	P2.G.13	Eric Teboul	E.O2.1, P6.E.71
Emilia Benvenuti	F.O3.2	Erika Biral Baptistella	P1.N.178, P1.N.179, P1.N.180
Emiliana Cristina Marques Arthuso	P1.N.193	Érika Costa de Alvarenga	P3.C.63, P3.C.64
Emiliane Advíncula Malheiros	P2.T.135, P2.T.136, P5.C.49	Erika dos Santos Pereira	P2.T.147
Emilia Tejeria	P5.C.52	Erika Ketlem Gomes Trindade	C.O1.3
Emilse Maria Agostini Martini	P4.I.9	Erik Alexander Cunha Ferreira	P2.G.49, P2.G.8, P4.P.146, P5.P.152
Emilson Ribeiro Viana Junior	H.O3.2, P4.S.192, P6.R.120, P6.U.164, U.O3.3	ERIKA NASCIMENTO LIMA	G.O3.8, P6.R.119
Emmanuela M.A Sternberg	P4.K.79	ERIKA PATRICIA CHAGAS GOMES LUZ	P5.C.55
Emmanuela Sternberg	P1.G.103, P6.E.56, P6.R.130, P6.R.131	Erika Peterson Gonçalves	P4.K.70, P4.K.71, P4.K.72
Eneida de Paula	C.O1.2	Erik Bakkers	P3.C.69
Enrico Fava	P5.Q.169	Erik Lindgren	O.O1.1
Eralci Moreira Therézio	P1.F.55, P3.J.151, P6.E.67	Erivan Pereira da Silva Júnior	P5.P.148
Ercules Epaminondas de Sousa Teotonio	P1.F.31	Ernando Campos Ferreira	P5.C.46
Erenilton Pereira Silva	P3.H.106	Ernesto Chaves Pereira	P3.H.100, P4.I.9
Erica Gabrielle Capistrano Lins	P5.C.55	Ernesto David Gonzalez	T.O3.2
Érica Lima de Oliveira	P4.I.5	Ernesto Jimenez-Villar	E.O3.3
Érica Signori Romagnoli	K.O3.4, P4.K.115	Ernesto Osvaldo Wrasse	P1.F.45
Erica Silva dos Santos Alves	P5.P.144	Eronildo Alves Pinto Junior	P5.S.176, Q.O1.5
Eric Cardona Romani	E.O1.1, P6.U.180	Esley Fernando Alves Lima	P2.T.192, P6.U.191
Eric Hossein Fontes	U.O2.1	Estela Melaré Ribeiro Dos Santos	P5.B.20, P5.P.137
Erick Nishio	P6.R.96	Ester Figueiredo de Oliveira	P5.C.93
Erick Piovesan	P5.C.102	Ester Riedner Figini Gerling	P3.H.104, P6.U.179
Erick Souza de Melo	N.O2.2	Eudes Ribeiro Silva	P4.I.4
Érick Stéfano Silveira Guerra	O.O3.4	Eurico Felix Pieretti	P2.T.123, P3.C.19
Erick Tadashi Manjone Vendramini	K.O2.2	Eurípedes A.S. Filho	P3.C.37
Erico Marlon Moraes Flores	P1.G.90	Euripedes Silva Junior	P.O1.2
Eric Perim	Q.O1.3	Evaldo José Corat	P3.O.189, P3.O.191,

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Evaldo Ribeiro	E.O1.2	Fabiana Villela Motta	P.O1.2, P1.G.111, P2.G.14, P2.G.49, P4.P.146, P4.P.154, P5.P.143, P5.P.151, P5.P.152, P5.P.154
Eva Lindh-Ulmgren	O.O1.1		
Evando Santos Araujo	P2.G.28, P3.H.127, P4.S.181, P4.S.182	Fabiane da Silva Lima	P4.P.143, P4.P.147, P5.P.144
Evandro Menassi Siqueira	O.O2.1	Fabiano Montoro	P1.N.131
Evandro Piva	P3.C.2	Fabiano Rafael Praxedes	H.O3.5, P3.H.135, P3.H.144
Evans Paiva da Costa Ferreira	K.O3.5, O.O3.2, O.O3.3, O.O3.4, P2.O.97, P2.O.98, P4.I.39	Fabiano Severo Rodembusch	F.O3.8
Everaldo Carlos Venancio	I.O1.6, P4.K.64, P4.S.162, P5.S.197	Fabien Durola	P1.F.34
Everlin Carolina Ferreira da Silva	P2.M.80	Fábio Augusto de Souza Ferreira	P2.T.185, T.O2.1
Everson do Prado Banczek	P3.J.170		P5.E.118, P5.E.121, P5.E.122, P6.E.59
Everton Bonturim	G.O2.2	Fabio Augusto Pires	
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Ezequiel Costa Siqueira	P6.R.100	Fabio Coral Fonseca	D.O2.2, H.O3.6, I.O2.2, P3.H.118, P3.J.181, P6.D.2, P6.D.6
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Fábía Karine Andrade	P5.B.33, P5.C.55, P5.C.68	Fabio Correia Sampaio	P5.P.131, P5.P.132
Fabian Alberto Vega	P6.R.156	Fabio Emanuel Franca da Silva	P6.D.19, P6.D.22, P6.D.23
Fabiana Navas Reis	P4.I.7	Fabio Grabiell Figueiras	P2.G.62
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Fabiana Villela da Motta		Fábio Herbst Florenzano	P3.C.75
		Fabio Kurt Schneider	E.O3.4, I.O1.4
		Fabiola Costa	B.O1.1
		Fabíola G. Prezotti	C.O3.1
		Fabio Luis Zabotto	D.O1.1
		Fábio Machado Ardito	P1.F.75
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Fabio Santos da Silva	O.O1.2, O.O2.3, O.O3.2, O.O3.3, O.O3.4, P2.O.97, P2.O.98, P2.O.99	Felipe de Andrade De Andrade Silva	I.O3.3, U.O1.4
Fabio Simões de Vicente	P6.E.37	Felipe de Campos Carreri	P2.T.185, T.O2.1
Fabio Sobral Nogueira	P4.S.178, P5.S.189	Felipe Fernandes Barbosa	P6.U.163
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Fabrice Vallee	E.O1.3	Felipe Gollino	P6.R.92, P6.R.93
Fabrcia Assis Resende	P2.T.133	Felipe Jardell Leão Barbosa dos Santos	P5.C.84
Fabrcia Fândessan Costa Alves	P5.S.190	Felipe Lange Coelho	F.O3.8
Fabrcia Sousa Gonzaga	P1.N.130	Felipe Leon Nascimento Sousa	C.O3.2, E.O1.2, E.O3.1, E.O3.2, I.O3.2, P6.E.55, P6.E.60, T.O2.2
Fabrcio A. dos Santos	A.O1.2, P1.A.2, P3.C.7	Felipe Lipsky Gonzalez	P6.R.121
Fabrcio Benedito Destro	P3.J.168, P3.J.169, P3.J.182	Felipe Nascimento Araújo da Silva	P3.O.191
Fabricio C. L. Almeida	P4.I.40	Felipe Parise Garpelli	P2.O.105
Fabricio Cunha Andrade	P4.L.119	Felipe Pereira Rodrigues	P3.C.37, P3.C.96, P3.C.97, P6.U.162, P6.U.186, P6.U.195
Fabrcio de Souza Delite	C.O2.4	Felipe Pires Chaves	P4.S.180, P4.S.187
Fabricio de Souza Medeiros	P1.G.113	Felipe Silva Bellucci	P3.C.90, P4.I.40
Fabrcio Luiz Faita	P.O3.2	Felipe Silva Pinto	P2.O.96
Fabrcio Vilela Parreira	C.O2.4	Felipe Souza Miranda	P5.B.13
Fabricio Vinicius Andrade de Souza	P1.N.137	Felipe Souza Oliveira	P1.N.181
Fatih Toptan	A.O1.3	Felipe Terra Martins	P5.E.117
Faustino Reyes Gómez	P6.E.62	Felipe Vicente Paula Kodaira	P2.T.171
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Felipe Augusto Carvalho	P2.G.48	Fenelon Martinho Pontes	P1.G.98, P1.G.99, P6.R.126
Felipe Barbosa Soares	P1.F.26	Fengling Zhang	J.O3.3
FELIPE BOHN	P1.N.171, P3.C.86, P6.D.21	Fernanda Abrantes de Almeida	P.O3.6, P5.P.135
Felipe Conceição Santos	P2.T.194	Fernanda Andrade Tigre da Costa	K.O2.3, P4.K.88
Felipe Darabas Rzatki	K.O3.3		
Felipe Darriba Battaglin	P2.G.1		
Felipe da Silva Medeiros	P2.T.162		
Felipe David Lima	R.O2.4		

Fernanda Cabrera Flores Valim	I.O1.3	Fernando Lázaro Freire Jr.	J.O3.5
Fernanda Cunha Puosso	P5.B.14	Fernando Lázaro Freire Júnior	P5.C.108
Fernanda de Freitas Quadros	P5.B.34, P5.B.7	Fernando Lucas Primo	P3.C.55, P3.C.56
Fernanda Dias da Silva	P3.C.50	Fernando Luis de Araujo Machado	P1.G.95, P1.N.154, P4.P.153
Fernanda Lanzoni Migliorini	P4.S.174, P5.E.120	Fernando Menegatti de Melo	P6.E.76
Fernanda Martins Queiroz	P3.O.197	Fernando MODESTO OLIVEIRA BORGES	P.O1.2
FERNANDA MENEZES	P4.I.25	Fernando Nunes da Silva	P2.T.152
Fernanda Moreira Marques	P5.B.11	Fernando Oliveira Souza	P5.P.151
FERNANDA ROBERTA MARCIANO	B.O1.2, B.O3.1, C.O2.3, K.O1.2, P5.S.195	Fernando Piazzolla	D.O2.2
Fernanda Silva Soler	P4.I.3	Fernando Raul Cuevas	P6.E.33
Fernando A. Castro	F.O1.1	fernando sabino fonteque ribeiro	P2.T.157
Fernando A. G. da Silva Jr.	I.O1.2	Fernando Sato	F.O3.6, P1.F.41
Fernando Alvarez	U.O2.3	Fernando Sergio Okimoto	P6.R.153
Fernando Augusto de Oliveira	P3.C.44	Fernando Sousa Rocha	P1.N.153
Fernando B. Dias	F.O3.4, P4.I.34	Fernando Storti	P3.H.145
Fernando Carlos Giacomelli	P3.C.44, P3.C.50	Fernando Volpi Oliveira	P2.T.158, P2.T.159
Fernando Carvalho Silva	P5.C.71, P5.C.95	Fidel Guerrero Zayas	P3.H.123
Fernando C. Ferraz	O.O1.1	Filipe Camargo Dalmatti Alves Lima	P1.F.28, P1.F.78
Fernando C. Giacomelli	P5.C.114	Filipe Dione Souza Gorza	P2.T.167, P2.T.169, P3.C.58, P3.C.66, P4.S.191, P4.S.195, P5.C.72, P5.C.81, P5.C.82, P5.C.85
Fernando de Matos Borges	P4.K.48, P4.K.49	Filipe Habitzreuter	P3.C.31, P3.C.32
Fernando Ely	F.O2.3, P1.F.60	Filipe Leoncio Braga	P1.G.103, P6.E.56, P6.R.130, P6.R.131
Fernando Fernandes	O.O3.2	Filipe Leôncio Braga	P4.K.79
Fernando Ferreira Fernandez	O.O1.2, O.O2.3, O.O3.1, O.O3.3, O.O3.3, O.O3.4, P2.O.97, P2.O.98	Filipe Martel de Magalhães Borges	P.O3.2, P4.P.137, P5.P.136
Fernando Galembeck	ML.1	Filipe Rogerio de Souza Quirino	P1.N.184, P2.G.54, P2.G.55, P6.R.154
Fernando Gasi	P5.B.13	Filipe Samuel Silva	C.O2.1
Fernando Gomes Souza Júnior	P3.C.70	Filipe Viana Ferreira	P2.T.177
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Fernando Henrique Cristovan	P1.G.100, P1.G.101, P5.B.25		
Fernando Iikawa	E.O3.5, U.O3.4		

Filippe de Carvalho Bernardino	P6.E.84	Franciné Alves Costa	P1.A.8, P1.N.183, P1.N.186, P3.J.178
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Flávia Aparecida Resende	P3.C.6	Francine Perri Venturini	A.O3.2, P1.A.1
Flavia Cristina Camilo Moura	P1.G.104, P1.G.105	Francini Aline Belz Hesse	P1.N.148
Flávia de Medeiros Aquino	P6.D.19, P6.D.22, P6.D.23	Francisca Geidilany Saraiva de Olivera Frutuoso	P.O1.4
Flávia Gontijo da Silva	C.O2.2	Francisca Pereira de Araújo	P3.C.25, P5.S.195
Flávia Viana Avelar Dutra	B.O1.3, P6.U.171	FRANCISCO ALENCAR MIRANDA	P5.P.157
Flávio Andrade Faria	K.O2.1	francisco alexandre mariano	P2.G.64, P2.G.67
Flavio C Vicentin	E.O1.1	Francisco Anderson Sousa Lima	P3.H.149, P3.J.159, P3.J.160
Flavio Feres	E.O1.2, E.O2.1	Francisco Antônio Rocco Lahr	P4.K.51
Flávio Garcia	P5.C.96	Francisco A.S. Silva	P6.U.161, P6.U.196
Flavio Leandro Souza	J.O3.4, J.O3.5, J.O3.6, P3.H.101, P4.K.54	Francisco Bolivar Correto Machado	P6.R.145
Flávio Makoto Shimizu	C.O2.1, F.O2.1, P1.F.15, U.O2.3	Francisco Carlos Barbosa Maia	E.O1.1, E.O1.2, E.O2.1, E.O3.6
Flávio Paulo Milton	D.O1.1	Francisco Carlos Lavarda	P1.F.41
Florencia Montini Ballarin	S.O3.1	Francisco Carlos Serbena	P5.B.8
Floriano Guimarães Neto	P5.B.18	Francisco Chagas Marques	P2.T.131, P2.T.150
Francesco Fracassi	P2.T.130	Francisco de Assis Rodrigues Pereira	P2.T.166
Francesco Marafatto	L.O3.1	Francisco Eduardo Gontijo Guimarães	P4.I.35
Franciana Pedrochi	P2.T.148, P5.B.18, P6.E.48, P6.E.54	Francisco Eroni Paz dos Santos	P2.G.54, P2.G.55, P2.G.60
Franciani Sentanin	P4.I.15, P4.I.2, P4.I.43	Francisco Ferreira Sousa	P1.F.39, P1.F.56, P1.F.72, P1.F.75, P2.G.56, P5.C.73, P5.C.74
Franciele de Matos Morawski	P3.C.87	Francisco José Almeida Loureiro	D.O1.3, P3.H.118, P6.D.11
Franciele Renata Aparecida Moraes	P2.O.120	Francisco José Moura	P3.C.85
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Francielle Rodrigues Gomes Stelo Orue	P2.G.27		

Francisco Klebson Gomes dos Santos	P4.K.56, P4.K.57
Francisco Lopes da Silva Filho	P3.C.93, P5.C.105, P5.C.110, P5.C.111, P5.C.112
Francisco Marcelo Silva	P5.P.127
Francisco Marcone Lima	P2.T.192
Francisco Nivaldo Aguiar Freire	P2.T.192, P6.U.191
Francisco Nobuo Tabuti	D.O2.2
Francisco Nunes de Souza Neto	P3.C.9, P4.S.166, P5.B.6, P5.P.137
Francisco Rolando Valenzuela Diaz	P4.K.62
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Maryline Guilloux-Viry	P.O3.3, P4.P.157	Matheus Zorzoli Krolow	P6.U.188
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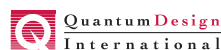
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