

7th Brazilian MRS Meeting

VII Encontro
SBPMat



Guarujá 2008
28 set / 2 out



PROGRAM BOOK

Guarujá • Brazil
2008

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WELCOME ADDRESS

Dear Participants,

Following the past Meetings of the Brazilian Materials Research Society (SBPMat) held at Rio de Janeiro (2), Florianópolis, Foz de Iguaçu, Recife and Natal, the 7th Meeting takes place at Guarujá, São Paulo State.

The 7th Brazilian MRS Meeting includes 9 plenary lectures and 14 symposia with invited lectures, oral communications and poster presentations. Nearly 1500 abstracts were submitted to the different symposia by researchers from all over the country and abroad.

You will have the opportunity to attend sessions and meet colleagues from several materials science fields, including hybrid organic-inorganic multifunctional materials, polymeric nanocomposites for packaging, mechanical properties of surfaces/thin films/coatings, powder processing of novel materials, electrochemistry of nanostructured and biological materials, theoretical and experimental advances in the development of novel materials, nanomaterials and nanotechnology applied to biotechnology and agriculture, electroceramics, applications of lasers in materials processing, microanalysis, high resolution electron microscopy, electron microscopy at the industry, and micro/nanometrology.

Welcome to the 7th Annual Meeting of the Brazilian Materials Research Society. We did our best to offer you an opportunity to attend an excellent scientific event as well as to have a pleasant time during your stay in Guarujá.

Aldo Craievich, Reginaldo Muccillo and Osvaldo Novais de Oliveira Jr.
Meeting Chairmen

MEETING CHAIRMEN

General Chairmen: Aldo Craievich, IF-USP and Reginaldo Muccillo, IPEN
Program Chairman: Osvaldo Novais de Oliveira Jr, IFSC-USP

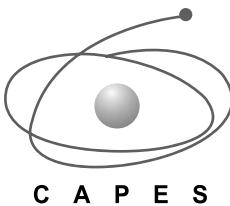
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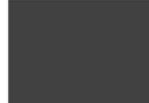
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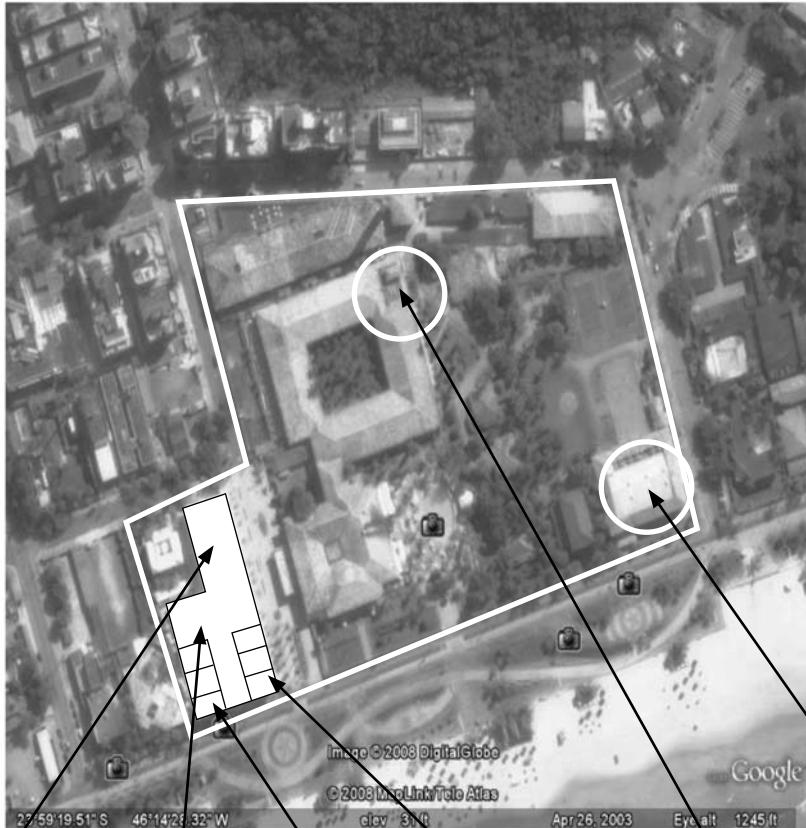


TRUMPF



SITE MAP

VII Meeting of the Brazilian MRS - Layout of Casa Grande Hotel



E800
(Plenary
lectures)

Posters,
stands
coffee breaks

E120D,
E120E,
E80F

E100A,
E100B,
E100C

Tupi,
Tapuia

Leopoldina

SCIENTIFIC PROGRAM

	Sept. 28 Sunday	Sept. 29 Monday	Sept. 30 Tuesday	Oct. 1 Wednesday	Oct. 2 Thursday	
08:30 - 09:20	Registration	Plenary lecture Alexandra Navrotsky	Plenary lecture Brian Derby	Plenary lecture Gehan Amaratunga	Parallel symposia	
09:20 - 10:10		Plenary lecture Gero Decher	Plenary lecture Gernot Kostorz	Plenary lecture Enrico Traversa		
10:10 - 10:30		Coffee break				
10:30 - 12:30		Parallel symposia	Parallel symposia	Parallel symposia		
12:30 - 14:30		Lunch				
14:30 - 16:30		Parallel symposia	Parallel symposia	Parallel symposia		
16:30 - 18:30		Poster session	Poster session	Poster session		
18:40 - 19:30	Opening session	Plenary lecture Agusti Sin	Plenary lecture Fernando Galembeck	Plenary lecture Fernando Rizzo		
20:30		Micromat 20 years	Meeting dinner			

SOCIAL PROGRAM**September 28, Sunday****18:40 - 20:00** Meeting opening

-Welcome address and presentation of the USP Choral Ensemble, Auditorium E800

-Welcome drink, Swimming pool area

September 30, Tuesday**20:30 - 21:30** Meeting Dinner, Salão Nobre (*)**21:30 - 24:00** Live music party, Salão Nobre.

(*) Cost not included in the registration fee.

PLENARY LECTURES**E800 Room****Plenary 1 - Energetics of oxide nanomaterials**

September 29th, Monday - 08:30 – 9:20

Alexandra Navrotsky

NEAT ORU & Thermochemistry Facility, University of California at Davis, Davis, U.S.A.

Plenary 2 - Rational design of LBL-based materials: toward soft matter devices

September 29th, Monday - 09:20 – 10:10

Gero Decher

Institute Charles Sadron, Strasbourg, France

Plenary 3 - The consequences of air pollution and possible materials science solutions

September 29th, Monday – 18:40 – 19:30

Agusti Sin

Pirelli & C. Eco Technology S.p.A., Italy

Plenary 4 - Mechanical properties of metal nanowires and nanoporous foams

September 30th, Tuesday – 08:30 – 09:20

Brian Derby

University of Manchester, United Kingdom

Plenary 5 - Nanostructure and properties of materials

September 30th, Tuesday – 09:20 - 10:10

Gernot Kostorz

ETH Zurich, Switzerland

Plenary 6 - A new model for dielectric charging and electrostatic adhesion

September 30th, Tuesday – 18:40 - 19:30

Fernando Galembeck

Instituto de Química, Unicamp, Brazil

Plenary 7 - Nanocomposites for photovoltaic energy harvesting

October 1st, Wednesday – 8:30 - 9:20

Gehan A. J. Amaralatunga

Cambridge University, United Kingdom

Plenary 8 - Materials for a sustainable development: The key role of nanostructure

October 1st, Wednesday – 9:20 - 10:10

Enrico Traversa

Università di Roma Tor Vergata, Italy

Plenary 9 - A prospective study of advanced materials

October 1st, Wednesday – 18:40 - 19:30

Fernando Cosme Rizzo Assunção

PUC-Rio, Brazil

SYMPOSIUM ORGANIZERS

A - New hybrid organic-inorganic multifunctional materials	Eduardo Nassar (Unifran, Franca, SP) Paulo Sérgio Calefi (Unifran, Franca, SP) Shirley Nakagaki (UFPR) Sidney Ribeiro (Unesp, Araraquara)
B - Polymeric nanocomposites for packaging and other applications in engineering	Leonardo Bresciani Canto (IMA, UFRJ) Leila Lea Yuan Visconte (IMA, UFRJ) Maria de Fátima Vieira Marques (IMA, UFRJ) Maria Inês Bruno Tavares (IMA, UFRJ) Marcos Lopes Dias (IMA, UFRJ)
C - Mechanical properties of surfaces, thin films and coatings	Maurício Lepienski (UFPR) Sérgio Camargo (COPPE, UFRJ) Carlos Eugênio Foerster (UEPG)
D - Powder processing of novel materials	Antonio Eduardo Martinelli (UFRN) Aloísio Klein (UFSC)
E - CIAM Scientific Meeting	Leandro Tessler (Unicamp) Nicola Spaldin (UCSB, USA)
F - Electrochemistry of nanostructured and biological materials	Frank Crespilho (UFABC), Ana Flavia Nogueira (Unicamp), Koiti Araki (IQ-USP) Ivo A. Hummelgen (UFPR)
G - Theoretical and experimental advances in the development of new materials	Elson Longo da Silva (Unesp, Araraquara) Julio Ricardo Sambrano (Unesp, Bauru) Ieda Maria Garcia dos Santos (UFPB, João Pessoa) Paulo Roberto Bueno (Unesp, Araraquara) Marcelo Ornaghi Orlandi (Unesp, Ilha Solteira)
H - Nanomaterials and nanotechnology applied to biotechnology and agriculture	Luiz H.C. Mattoso (Embrapa) Cauê Ribeiro (Embrapa) Nelson Durán (Unicamp)
I - VI Brazilian Symposium on Electroceramics	Reginaldo Muccillo (IPEN) José A. Varela (Unesp, Araraquara) José A. Eiras (UFSCar)
J - Applications of lasers in materials processing	Milton Sergio Fernandes de Lima (IEAv) Wagner de Rossi (IPEN)
K - Microanalysis (Micromat)	Marcos Vasconcellos (UFRGS)
L - High resolution electron microscopy (Micromat)	Antônio Ramirez (LNLS) Edson Roberto Leite (UFSCar) Luciano Andrey Montoro (LNLS) Paulo F. P. Fichtner (UFRGS)
M - Electron microscopy at the industry (Micromat)	André Pinto (IME)
N - Micro and nanometrology (Micromat)	Carlos Achete (UFRJ/Inmetro)

SCIENTIFIC SCOPE

SYMPORIUM A **New hybrid organic-inorganic multifunctional materials**

Research in hybrid materials has experienced a 14% annual growth in published papers in recent years with increasing interest from a wide range of industries. Hybrid materials have currently a great impact on numerous developments including nanotechnology. This symposium is aimed at exploring various types of materials, including synthesis, characterization and applications. It will be a suitable starting point for those interested in the field. In the past few years, an increasing quantity of materials have been developed, with diverse chemical compositions and shaped as powders, monoliths, thin films, membranes, or fibers. These novel materials offer a high degree of versatility in terms of structure, texture, and functionality. The sol-gel processing of multifunctional hybrids has opened new avenues for research in advanced materials. The hybrid materials are promising for a host of applications including micro-optics and photonic devices, microelectronics, energy, environment, functional and protective coating, biomaterials, environmentally responsive materials and biomicrofluidics.

The topics covered in the Symposium include:

- Hybrid materials from silica and other organic-inorganic hybrids
- Nanoparticles and hybrid films obtained with sol-gel processing
- Hybrid Biomaterials
- Composites based on clay
- Applications of hybrid materials in
 - o Waveguides
 - o Catalysis
 - o Glasses
 - o Solar cells
 - o Adsorbing systems

SYMPORIUM B **Polymer nanocomposites for package and other engineering applications**

The symposium will cover the synthesis, processing and characterization of nanocomposite polymeric materials for package and other engineering applications, including the following topics:

- Mineral (clay, talc, silica, and calcium carbonate) nanofilled thermoplastics, biopolymers and thermosets.
- Polyhedral oligomeric silsesquioxanes (POSS) nanofilled thermoplastics and thermosets.
- Thermoplastics filled with carbon nanotubes, metal nanoparticles and metal nanowires.
- Rubbers and elastomeric compounds with mineral nanofillers and cellulose nanofibers.

The symposium will include conferences, oral

presentations and poster sessions with the goal of providing a technical-scientific forum in the field.

SYMPORIUM C **Mechanical behavior of thin films, surfaces and coatings**

Specific methodologies are necessary to determine the mechanical and tribological properties of thin films, coatings and modified surface layers. These methodologies are based on the contact mechanics at the micro and nano scales. Indentation tests are employed to determine hardness, elastic modulus and scratch resistance. Brittle materials are subject to fracture, thus making it difficult to interpret the data from mechanical tests. Indentation tests are normally easy to perform but the interpretation of the results is not straightforward due to the triaxial stress distribution in the contact region. The study of mechanical properties in nanoscale is an area of increasing interest.

This symposium will be a forum for discussion of the mechanical behavior of materials at small scales and of methodologies for mechanical characterization. The interaction of researchers from different areas is expected to further the knowledge on the mechanical behavior at small scales.

The topics of the symposium include:

- Mechanical characterization of thin films, coatings and modified surfaces: hard materials, polymers, ceramics, metals, composites, biomaterials etc.
- Nanoindentation, microhardness, scratch resistance, viscoelastic properties and toughness of thin films, coatings and surface layers.
- Nanotribology and mechanical characterization by atomic force microscopy.
- Residual stress
- Adhesion of films and coatings.
- Fracture behavior induced and analyzed by contact mechanics.
- New techniques for the mechanical characterization of thin films, coatings and surface layers. Limiting factors for application.
- Numerical methods to simulate the mechanical properties of thin films and coatings.
- Theoretical methods and simulation in contact mechanics.

SYMPORIUM D **Synthesis, processing, characterization and applications of particulate materials**

Powder technology has continuously advanced in both scientific and industrial grounds. The constant progress in powder synthesis and processing plays an important role in widening the range of applications of

particulate materials, especially in major worldwide economic sectors. Both traditional and innovative particulate materials have largely contributed to the industrial development of numerous areas including building and construction industry, automotive and electro-mechanic components, structural and technical ceramics, electronics, appliances, and pigments, to name a few. The performance of particulate components is determined by a combination of aspects, mainly the nature and properties of starting materials, synthesis routes and fabrication methods, all employed in the production of engineering devices. In this context, the main objective of this symposium is to promote a multidisciplinary environment suitable for the presentation and information exchange regarding recent advances and innovations on the synthesis, processing, characterization and applications of powdered materials and devices. Emphasis will be given to the current and prospective applications of particulate materials.

The scientific program of the symposium includes invited lectures in addition to oral and poster presentations covering the following areas associated with particulate materials:

- Applications of particulate materials
- Advances in powder synthesis and production
- Powder shaping
- Sintering
- Thermal and thermochemical surface treatments applied to sintered materials
- Microstructure and microstructural modeling of powdered and sintered materials
- Characterization and properties of powdered materials
- Alloy Design and Development
- Intermetallics, ceramics and composites
- Novel materials and emerging areas
- Functionally graded materials (FGMs)
- Micro, meso and nanoporous materials
- Catalytic materials
- Cementing materials
- Use of particulate residues

SYMPORIUM E CIAM scientific meeting

The Inter-American Materials Collaboration (CIAM) is perhaps the largest materials research cooperation program between countries of the Americas. It fosters scientific exchange between researchers from nine countries in a wide range of areas of Materials Science and Engineering. In this scientific meeting results of CIAM researchers will be presented and discussed. In addition, as in previous occasions (Cancun, Mexico 2005 and Santa Maria, Colombia 2006), the symposium will include invited talks of wide interest to the materials research community. In addition to the invited and contributed talks, there will be a poster session for participating CIAM students and postdocs to share their results. A prize of support for participation in an up-coming ICMR event will be awarded by the International Center for Materials Research (ICMR) at UC Santa Barbara.

SYMPORIUM F Electrochemistry of biological and nanostructured materials

The understanding of low dimensionality systems has been a challenge for the scientific community. In this context, electrochemistry has played an important role for understanding surface phenomena, charge transport and charge transfer, in addition to the application in sensors and devices for storage and energy conversion. The advent of nanobioelectrochemistry has opened up new ways to study enzyme immobilization, proteins and DNA. The aim of this symposium is to gather researchers that apply electrochemistry for studying novel nanostructures and biological materials. The focus will be on: low dimensionality systems (nanostructured films, single devices, solid electrolytes, charge transport in nanostructured materials, supramolecular systems, spectroelectrochemistry, sensors, quantum dots, nanotubes and nanowires, modified electrodes with nanostructured materials, simulation, STM, SECM AFM applied to electrochemical systems); conversion and energy storage (nanocatalysts for fuel cells, electrochemical energy conversion devices, molecular electrocatalysis, nanostructures in the catalytic reform of fuels, photovoltaic cells, nanostructured semiconductors, batteries, hydrogen generation and storage) and nanobioelectrochemistry (enzyme immobilization, biocatalysis, biological fuel cells, biosensors, bioelectrochemical devices, electrochemistry of biological molecules, charge transfer in biological systems, bioinorganic systems, biomimetic charged interfaces and biological imaging).

SYMPORIUM G Theoretical and experimental advances in the development of new materials

This symposium aims at discussing the impact of joint theoretical/experimental in order to improve the understanding of intrinsic and extrinsic solid state properties, such as ferroelectric, dielectric or conducting and photoluminescent properties.

The idea is to promote discussions that involve fundamental and technological aspects, leading to a better comprehension and prediction of the properties of devices based on technological materials.

We invite participants for the following areas:

- Computational simulation applied to understanding the properties of nanostructured materials, surfaces and bulk;
- Inorganic oxides for electronic devices;
- Theoretical analysis on energetic and dynamic factors in technological materials;
- Development and application of state-of-the-art methodologies (classical, statistics and quantum) to new materials;
- Molecules-surface interactions and reactions;
- Influence of synthesis on the extrinsic properties controlled by the grain boundary or by the material structure;

- Materials with potential applications for generation of energy and protection of the environment;
- Nanomaterials with differential extrinsic properties – theoretical and experimental aspects.

SYMPOSIUM H

Nanomaterials and nanotechnology applied to biotechnology and agriculture

The great development of nanoscience and nanotechnology is mainly marked by its inter and multidisciplinary nature, whereby nanomaterials are developed for applications in various areas such as physics, chemistry, engineering, biotechnology and agriculture.

From the many areas at the frontier of science and technology, developments associated with biotechnology and agriculture are crucial for developing nations owing to the their impact on food production, renewable sources of energy and materials for such renewable sources. The symposium will be a multidisciplinary a forum for discussing the cross-relationships between nanomaterials and agriculture and biotechnology. Emphasis will also be placed on the environmental and sanitary impact of nanomaterials, in order to discuss possible social impacts of the use of nanotechnology.

The topics to be covered include:

- Nanomaterials, nanostructures and nanocomposites from renewable sources;
- Bio-inspired nanomaterials;
- Nanomaterials and nanostructures for environmental remediation;
- Sanitary aspects of nanostructures and applications in anti-microbial systems;
- Nanostructured sensors for applications in food, water and environmental control;
- Nanostructured biosensors;
- Advances in bio-nanomaterials;
- Nanostructures for controlled release of drugs, agro-chemicals and others;
- Separation membranes and thin films for food packaging;
- Toxicology of nanomaterials and nanostructures;
- Environmental impacts of nanomaterials.

SYMPOSIUM I

6th Brazilian Eletrocermamics Symposium

Electrocermamics is an important inter-disciplinary research area involving mainly physicists, chemists and engineers. Electrocermamics is considered 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 with actual technological applications and enhanced properties offer a broad field of research opportunities.

This symposium will be a forum for all researchers 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 exchange of experiences and discussions among researchers. Several features of R&D on electroceramics, including novel processing and experimental procedures will be considered.

The main topics to be covered are

- Synthesis and Processing
powder synthesis, thin and thick film processing and characterization, self-supported structures, multilayer structures, heterostructures, nanotechnology, sintering and microstructure development, grain boundary engineering, ceramic and polymer ceramic matrix composites.
- Characterization
dc and ac standard electrical measurements, electrochemical impedance spectroscopy, electrical and magnetic ceramics, ionic-electronic mixed condutors, transport phenomena and diffusion, defects in electroceramics, microstructural analysis by X-ray diffraction, neutron diffraction, electron microscopy, Raman spectroscopy, scanning probe microscopy, etc.
- Applications
dielectrics, ferroelectrics, ferroelectric memories, piezoelectrics, non-lead electroceramics, magnetic ceramics, ceramic superconductors, colossal magnetoresistors, spintronics, sensors and actuators, transducers, varistors, PTC and NTC, electroceramics for solid oxide fuel cells, solid state batteries, ceramic membranes, photoluminescent ceramics, electroceramics in catalysis, etc

SYMPOSIUM J

Applications of lasers in materials processing

The Symposium on Applications of Lasers in Materials Processing will gather experts from academia and industry for exchanging information and experience on research and innovation on the use of lasers to process materials. The applications of lasers in materials science and engineering have grown recently, with new research groups and graduate courses dedicated to this topic. In Brazil, the economic role of lasers is huge, particularly in some manufacturing processes and dentistry. The Symposium will cover a broad range of topics, from fundamental aspects of the laser-matter interactions to state-of-the-art laser applications in manufacturing, materials analysis and biomedicine. It is expected that the Symposium will serve as a suitable forum for networking among materials research groups, in addition to stimulate technology transfer among the participants.

SYMPOSIUM K

Microanalysis (Micromat)

Microanalysis is concerned with the elemental or phase identification and quantification of micrometric regions of materials. This meeting focuses on

theoretical and experimental procedures related to the techniques SEM/EDS/WDS, TEM/EDS/EELS, PIXE/EDS, SEM/EBSP.

Quantitative microanalysis is an important tool for the characterization of metals, ceramics and minerals. Equipment used for quantification (MEV, EPMA, PIXE e MET) can also be used for image acquisition in modes such as secondary electron imaging, backscattering electron imaging and X-ray maps. Compositional analysis converts the number of measured photons to elemental concentration. This transformation requires the knowledge of several physical parameters, including stopping power of electrons or ions, X-ray absorption in matter, secondary fluorescence, ionization cross section for different electronic levels, etc. Also, experimental parameters and sample conditions must be taken into account.

Software and methodologies developed for determination of concentrations of elements or phases in materials from the experimental data will be discussed in this symposium. Quantification techniques based on matrix correction and image analysis will be included (optical or electronic images).

The adequate application of these techniques for analytical problems in physics, engineering, geology and industry will require knowledge of the fundamental physical parameters for a precise data analysis.

Topics:

- Data treatment in microanalysis EDS/(TEM and SEM) for quantification of elements;
- Determination of fundamental parameters in microanalysis with X-rays and ions (cross section ionization, transition probabilities, line assymetry, escape peaks etc);
- Applications of microanalysis;
- Phase quantification using optical and electronic images (BEI/EBSP);
- Characterization of electronic structure with emission lines originating from transitions in the valence band;

SYNOPSIS L High resolution electron microscopy (Micromat)

The High Resolution Electron Microscopy Techniques, including High Resolution Transmission Electron Microscopy (HRTEM), High Resolution Scanning Transmission Electron Microscopy (HRSTEM), and High Resolution Scanning Electron Microscopy (HRSEM), are among the most powerful tools for materials characterization at the nano and atomic scales, which have become indispensable for nanoscience and nanotechnology. Their possible combination with other techniques such as electron diffraction, X-ray spectroscopy, electron energy loss spectroscopy and quantitative image analysis make electron microscopy a powerful characterization technique.

High Resolution Transmission Electron Microscopy (HRTEM), Scanning Transmission Electron Microscopy (HRSTEM), and Scanning Electron Microscopy (HRSEM) have been extensively applied to determine morphological, structural, chemical, and electronic

properties of materials from the nanometric to the sub-angstrom ranges. Conventional and high resolution imaging combined with electron diffraction put electron microscopy among the most advanced characterization techniques for crystalline as well as short-range order materials. With the assistance of energy dispersive X-ray spectroscopy (XEDS) and electron energy loss spectroscopy (EELS), the transmission electron microscope becomes a versatile and comprehensive tool for characterizing the chemical and electronic properties at the nanoscale. In recent years, a number of novel developments have been made in HRTEM for nanotechnology, such as: in-situ experiments to study dynamical processes at the nanoscale, correlating the materials physical properties and structures; holographic imaging of electric and magnetic fields; quantitative chemical mapping at sub-nanometer resolution and methodologies for aberration-corrected imaging based on hardware and/or software for reconstruction of the output wave, which enhances resolution to sub-angstrom level. This symposium will cover areas of high resolution electron microscopy dedicated to materials characterization as well as instrumentation or software development, with the following topics.

- Structural characterization of nanostructured materials by HRTEM, HRSTEM, and HRSEM;
- Structural studies of interfaces and defects;
- Materials characterization by nanoanalysis techniques (XEDS and EELS);
- Quantitative high resolution transmission electron microscopy;
- Instrumentation and software development;
- In-situ experiments;
- Applications of aberration-correction methodologies;

SYNOPSIS M Electron microscopy at the industry (Micromat)

Many microscopy techniques are now mature and widely used by the industry and researchers on technologies applied to industries. In this Symposium, experts in microscopy will gather and share their experiences in materials science.

Various industrial segments employ microscopy techniques for developing new materials, in optimizing materials for specific applications, as well as in quality control and in failure analysis of materials. In addition, efforts have been made to seek materials that meet the complex, growing demand from industry. In this Symposium, professionals from both the academic and industrial sectors will contribute to foster integration and joint search for industrial innovation. Among the various techniques to be discussed in the Symposium are Optical Microscopy, Digital Image Processing, Quantitative Microscopy, Scanning Electron Microscopy, Transmission Electron Microscopy, Scanning Probe Microscopy and their associated techniques.

The scope of the Symposium is rather broad and includes:

- recent, actual cases of failure analysis
- use of digital image processing in quality control

- influence of materials microstructure on industrial applications
- microstructural control of next generation materials to be used at high temperatures
- microstructural control of materials for electronic applications.

SYMPOSIUM N
Micro and nanometrology
(Micromat)

Micro and nanometrology play a crucial role for the production of novel materials and devices (at the micro and nanoscales), where a high degree of accuracy and reliability is required. They involve not only measurements of length and size, but also force, mass, electrical properties, etc. Nanometrology is essential for the progress of nanotechnology in order to allow for the precise control of properties of varied objects. For the application of nanometrology, standards must be established for the measurements (including reference samples), in addition to scientific instrumentation, because the methods employed for measuring properties on conventional materials may not be applicable to nanostructures. New physical phenomena emerge when the dimensions of a given system reach the nanoscale, which requires knowledge and ability for measurements be performed. The main techniques for such measurements are atomic force microscopy (AFM), scanning electron microscopy (SEM), transmission electron microscopy (TEM) and focused ion beam microscopy (FIB). In addition to the tools and measuring methods, one has to establish unquestionable guidelines for interpreting the measurements in a practical way. Nanometrology is thus a promising field for basic sciences and may offer new opportunities for developing novel products. The most used techniques in micro and nanometrology mentioned above are increasingly accessible to researchers in universities, research centers and companies. The combination with scanning tunneling microscopy (STM), X-ray diffraction and fluorescence, Raman and infrared spectroscopies is essential for solving problems in various areas.

The topics covered in the Symposium are:

- Microscopy in 3D
- Microscopy and energy

- Reference Materials
- Microscopy and the environment
- Micro and nanometrology

ELECTRON MICROSCOPY COURSES
(Micromat)

Electron microscopy techniques are becoming increasingly important in research and development. The target audience of these courses is the group of people in need of further details on electron-matter interaction, on the relationship of beam-parameters to image quality and analysis reliability, and on the influence of sample preparation on these results. Theoretical courses on basic principles of scanning electronic microscopy, on microanalysis in TEM and SEM, sample preparation for TEM and SEM and image analysis will be held.

- SEM for beginners is a 3h course, about SEM instrumentation, electron-matter interaction, digital image formation, electron beam control, differences between secondary and backscattered electron images, contrast, brightness, spot size and astigmatism.
- Microanalysis for beginners is a 2h course on qualitative and quantitative microanalysis, spot analysis, line scans and elementary maps, with emphasis on the pitfalls in spectrum interpretation.
- Microanalysis in the TEM (2h) has the Microanalysis for beginners (or the MEV for beginners held in Buzios 2007) as a prerequisite and shows the comparison between EELS and EDX analysis in TEM. Introduction to the theory and examples with GIF.
- Sample preparation for SEM and TEM (3h) using fracture, drying, milling, cutting, polishing, ion-milling, and coating.

Digital Microscopy, Image Processing and Analysis:
 Outline: · Digital Microscopy (the integration microscope- computer- digital image; automation in microscopy; auto-focus and extended focus; mosaic images; co-site microscopy); Image Processing (pre-processing techniques, background correction and noise reduction; detecting objects, segmentation techniques; post-processing, basic morphological operations); Image Analysis (obtaining quantitative information, measuring parameters, size, shape, texture and spatial distribution

ORAL SESSIONS (PT: PORTUGUESE / EN: ENGLISH)**SYMPOSIUM A****Novel hybrid organic-inorganic multifunctional materials****WEDNESDAY, OCTOBER 01 - E120D**

- 10:30 - 11:10 PA2 - EN - Highly dispersed metal oxides in porous and non porous matrices: A new strategy for development of chemically modified materials**
Yoshitaka Gushikem

- 11:10 - 11:30 A548 - EN - Organized multilayered mesoporous core-shell colloids with tailored chemical groups**
Alejandro Wolosiuk, Martin Hernan Marchena, Mara Granada, Horacio Troiani, Maria Jose Joselevich and Federico Williams

- 11:30 - 11:50 A613 - EN - Template effect on the formation of vanadium oxide nanostructures**
Guillermo González, Clivia Sotomayor-Torres and Eglantina Benavente

- 11:50 - 12:10 A637 - EN - Photocatalytic activity of NaTaO_3 and NaTaO_3 doped with Sm and La: effect of the synthesis route**
Arquímedes Cruz López, Odilón Vázquez Cuchillo and Leticia Torres Martínez

- 12:10 - 12:30 A501 - PT - Comparison of the cerium (IV) and cerium (III) ions effect on the anti-corrosion behaviour of a siloxane-PMMA based film on tin plate substrate**
Patricia Hatsue Suegama, Victor Hugo Sarmento, Idalina Vieira Aoki, Roseane N Diniz and Celso V Santilli

- 12:30 - 14:30 Lunch**

- 14:30 - 15:10 PA1 - EN - Influence of nanostructure on properties of organic-inorganic hybrid materials of technological interest**
Karim Dahmouche

- 15:10 - 15:30 A585 - PT - Protective action towards aluminum corrosion by a novel organic-inorganic silica based hybrid material**

Sílvia Tamborim Takeuchi, André Zuchetto Maissonave, Denise Schermann Azambuja, Edilson Valmir Benvenutti, Tânia Maria Costa and Leliz Ticona Arenas

- 15:30 - 15:50 A597 - EN - Clay modification by using PDPHs. Evaluation on HDPE hybrids final properties**
Fernanda Elena Monasterio, María Celeste Carrera, Eleonora Erdmann, Victor Jayme Roget Rodriguez Pita, Marcos Dias and Hugo Alberto Destefanis

- 15:50 - 16:10 A605 - PT - FeDETC incorporated in latex matrix as a NO controlled delivery system**
Rondes Ferreira Silva and Carlos Frederico Graeff

- 16:10 - 16:30 A513 - EN - Porous hybrid materials derived from metal containing polysiloxanes**
Michaela Wilhelm, Michael Adam and Georg Grathwohl

THURSDAY, OCTOBER 02 - E120D

- 08:30 - 09:10 PA3 - EN - NMR: a powerful tool to understand dynamics, conformation, and morphology of polymers in hybrid organic-inorganic nanocomposites**
Tito J. Bonagamba

- 09:10 - 09:30 A591 - EN - Bactericidal hydrogels composed by PVP/AgNP electrospun nanofibers to use as wound dressing**
Renata Fogaça, Vitor de Moraes Zamarion, Koiti Araki, Henrique Eisi Toma and Luiz Henrique Catalani

- 09:30 - 09:50 A567 - EN - Bacterial cellulose-clay bio-nanocomposites**
Gustavo Frigi Perotti, Hernane da Silva Barud, Sidney José Lima Ribeiro and Vera Regina Leopoldo Constantino

09:50 - 10:10	A627 - PT - Self-assembled geometries in glass surface monitored by AFM and luminescence probe <i>Ricardo Schneider, Ana Clara Raposo Salazar, Camila Afonso Ferreira Araújo and Petrus Santa Cruz</i>	12:30 - 14:30 Lunch
10:10 - 10:30	A614 - EN - Experimental and theoretical investigation on the structural changes caused by Alq3 photo degradation <i>Marco Cremona, Vanessa Luz Calil, Kelly Carvalho Teixeira, Yolanda Angulo Paredes, Flavia Pirola Rosselli, Welber Gianini Quirino and Cristiano Legnani</i>	14:30 - 15:10 PB3 - EN - Polypropylene-based nanocomposite - morphology and properties <i>Raquel Santos Mauler</i>
		15:10 - 15:30 B513 - EN - Synthesis of polypropylene/modified clay nanocomposites through Ziegler-Natta catalysts <i>Lidiane Aparecida Almeida, Kamilla Missiaggia Cruz and Maria Fátima Vieira Marques</i>

10:30 - 10:50 Coffee Break

SYMPORIUM B
Polymeric nanocomposites for packaging and other applications in engineering

MONDAY, SEPTEMBER 29 - TUPI

10:30 - 11:10	PB4 - EN - Polymer nanocomposites for gas barriers and membranes <i>Luiz Antonio Pessan</i>	15:50 - 16:10 B532 - EN - Ethical aspects of nanotechnology in materials science and engineering: an overview <i>Mitzi Hass Wakamatsu and Rafael Salomão</i>
11:10 - 11:30	B546 - EN - NMR application to the study of PHB/clay nanocomposite <i>Maria Inês Bruno Tavares, Mariana Bruno Rocha e Silva, Leonardo Augusto Moreira and Roberto Cucinelli Neto</i>	16:10 - 16:30 B567 - EN - Influence of organophilization on polythiophenes/montmorillonite composites <i>Rosa Maria Souto-Maior and Juliana Castro Macêdo-Fonsêca</i>
11:30 - 11:50	B537 - EN - Evaluation of elastic modulus distribution in polymer nano-composites <i>Norm Gitis, Ilja Hermann, Har Prashad and Maksim Kireitseu</i>	TUESDAY, SEPTEMBER 30 - TUPI
11:50 - 12:10	B540 - EN - DSC and XRD studies on crystallization of HDPE in HDPE/POSS composites <i>Estevão Freire, Luciane Calabria and Ricardo Vinicius Bof de Oliveira</i>	10:30 - 11:10 PB1 - EN - Development and processing of nanocomposites for several applications <i>Edcleide Maria Araujo</i>
12:10 - 12:30	B542 - EN - Nanostructure and rheological properties of epoxy network containing polyhedral oligomeric silsesquioxane (POSS) <i>Soraia Zaioncz, Karim Dahmouche and Bluma Guenther Soares</i>	11:10 - 11:50 PB2 - EN - Application of cellulose in rubber nanocomposites <i>Regina Celia Reis Nunes</i>
		11:50 - 12:10 B524 - EN - Study of properties of styrene-butadiene-styrene block copolymer and MWCNT composites prepared by extrusion processing <i>Lucas Gomes Pedroni, Maria Isabel Felisberti and Ana Flávia Nogueira</i>
		12:10 - 12:30 B568 - EN - Nanocomposite from Brazilian raw materials: organophilic clay / natural rubber <i>Guillermo Ruperto Martín-Cortés, Fabio José Esper, Adriana Almeida Silva, Wildor Theodoro Hennies and Francisco Rolando Valenzuela-Díaz</i>

12:30 - 14:30 Lunch**SYMPORIUM C**
**Mechanical properties of surfaces,
thin films and coatings****TUESDAY, SEPTEMBER 30 - E100B****14:30 - 15:10 PC1 - EN - Stress measurement
and mechanical testing of
titanium nitride films with
graded residual stresses**
*Roberto Martins Souza***15:10 - 15:30 C536 - EN - Mechanical and
tribological studies of DLC films
on stainless steel substrates**
*Lucia Vieira Santos, Vladimir Jesus
Trava-Airoldi, Gil Capote Rodriguez,
Luis Francisco Bonetti, Poliana
Alves Radi and Romina Paula de
Castro Costa Statuti***15:30 - 15:50 C624 - EN - Nanomechanical
and nanotribological
characterization of TiN
and TiC coatings deposited via
triode magnetron sputtering**
*Abel André Recco, Cristian Camilo
Viafara, André Paulo Tschiptschin and
Ailton Sinatora***15:50 - 16:10 C511 - EN - Investigating Al
substrate crystal orientation
influence on adherence of AlN
coating**
*Adilson Rodrigues da Costa, Flávio
Sandro Lays Cassino, Júlio Félix de
Miranda Coelho Pinto and Pierre-
Yves Jouan***WEDNESDAY, OCTOBER 01 - E100B****10:30 - 10:50 C645 - EN - Investigation of
mechanical properties in the
micro and nano scale by high
precision measurements of
combined normal and lateral
forces**
*Thomas Chudoba***10:50 - 11:10 C577 - EN - Mechanical
properties of REBa₂Cu₃O_{7-d}
superconductor single crystals
by depth-sensing indentation**
*Carlos Eugênio Foerster, Francisco
Carlos Serbena, Alcione Roberto
Jurelo, Alexandre Mikowski, Célia
Regina Carubelli, Adilson Luiz
Chinelatto and Carlos Maurício
Lepienski***11:10 - 11:30 C535 - EN - Nanomechanical
characterization of hybrid PEO/
SiO₂ coatings onto PVC films**
*Laura Alejandra Fasce and
Patricia María Frontini***11:30 - 11:50 C552 - EN - Nanoindentation
analysis within the elastic
regime of zirconia-
based materials for advanced
gas turbines**
*Eduardo Zúñiga Márquez, David
Torres Torres, Anthony Glynn
Evans, Carlos Gerardo Levi, Robert
Maxwell Mcmeeking, Gerardo
Trápaga Martínez and Juan Muñoz
Saldaña***11:50 - 12:10 C571 - EN - Nano and micro
indentation and scratch tests of
mechanical properties of
coatings and thin films**
*Norm Gitis, Ilja Hermann and
Suresh Kuiry***12:10 - 12:30 C507 - EN - Mechanical
deformation of InP native oxide
studied by nanoindentation**
*Clara Muniz Almeida, Rodrigo Prioli
and Fernando Agustín Ponce***12:30 - 14:30 Lunch****14:30 - 14:50 C525 - EN - Wear and surface
modification induced by
pin-on-disk tests in DC plasma
nitrided AISI 52 100 steel**
*Marcos Antonio Zen Vasconcellos,
Sirlon Mata, Márcio Farias Soares,
Cesar Henrique Wanke and Ruth
Hinrichs***14:50 - 15:10 C628 - EN - Friction and wear
maps of titanium alloy against
DLC films with different
hydrogen concentration**
*Polyana Alves Radi,
Lúcia Vieira
Santos, Luis Francisco Bonetti,
Gil Capote Rodriguez and
Vladimir Jesus Trava-Airoldi***15:10 - 15:30 C544 - EN - Deposition
of hard and adherent
DLC films on metallic
carbonitrided surfaces
for industrial applications**
*Vladimir Jesus Trava-Airoldi,
Luis Francisco Bonetti,
Gil Capote Rodriguez,
Evaldo José Corat,
Lucia Vieira Santos and
Polyana Alves Radi*

15:30 - 15:50	C549 - EN - Tribological study of the hybrid lubrication of DLC films with water and oils <i>Romina Paula de Castro Costa Statuti, Polyana Alves Radi, Lúcia Vieira Santos, Gil Capote Rodriguez, Luis Francisco Bonetti and Vladimir Jesus Trava-Airoldi</i>	11:10 - 11:30	C633 - PT - Analysis of the indentation response of elastic-plastic materials considering tip roundness <i>Sara Aida Rodriguez Pulecio, María Cristina Moré Farias and Roberto Martins de Souza</i>
15:50 - 16:10	C608 - PT - Influence of nitriding and TiAlN coating thickness on the mechanical properties of duplex treatment on H13 die steel <i>Ricardo Diego Torres, Paulo César Soares Júnior, Irionson Antônio Bassani and Carlos Maurício Lepieski</i>	11:30 - 11:50	C590 - PT - Analysis of pyramidal nano-indentation testing <i>Avelino Manuel da Silva Dias, Vania Regina Velloso Silva and Geralda Cristina Godoy</i>
THURSDAY, OCTOBER 02 - E100B			
08:30 - 09:10	PC2 - EN - Leonardo da Vinci: artist, engineer or scientist? <i>Daniel Tanaka</i>	12:10 - 12:30	C526 - PT - Alternatives in the analysis of instrumented indentation data to calculate residual stresses in TiN thin films <i>Carlos Eduardo Mady, Adriana Gómez, Roberto Martins de Souza and Deniol Katsuki Tanaka</i>
09:10 - 09:30	C591 - PT - Multilayer of titanium nitride and carbon nitride ultra thin films on steel: tribological and structural analysis <i>Monica de Mesquita Lacerda and Julio Miranda Pureza</i>	12:30 - 12:50	C612 - PT - Hard and intrinsic stress free amorphous carbon films obtained via ion irradiation <i>José Ricardo Galvão, Daniel Lorscheitter Baptista, Carlos Maurício Lepieski and Fernando Claudio Zawislak</i>
09:30 - 09:50	C527 - PT - Influence of the rupture strain on friction coefficient obtained by the numerical simulation of a tribosystem <i>Gilson Giuriatti, Leonardo Gregory Brunnet, Marcos Antonio Vasconcellos and Ruth Hinrichs</i>		
09:50 - 10:10	C562 - PT - Nanomechanical and tribological characterizations of hard metal and TiN film surfaces <i>Jose Divo Bressan and Carlos Maurício Lepieski</i>		
10:10 - 10:30	C635 - PT - Characterization of Fe-Nb metallurgical coatings <i>Juliana Manica, Sergio Medeiros Santos and Ana Sofia Climaco de Oliveira</i>	14:30 - 15:10	PD2 - EN - PIM: state of the art and future perspective <i>Ricardo Machado and Waldyr</i>
10:30 - 10:50	Coffee Break	15:10 - 15:30	D599 - EN - Plasma assisted debinding and sintering (PADS) technology <i>Wagner da Silveira, Paulo Pereira Wendhausen, Aloisio Nelmo Klein and Dairo Humberto Vizcaino Cespedes</i>
10:50 - 11:10	C592 - PT - Cylindrical deformation due to stress in thin films <i>Fabio Nery, Monica de Mesquita Lacerda and Julio Miranda Pureza</i>	15:30 - 15:50	D558 - EN - Microstructural evolution during sintering of the blended elemental Ti-5Al-2.5Fe alloy <i>Rodrigo Pinto Siqueira, Hugo Ricardo Zschommler Sandim and Vinicius André Rodrigues Henriques</i>

SYMPOSIUM D
Powder processing of novel materials

TUESDAY, SEPTEMBER 30 - TUPI

14:30 - 15:10	PD2 - EN - PIM: state of the art and future perspective <i>Ricardo Machado and Waldyr</i>
15:10 - 15:30	D599 - EN - Plasma assisted debinding and sintering (PADS) technology <i>Wagner da Silveira, Paulo Pereira Wendhausen, Aloisio Nelmo Klein and Dairo Humberto Vizcaino Cespedes</i>
15:30 - 15:50	D558 - EN - Microstructural evolution during sintering of the blended elemental Ti-5Al-2.5Fe alloy <i>Rodrigo Pinto Siqueira, Hugo Ricardo Zschommler Sandim and Vinicius André Rodrigues Henriques</i>

15:50 - 16:10 D604 - EN - Optimization of structural and hydriding properties of (La,Ce,Nd,Pr)Ni₅ intermetallics obtained by low energy mechanical alloying
Basílio Andres Talagañis, Marcelo Ricardo Esquivel and Gabriel Omar Meyer

16:10 - 16:30 D614 - EN - Electrochemically assisted ultra-fine milling of iron oxide in alkaline medium
Tsuneharu Ogasawara, Antonio José Oliveira Cabral and Flávio Teixeira da Silva

WEDNESDAY, OCTOBER 01 - TUPI

10:50 - 11:10 D602 - EN - Manufacture of composite of aluminum matrix strengthened with steel SAE1040
Tércio Graciano Machado, Uílame Umbelino Gomes, Renata Carla Tavares dos Santos Felipe, Flávia Roberta dos Santos Masieiro, Camilla de Medeiros Dantas and Narayanna Marques Ferreira

11:10 - 11:30 D525 - PT - Synthesis of SnO₂-TiO₂ nanoparticles using the controlled precipitation method for the conformation of thick-films
Nathalie Marcela Cerón, Jorge Enrique Rodriguez and José Varela

11:30 - 11:50 D588 - PT - Influence of chloride or sulphate anions on the physical-chemical properties of the zirconia surface powders synthesized by Pechini method
José Marcos Entringer and Duglas Gouvêa

11:50 - 12:10 D582 - PT - Synthesis of micro and nanostructured ZnO using charcoal as thermal reducer
Adriana Veloso Maciel and Vânya Márcia Duarte

12:10 - 12:30 D617 - PT - Characterization of ruthenium catalysts for hydrogen generation
Lídia Oazem Costa, Sonia Ramos Vasconcelos, André Luiz Pinto, Adriana Maria Silva, Lisiâne Veiga Mattos, Luiz Pizarro Borges and Fabio Bellot Noronha

12:30 - 14:30 Lunch

14:30- 14:50 D583 - EN - Study of the viability of the use of colorful clays in artistic and decorative ceramics
Tércio Graciano Machado, Uílame Umbelino Gomes, Narayanna Marques Ferreira, Fábio Teixeira da Silva and Caubi Ferreira Souza Júnior

14:50 - 15:10 D569 - EN - Aqueous colloidal processing of barium titanate powders
Kevin Paul Plucknett and Cameron Munro

15:10 - 15:30 D510 - EN - Organophilic bentonites for polymeric nanocomposites: preparation by solid-liquid and semisolid-solid reactions and characterization of basal spacings, organophilic character and morphology
Lucilene Betega de Paiva and Ana Rita Morales

15:30 - 15:50 D509 - EN - A Raman spectroscopy analysis of plasma thermally sprayed silicon sheet for low cost solar cells substrate
Igor Alessandro Silva Carvalho, Ricardo Luis Ribeiro, Vilma da Conceição Costa, Elton Moraes Nascimento and José Roberto Tavares Branco

15:50 - 16:10 D538 - EN - The influence of doping on the microstructure and superconducting properties of MgB₂ bulk superconductors prepared using high-energy ball milling and hot isostatic pressing
Durval Rodrigues Júnior, Jianyi Jiang, Ye Zhu, Paul Voyles, David Larbalestier and Eric Hellstrom

THURSDAY, OCTOBER 02 - TUPI

08:30 - 09:10 PD1 - EN - Quality management and quality control in the powder injection moulding process
Henri Cohrt

09:10 - 09:30 D527 - PT - Pressureless sintering of B4C-SiC composites
Rosa Maria Rocha, Jonas Soares Gutierrez and Francisco Lourenço Melo

09:30 - 09:50 D577 - PT - Characterization of the Ti-37.5Nb-25Sn alloy produced by high-energy ball milling

Moises Meza Pariona, Rodrigo Ricabone Moradás, Alfeu Saraiva Ramos and Nôe Cheung

09:50 - 10:10 D555 - PT - Synthesis of gamma-titanium alloy by mechanical alloying

Felipe Fernando Ruiz Gonçalves, Vinicius André Rodrigues Henriques, Carlos Moura Neto and Alfeu Saraiva Ramos

10:10 - 10:30 D564 - PT - A preliminary study of Ni-Base alloy processed by plasma transferred Arc (PTA)

Marjorie Benegra, Ana Sofia Climaco Monteiro DOliveira and Hélio Goldenstein

10:30 - 10:50 Coffee Break

10:50 - 11:10 D541 - PT - Controlled growth of mono and bi-dimensional par particles from basic zirconium sulphate sols

Celso Valentim Santilli, Marinalva Aparecida Alves-Rosa, Sandra Helena Pulcinelli and Valerie Briois

11:10 - 11:30 D572 - PT - Sintering studies on UO₂-Gd₂O₃ nuclear fuel

Michelangelo Durazzo and Humberto Gracher Riella

11:30 - 11:50 D594 - PT - Influence of the porosity and pore size on permeability of ceramic wick structures

Lucas Freitas Berti, Rodolpho Merlo Andrade, Carlos Renato Rambo, Washington Luiz Esteves Magalhães, Edson Bazzo and Dachamir Hotza

11:50 - 12:10 D600 - PT - Analysis of the influence of incorporation of powder made of marble and granite masses in clayey

Tércio Graciano Machado, Uílame Umbelino Gomes, Ana Karolina Bezerra de Souza, Ewerton Ferreira de Aquino and Gilson Garcia da Silva

12:10 - 12:30 D565 - PT - Dynamic fatigue of chemically strengthened dental porcelain

Humberto Naoyuki Yoshimura, Vinicius Rosa, Marcelo Mendes Pinto, Catia Fredericci, Carla Castiglia Gonzaga and Paulo Francisco Cesar

SYMPOSIUM E CIAM scientific meeting

MONDAY, SEPTEMBER 29 - E100C

10:30 - 10:50 E568 - EN - SERRS, plasmonics and single molecule detection

Golam Moula, Nicholas Pieczonka and Ricardo F Aroca

10:50 - 11:10 E567 - EN - Microscopy methods for imaging novel types of carbon nanostructures

David A Cullen, Jessica Campos-Delgado, Eduardo Cruz-Silva, Jose M Romo-Herrera, Humberto Terrones, Mauricio Terrones and David J Smith

11:10 - 11:30 E565 - EN - Study of nanostructural SiAl-based coatings by AFAM

Francisco Javier Espinoza Beltrán, Ricardo Cabrera Aguilar, Feliz Sanchez de Jesus, Ana Bolarín Miro, Juan Muñoz Saldaña, Gustavo Zambrano Romero and Oscar Barcenas Sanchez

11:30 - 11:50 E561 - EN - Electron irradiation effects in carbon nanostructures: surface reconstruction, extreme compression, nanotube growth and morphology manipulation

Mauricio Terrones

11:50 - 12:10 E547 - EN - Nano-clusters formation derived from hyper thermal hydrogen bombardment of self-assembled monolayer

Leo Lau, Luan Xi, Heng-Yong Nie, Tomas Trebicky and Oscar Grizzi

12:10 - 12:30 E545 - EN - Combined compositional and microstructural design of porous β-Si₃N₄ ceramics

Kevin Paul Plucknett, Mervin Quinlan, Daniel Gould, Liliana Garrido and Luis Genova

12:30 - 14:30 Lunch

14:30 - 15:10 PE1 - EN - Challenges and opportunities for the materials world network in the 21st century

Robert Chang

15:10 - 15:30 E513 - EN - Interplay between toughness and phase stability in zirconia-based materials for advanced gas turbines

Erin Marie Donohue, Rafael Miguel Rique Leckie, Juan Muñoz Saldaña, Robert Maxwell McMeeking, Anthony Glynn Evans and Carlos Gerardo Levi

15:30 - 15:50 E514 - EN - Kinetics of hydride precipitation in Zr alloys using synchrotron radiation

Arthur Thompson Motta, Kimberly Colas, Mark Daymond, Javier Santisteban, Pablo Vizcaino, David Banchik and Yong Chu

15:50 - 16:10 E555 - EN - Magnetic nanorotor, hybrid multiferroic and CdS nanocomposite research highlights

Ronald Ziolo, Dario Bueno Baqués, Veronica Corral Flores, Joaquín Guillén Cruz, Saida Ortiz-Colón and Mathew Espe

16:10 - 16:30 E511 - EN - Muon spin relaxation studies of quantum phase transitions in MnSi, (Sr,Ca)RuO₃, Cu(Cl,Br)La(Nb,Ta)2O₇ and La(O,F)FeAs

Yasutomo Uemura, Graeme M Luke, Elisa Maria Baggio Saitovitch, Jurian G Sereni, Tatsuo Goko, Hiroshi Kageyama and Christian Pfleiderer

TUESDAY, SEPTEMBER 30 - E100C**10:30 - 10:50 E522 - EN - Biopolymers: an alternative for biomedical applications**

Gabriel J Luna-Barcenas, Eduardo A Elizalde-Peña, Leticia Torres Martínez, Isaac C Sanchez and Julie Gough

10:50 - 11:10 E506 - EN - Chemical/physical double networks containing POSS

Patrick T Mather, Pamela Knight, Kyungmin Lee, Taekwoong Chung and Angel Romo-Uribe

11:10 - 11:30 E520 - EN - Synthesis, characterization and use of nanoparticles to monitor viral infection

Hector A Calderon, Kannan M Krishnan, Laura A Palomares and Guadalupe Zavala

11:30 - 11:50 E516 - EN - Correlation between structure and devitrification mechanism in silicate glasses

Jose Fabian Schneider, James G Longstaffe, Ulrike Werner Werner Zwanziger, Marcio L Nascimento, Edgar Dutra Zanotto and Josef W Zwanziger

11:50 - 12:10 E512 - EN - Crystallization and the effect of the iron redox ratio in iron phosphate glasses

Mark Schlesinger, Liying Zhang, Melodie Linda Schmitt, Luciana Ghussn, Edgar Dutra Zanotto and Richard K Brow

12:10 - 12:30 E557 - EN - Interfacial electron injection from Mn complexes covalently attached to anatase TiO₂

Luis G. C. Rego, José A O Freire, Robert C Snoeberger and Victor S Batista

12:30 - 14:30 Lunch**14:30 - 15:10 PE2 - EN - Ab initio calculations of electronic and transport properties of disordered one-dimensional carbon systems**

José Roque da Silva

15:10 - 15:30 E553 - EN - Quantum-mechanical description of Faraday rotation in a single quantum dot

Yanjun Ma, Gilberto Medeiros-Ribeiro and Jeremy Levy

15:30 - 15:50 E525 - EN - Conduction mechanisms in GaAs nanowire photovoltaics

Ray R LaPierre, Martin C Plante, Monica Tirado, Yury Pusep and David Comedi

15:50 - 16:10 E540 - EN - Analysis of new phases in a double-dot system showing a Dicke effect

Carlos Alberto Busser, George Balster Martins, Pedro Alejandro Orellana and Enrique Victoriano Anda

16:10 - 16:30 E507 - EN - Growth and characterization of multiferroic YMnO₃ thin films on GaN

David Lederman, Thomas H Myers, Cameron Keenan, Sandeep Chandril, Esteban Ramos and Alejandro Cabrera

SYMPORIUM F
**Electrochemistry of nanostructured
and biological materials**

MONDAY, SEPTEMBER 29 - E120D

- 10:30 - 11:10 PF1 - EN - Nanomaterials and (bio)sensing opportunities**
Arben Merkoçi

- 11:10 - 11:30 F538 - EN - LBL-based urea biosensors: the influence of preparation parameters in the detection kinetics**
Mariana Pereira Massafera and Susana Inés Córdoba de Torresi

- 11:30 - 11:50 F533 - EN - Poly(3-aminophenol): stability study and construction of a cancer prostate genosensor**
Diego Leoni Franco, Ana Graci Brito-Madurro and João Marcos Madurro

- 11:50 - 12:10 F526 - EN - On the interactions between metallic nanoparticles and biomolecules: Fundamental studies and applications in sensing**
Rodrigo Iost, Valéria Spolon Marangoni, Monise Casanova, Silmar Travain, Frank Nelson Crespilho and Valtencir Zucolotto

- 12:10 - 12:30 F550 - EN - Utilization of the cytochrome c linked to poly (5-NH₂-1-NAP) for NO detection**
Suélen Harumi Takahashi, Elaine Yoshiko Matsubara, José Maurício Rosolen and Susana Inés Córdoba de Torresi

- 12:30 - 14:30 Lunch**

- 14:30 - 15:10 PF3 - EN - Nanostructured electrode and electrolyte materials in electrochemistry**
Roberto M Torresi

- 15:10 - 15:30 F561 - EN - Critical parameters in water splitting for hydrogen production from hematite thin films produced by spin-coating deposition solution**
Flávio L. Souza, Kirian P. Lopes, Elson Longo and Edson R. Leite

- 15:30 - 15:50 F520 - EN - Hybrid solar cells based on CdSe nanoparticles and new polyfluorene derivatives**
Jillian Nei Freitas, Jonas Gruber and Ana Flávia Nogueira

- 15:50 - 16:10 F504 - EN - Systematic study of cathodic pre-treatment influence on surface properties and electrochemical behavior of boron doped diamond produced at different doping levels**
Jorge Tadao Matsushima, William Melo Silva, Adriana Faria Azevedo, Maurício Ribeiro Baldan and Neidenei Gomes Ferreira

- 16:10 - 16:30 F567 - EN - MnO₂ nanostructured electrode prepared by electrodeposition over a colloidal crystal template as cathode for lithium battery**
Tânia Machado Benedetti, Vinicius Romero Gonçales, Susana Inés Córdoba de Torresi and Roberto Manuel Torresi

TUESDAY, SEPTEMBER 30 - E120D

- 10:30 - 11:10 PF2 - EN - Using electrochemistry and self-assemblies for the controlled engineering of nanostructured biorecognition layers**
Pierre Labbé

- 11:10 - 11:30 F557 - EN - Nanostructured platforms for biosensors**
Vinicius Romero Gonçales, Elaine Yoshiko Matsubara, José Maurício Rosolen, Maria Regina Alcântara and Susana Inés Córdoba de Torresi

- 11:30 - 11:50 F580 - EN - Reproducible current transients in opal modified electrodes**
Maria Luisa Sartorelli, Edna Regina Spada, Everton Fabian Jasinski, Alexandre Silvestre da Rocha, Françoise Toledo Reis, Alexandre B Oliveira and Antonio Azevedo

- 11:50 - 12:10 F590 - EN - Cobalt electrodeposition inside the pores of anodic alumina**
Cristiane Pontes de Oliveira, Marcia Lourenço Cardoso, Adilson Jesus Aparecido de Oliveira and Ernesto Chaves Pereira

- 12:10 - 12:30 F593 - EN - Differential pulse and square waves voltammetry of magnetic nanocolloids**
Francisco Augusto Tourinho, Adriana Pereira Ibaldo, Epitácio Pinto Marinho, Alex Fabiano Cortez Campos and Jerome Depeyrot

- 12:30 - 14:30 Lunch**

14:30 - 15:10 PF4 - EN - Amorphous carbon nitrides a-CNx as substitutes to BDD: Electron transfer and surface reactivity
Claude Deslouis

15:10 - 15:30 F512 - EN - Mixed Pt-M mono layers deposited on Au/C for absorbed CO and ethanol electrooxidation
Fabio H B Lima, Demetrius Profeti, Marian Chatenet, Edson A Ticianelli and Ernesto Rafael Gonzalez

15:30 - 15:50 F522 - EN - Carbon black functionalized with sulphonic groups and its use as electrocatalysts support for fuel cell applications
Marcelo Carmo, Michele Brandalise, Almir Oliveira Neto, Estevam Victório Spinacé, Marcelo Linardi and Joao Guilherme Rocha Poço

15:50 - 16:10 F536 - EN - Physical and electrochemical properties of Pt-Ru/C electrocatalysts prepared by a formic reduction method under different conditions
Pietro Papa Lopes and Edson Antonio Ticianelli

SYMPOSIUM G

Theoretical and experimental advances in the development of new materials

MONDAY, SEPTEMBER 29 - LEOPOLDINA

10:30 - 11:10 PG10 - EN - A survey on the joint use of experimental and theoretical methods and techniques in material science
Juan Andres

11:10 - 11:30 G630 - EN - Materials for electrochromic devices
Agnieszka Pawlicka

11:30 - 11:50 G717 - EN - Studies of interface properties in the GaInP/GaAs System
Jose Bras Barreto de Oliveira, Marcio Roberto Martins, Ameritico Tabata, Edson Laureto, Eliermes Arraes Meneses and Wilson de Carvalho Junior

11:50 - 12:30 PG14 - EN - Synthesis of KTa_{1-x}NbxO₃ thin films by chemical and physical routes
Valérie Bouquet

12:30 - 14:30 Lunch

14:30 - 15:10 PG4 - EN - Classical molecular dynamic simulation of gold cluster deposition on TiN (001) surface
Norge Cruz Hernández

15:10 - 15:30 G588 - EN - Characterization of organic - inorganic field effect transistors having poly(p-phenylenevinylene) derivatives as active layer, and study of interface properties by admittance spectroscopy
Adriano Reinaldo Benvenho, Rosamaria Wu Li, Jonas Gruber, Gustavo Rehder, Marcelo Nelson Carreño, José Pedro Serbena and Ivo Alexandre Hümmler

15:30 - 15:50 G597 - EN - Using polycarbonate membranes as templates for the preparation of Au nanostructures for SERS
Diego Pereira dos Santos, Gustavo Fernandes Souza Andrade, Antonio Carlos Sant'Ana, Alexandre Guimarães Brolo and Marcia Laudelina Arruda Temperini

15:50 - 16:30 PG12 - EN - Synchrotron radiation in materials science: from pharmaceuticals to smart materials
Fabio Furlan Ferreira

TUESDAY, SEPTEMBER 30 - LEOPOLDINA

10:30 - 11:10 PG5 - EN - Strategies for controlled assembly at the nanoscale
Federico Rosei

11:10 - 11:30 G634 - EN - Type-I clathrates as thermoelectric conversion materials
Marcos Abreu Avila, Kouichirou Suekuni, Kazunori Umeo and Toshiro Takabatake

11:30 - 11:50 G805 - PT - Effects of microwave-assisted hydrothermal method on the CuO nanostructured
Diogo Paschoalini Volanti, Dawy Keyson, Leilane Roberta Macário, José Arana Varela and Elson Longo

11:50 - 12:30 PG1 - EN - Molecular properties in solution
Sylvio Canuto

12:30 - 14:30 Lunch

14:30 - 15:10	PG9 - EN - Overview of theoretical computational tools: selected multidisciplinary applications in materials science and bio-physical chemistry <i>Carlton Anthony Taft</i>	11:50 - 12:30	PG6 - EN - Developments in quantum parametric methods using parameterization techniques and new functionals and applications <i>Fernando Ruette, M Sanchez, M Oldenhof, A freitez and Kleber C Mundim</i>
15:10 - 15:30	G548 - EN - Tailoring 3-D nanoplatelet arrangements by local stress engineering in silicon <i>Shay Reboh, Marie-France Beaufort, Jean François Barbot, Jean Grilhé, Augusto Alexandre de Mattos and Paulo Fernando Papaleo Fichtner</i>	12:30 - 14:30	Lunch
15:30 - 15:50	G835 - EN - Study by GISAXS of PbTe/SiO₂ multilayer deposited on Si (111) <i>Guinther Kellermann, Eugenio Rodriguez Gonzales, Aldo Félix Craievich, Carlos Lenz César and Luis Carlos Barbosa</i>	14:30 - 15:10	PG3 - EN - The refinery of the future: challenges for developing new catalytic materials <i>Oscar R Chamberlain Pravia</i>
15:50 - 16:10	G802 - EN - Theoretical calculation of the enthalpies of formation of SiFnq and GeFnq (n = 1 - 4 and q = 0, -1) compounds <i>Nelson Henrique Morgan</i>	15:10 - 15:30	G890 - PT - Theoretical calculations of the adsorption of benzene and styrene over rutile TiO₂ (110) surfaces <i>Horacio Leite Alves and Antonio Rezende Neto</i>
16:10 - 16:30	G697 - EN - Molecular ordering in layer-by-layer (LbL) poly electrolytes films studied by nonlinear optical spectroscopy <i>Heurison de Sousa e Silva and Paulo Barbeitas Miranda</i>	15:30 - 15:50	G958 - PT - Structural properties of aluminosilicate nanotubes <i>Luciana Guimarães, Andrey N Enyashin and Hélio Anderson Duarte</i>
		15:50 - 16:30	PG8 - EN - Study of Fe(3+) substitution: Kaolinite <i>Joao Batista lopes Martins and Elton AS Castro</i>

WEDNESDAY, OCTOBER 01 - LEOPOLDINA

10:30 - 11:10	PG13 - PT - Research by interinstitutional network - the model of catalysis net - RECAT <i>Luiz Antônio Magalhães Pontes</i>	08:30 - 09:10	PG11 - EN - Electrically detected magnetic resonance <i>Carlos F O Graeff</i>
11:10 - 11:30	G713 - PT - Control of intrinsic defects in bulk and nanocrystalline TiO₂ by thermal treatments <i>Klaus Krambrock, Frederico Dias Brandão, Breno Martins dos Santos, Maurício Veloso Brant Pinheiro, Luiz Orlando Ladeira, Geraldo Mathias Riberio and Gilberto Medeiros-Ribeiro</i>	09:10 - 09:30	G759 - PT - Ab initio calculation of the properties of electrically active nickel-dopant complexes in diamond <i>Rolando Larico Mamani, Wanda Marcondes Machado, Joao Francisco Justo and Lucy Vitória Credidio Assali</i>
11:30 - 11:50	G926 - PT - SrSnO₃:Ni applied in the NO reduction in the CO presence <i>Heloysa Martins Carvalho Andrade, Paulo Sérgio Pizani, Elson Longo, Elaine Cristina Paris, Antonio Gouveia de Souza and Ieda Maria Garcia Santos</i>	09:30 - 09:50	G638 - EN - Chemical and crystalline model of core-shell magnetic nanoparticles of ferrofluids <i>Juliano de Andrade Gomes, Jérôme Depeyrot, Geraldo José da Silva, Marcelo Henrique Sousa, Francisco Augusto Tourinho, Gustavo de Medeiros Azevedo and Régine Perzynski</i>

09:50 - 10:10 G518 - EN - Comparative study between magnetization and transport current in MgB₂ thin films using Bean's model

Claudio Luiz Carvalho, Ralph Chamberlin, Nathan Newman, Kurt Stangel, Yi Shen and Rakesh Singh

10:10 - 10:30 G758 - EN - Investigation of electrodeposition nanowires from a theoretical/computational approach

Cristiane Pontes de Oliveira, Mauro Chierici Lopes and Ernesto Chaves Pereira

10:30 - 10:50 Coffee Break

10:50 - 11:10 G944 - PT - Effect of different natural fillers on the properties of PP composites

Sônia Marlí Bohrz Nachtigall, Mauro Moresco, Evelise Fonseca Santos and Simone Maria Leal Rosa

11:10 - 11:30 G867 - PT - Structural characterization of Ge nanoparticles embedded in silica

Antonio Augusto Malfatti Gasperini, Esteban Avendano, Angelo Gobbi and Gustavo de Medeiros Azevedo

11:30 - 11:50 G773 - PT - Influence of the process parameters in the luminescence of Si-nanostructures obtained by ion implantation

Segundo Nilo Mestanza Muñoz, Fabiana Duft, Antonio Carlos Gomes Rocha, Eugenio Rodriguez Gonzales, Ioshiaki Doi, José Alexandre Diniz and Newton Cesário Frateschi

11:50 - 12:10 G671 - PT - Light bluish persistent luminescence of a gadolinium-doped silicate matrix

Lucas Carvalho Rodrigues, Roberval Stefani, Carlos Alberto Carvalho, Hermi Felinto Brito and Maria Cláudia Felinto

12:10 - 12:50 PG2 - EN - Prediction of new polymorphs of old materials from a bottom-up approach using density functional theory calculations

Francesc ILLAS

SYMPOSIUM H

Nanomaterials and nanotechnology applied to biotechnology and agriculture

MONDAY, SEPTEMBER 29 - E120E

10:30 - 11:10 PH2 - EN - Engineered biobased products from agricultural feedstock: high performance nano-encapsulation matrix for sustained delivering of bioactive compounds to agricult

Syed H Imam

11:10 - 11:30 H584 - EN - Agro-nanotechnology: New aspects on innovations and their technical implications

Nelson Durán, Priscyla Danielly Marcato and Ana P Lemes

11:30 - 11:50 H530 - EN - Nanostructured films using algal extracellular polysaccharides: a strategy for removing heavy metals ions from aqueous' solutions

Cristina Souza Freire Nordi

11:50 - 12:10 H558 - EN - Effect of acrylamide concentration on adsorption of paraquat pesticide onto PAAm-MC hydrogels

Fauze Ahmad Aouada, Zhongli Pan, William J Orts and Luiz Henrique Capparelli Mattoso

12:10 - 12:30 H588 - EN - Nanonization on biotechnological product: Nanocrystals and its polymorphisms

Marcela Durán, Priscyla Danielly Marcato, Ljubica Tasic and Nelson Durán

12:30 - 14:30 Lunch

14:30 - 15:10 PH6 - EN - Nanobiotechnology and biosensors. Potential applications in agriculture

Arben Merkoçi Hika

15:10 - 15:30 H541 - EN - Immobilization of rS100A12 porcine protein in nanostructured thin films

Thatyane Morimoto Nobre, Assuero Faria Garcia, Luciano Caseli, Osvaldo Novais de Oliveira Júnior, Ana Paula Ulian Araújo and Valtencir Zucolotto

15:30 - 15:50	H553 - EN - SiNx/SiOxNy stack layer gate dielectric of BioFETs for biological detection <i>Jair Fernandes de Souza, José Alexandre Diniz, Peter Jurgen Tatch, Alexandre Miranda Pires dos Anjos and Michella Lima</i>	12:10 - 12:30	H601 - EN - Latex film study as a drug delivery and as occlusive membrane for guided bone regeneration <i>Rondinelli Donizetti Herculano, Cecilia Pereira Silva, Cibele Ereno, Sergio Augusto Catanzaro-Guimarães, Angela Kinoshita and Carlos Frederico Graeff</i>
15:50 - 16:10	H585 - EN - DNA/RNA biosensors based on (metal nanoparticle)/(conducting polymer) composites <i>Celso Pinto de Melo, Clécio Gomes dos Santos, Maria Virgínia dos Santos and Cesar Augusto de Andrade</i>	12:30 - 14:30	Lunch
16:10 - 16:30	H587 - EN - Immobilization of phytase on layer-by-layer films: Application to biosensors <i>Marli Leite de Moraes, Nara Cristina de Souza, Ana Maria Botelho do Rego, Osvaldo Novais de Oliveira Júnior, Ubirajara Pereira Rodrigues Filho and Marystela Ferreira</i>	14:30 - 15:10	PH3 - EN - New catalytic materials to biodiesel production <i>Donato AG Aranda</i>

TUESDAY, SEPTEMBER 30 - E120E

10:30 - 11:10	PH1 - EN - Visual analytics and its applications to sensors <i>Maria Cristina Ferreira de Oliveira</i>	15:30 - 15:50	H529 - EN - Photo-generation of free radicals by TiO₂ nanoparticles, fullerenes and functionalized fullerenes <i>Maurício Veloso Brant Pinheiro, Klaus Krambrock, Lucas Emanuel França de Magalhães, Leandro José dos Santos, Rosemeire Brondi Alves and Rossimiriam Pereira de Freitas</i>
11:10 - 11:30	H566 - EN - The e-tongue potential in sugar analysis <i>Wanessa M D M F Steluti, Fernanda Lanzoni Migliorini, Katti Faceli, Carlos JL Constantino and Antonio Riul Júnior</i>	15:50 - 16:10	H535 - EN - Water vapor transport in, and hydration of, a model nano-clay: X-ray studies <i>Jon Otto Fossum, Lars Ramstad Alme and Yves Meheust</i>
11:30 - 11:50	H596 - EN - Influence of processing parameters on the morphology of polyaniline/poly(lactic acid) electrospun fibers described by statistical modeling <i>Paulo Henrique de Souza Picciani, Eliton Souto de Medeiros, Luiz Henrique Capparelli Mattoso, Fernando Gomes de Souza Jr, Willian Orts and Bluma Guenther Soares</i>	16:10 - 16:30	H538 - EN - Nano-scale hydration of a model clay: NMR studies <i>Jon Otto Fossum, Romulo Tenorio, Lars Ramstad Alme, Mario Engelsberg and Fernando Hallwass</i>

WEDNESDAY, OCTOBER 01 - E120E

10:30 - 11:10	PH4 - EN - Synthesis of metal oxide anocrystals: a critical analysis <i>Edson Roberto Leite</i>	11:10 - 11:30	H502 - EN - Using infrared spectroscopy to investigate the removal of beta-lactoglobulin from membrane models by chitosan <i>Luciano Caseli, Felipe José Pavinatto, Thatyane Morimoto Nobre, Maria Elisabete Darbello Zaniquelli, Osvaldo Novais de Oliveira Júnior and Tapani Viitala</i>
11:50 - 12:10	H598 - EN - Determination of the level of defective beans in coffee samples by using array of nanostructured sensors <i>Leonardo Giordano Paterno, Fernando Josepetti Fonseca, Rosires Deliza and Luiz Henrique Capparelli Mattoso</i>		

11:30 - 11:50 H556 - EN - Particle number density determination of nanoemulsion and polymer nanocapsules by a turbidity technique

Fernanda Poletto, Bruna Donida, Marília Rizzi, Eliézer Jäger, Sílvia Stanisquaski Guterres and Adriana Raffin Pohlmann

11:50 - 12:10 H571 - EN - Effect of bovine type-I collagen films containing red propolis on dermal second-intention wound healing in rats

Maria Amália Gonzaga Ribeiro, André Luiz Santos Barreto, Jônatas Almeida Pires, Francisco Prado Reis, Francine Ferreira Padilha, Ricardo Luiz Cavalcanti de Albuquerque Júnior and Juliana Cordeiro Cardoso

12:10 - 12:30 H583 - EN - Silver nanoparticles/CLINDAMYCIN: Antileishmanial activity

Priscyla Danielly Marcato, Roseli De Conti, Bartira R Bergmann and Nelson Durán

12:30 - 14:30 Lunch**14:30 - 15:10 PH5 - EN - Micro and nanotechnology in the agriculture**

André Fattobene

15:10 - 15:30 H528 - PT - Dynamic mechanical analysis of zein thin films

Douglas de Britto, Juliana Scramin, Lucimara Aparecida Forato and Odílio Benedito Garrido de Assis

15:30 - 15:50 H534 - PT - Comparing effects of Chitosan and Chitosan-derivatives on cell membrane models

Adriana Pavinatto, Felipe José Pavinatto, Luciano Caseli, Thatyane Morimoto Nobre, Maria Elisabete Zaniquelli and Osvaldo Novais de Oliveira Júnior

15:50 - 16:10 H546 - PT - Unexpected reduction of the rate of transdermal delivery of calcein after incorporation into transfersomes

Ana Paula Corrêa Oliveira Bahia, arissa Barbosa Rabelo, Warley Cristiano Souza, Lucas Antônio Miranda Ferreira and Frederic Georges Jean Frezard

16:10 - 16:30 H617 - PT - Gas sensor for detection of lower water content in EtOH on nanomaterials of Metalporphyrin-V2O5 deposited on interdigitated Au electrodes

María del Pilar Hidalgo, Henrique Estanislao Peres, Javier Ramirez Fernandez, Ronaldo Timm, Henrique Toma and Koiti Araki

**SYMPOSIUM I
VI Brazilian Symposium on Electroceramics****MONDAY, SEPTEMBER 29 - E100A****10:30 - 11:10 PI2 - EN - Nanostructured tetragonal zirconia ceramics for IT-SOFCs**

Elisabeth Djurado

11:10 - 11:30 I566 - EN - Surface enthalpy and enthalpy of water adsorption in nanocrystalline YSZ powders

Gustavo Carneiro Cardoso Costa, Alexandra Navrotsky, Sergey Sergenkov Ushakov and Reginaldo Muccillo

11:30 - 11:50 I560 - EN - Potentiostatic deposition of yttria and ceria-based compounds for high temperature fuel cell applications

Virginie Lair, Philippe Vermaut and Armelle Ringuedé

11:50 - 12:10 I519 - EN - Appraisal of the grain size effect on the ionic and electronic conductivities of doped ceria

Eduardo Caetano Camilo de Souza, William Chueh, Eliana Navarro dos Santos Muccillo and Sossina Haile

12:10 - 12:30 I533 - EN - Thermal ageing of tetragonal ZrO₂:R2O₃ ceramics prepared by spray pyrolysis

Renata Ayres Rocha, Eliana Navarro dos Santos Muccillo, Elisabeth Djurado and Laurent Dessemond

12:30 - 14:30 Lunch**14:30 - 15:10 PI5 - EN - Frontiers in the research on voltage-tunable materials**

Danilo Suvorov

15:10 - 15:30	I556 - EN - Sintering and electrical characterization of ceria-based electrolytes <i>Camila Maria Lapa, Filipe Ramos Figueiredo, Fernando Manuel Marques and Dulcina Pinatti Ferreira de Souza</i>	12:10 - 12:30	I540 - PT - Titanate nanotubes as gas sensors <i>Diego C B Alves, Leonardo C Campos, Erick S Ávila, Além-Mar B Gonçalves, Rodrigo Gribel Lacerda and Andre Santarosa Ferlauto</i>
15:30 - 15:50	I515 - EN - Yttrium stabilized zirconia (YSZ) electrolytes for solid oxide fuel cells prepared via filter coating <i>Raphael Fortes Marcomini and Dulcina Ferreira de Souza</i>	12:30 - 14:30	Lunch
15:50 - 16:10	I520 - EN - Effects of anode composition on the behavior of direct ethanol solid oxide fuel cell <i>Daniel Zanetti de Florio, Fabio Coral Fonseca, Eliana Navarro dos Santos Muccillo and Reginaldo Muccillo</i>	14:30 - 15:10	PI1 - EN - Strategies for the molecular-level design of fine particles for contemporary electroceramic technologies <i>Dragan P. Uskoković</i>
16:10 - 16:30	I547 - PT - Electrical properties of the solid electrolyte BaCe_{0.8}Y_{0.2}O_{3-d} obtained by adapted Pechini method <i>Cristiane Gusso, Marcos Antonio Coelho Berton, Carlos Mario Garcia, Eliana Navarro dos Santos Muccillo and Reginaldo Muccillo</i>	15:10 - 15:30	I586 - EN - Ferroelectric domain switching dependence on the crystal symmetry <i>Manuel Henrique Lente and José Antonio Eiras</i>
		15:30 - 15:50	I595 - EN - Preparation and characterization of Ni-doped SnO₂ nanocrystalline thin films <i>Gustavo Benedetti Rossi and Talita Mazon</i>
		15:50 - 16:10	I597 - EN - Synthesis of manganese-zinc ferrite by powder mixing using ferric oxide from a steel mill acid recovery unit <i>Tsuneharu Ogasawara, Sandra da Silva Marins and Luis Marcelo Marques Tavares</i>
TUESDAY, SEPTEMBER 30 - E100A			
10:30 - 11:10	PI4 - EN - Development of nanostructured β-Fe₂O₃ thin film for the water photo-oxidation: insights for nanoarchitecture design <i>Edson Roberto Leite</i>	16:10 - 16:30	I598 - PT - Electromechanical, Electric and Pyroelectric measurements in Pb(Fe_{1/2}Nb_{1/2})O₃-PFN multiferroics ceramics <i>Bárbara Maraston Fraygola, Nayana Frizon, Manuel Henrique Lente, Ducinei Garcia and José Antonio Eiras</i>
11:10 - 11:30	I579 - EN - Electrical, optical and morphological properties of nanoparticle fluoride-tin-oxide layers <i>Talita Mazon, Aline Parreira Costa, Gustavo Benedetti Rossi, Bianca Paffaro, Larissa Nery Maruci and Marcio Tarozzo Biasoli</i>		
11:30 - 11:50	I561 - EN - Electrical conductivity of partially crystallized Li₂O.Nb₂O₅.SiO₂ glasses <i>Murilo Camuri Crovace, Luciana Alves de Souza and Ana Candida Martins Rodrigues</i>		
11:50 - 12:10	I537 - EN - Primary particle size effect on phase transition in Ba₂In₂O₅ <i>José Fernando Queiruga Rey, Fábio Furlan Ferreira and Eliana Navarro dos Santos Muccillo</i>		
WEDNESDAY, OCTOBER 01 - E100A			
10:30 - 10:50	I588 - PT - Oscillatory behaviour of the θ parameter of thermal lens technique induced by external electric field applied <i>Evaristo Alexandre Falcão, Ducinei Garcia, José Antonio Eiras, Ivair Aparecido Santos, José Roberto Dias Pereira, Antonio Medina Neto and Mauro Luciano Baesso</i>		

10:50 - 11:10 I553 - PT - Raman and infrared-reflectivity studies of multiferroic oxides
Roberto Luiz Moreira, Ricardo Masetti Lobo, Franklin Massami Matinaga and Anderson Dias

11:10 - 11:30 I552 - PT - Dielectrical characterization of lead lanthanum titanate ($Pb0.70La0.30$) TiO_3 synthesized via the "oxidant peroxide method" (OPM)
Alexandre Henrique Pinto, Emerson Rodrigues Camargo and Flavio Leandro Souza

11:30 - 11:50 I592 - PT - Correlation between ferroelectric domain pattern and properties in PLT transparent ceramics
Fernando Andrés Londoño, José Antonio Eiras, Ducinei Garcia and Victor Luiz da Silva Maia

11:50 - 12:10 I572 - PT - Mechanical properties and dimensional effects of ZnO and SnO_2 -based varistors
Miguel Angel Ramirez, Fernando Rubio Marcos, José Francisco Fernández, Markus Lengauer, Paulo Roberto Bueno, Elson Longo and José Arana Varela

12:10 - 12:30 I570 - PT - Effects of the $Tm+3$ concentration on the properties of $(Pb,La)(Zr,Ti)O$ ceramics
Eriton Rodrigo Botero, Jose Antonio Eiras and Ducinei Garcia

12:30 - 14:30 Lunch

14:30 - 15:10 PI3 - EN - Multiferroism in $Pb(Fe0.50,Nb0.50)O_3$ and $Pb(Fe0.50,W0.50)O_3$ based ceramics
José Antônio Eiras

SYMPOSIUM J Applications of lasers in materials processing

MONDAY, SEPTEMBER 29 - TAPUIA

10:30 - 11:10 PJ1 - EN - European union-developing countries laser processing initiative (EUDEVLAS)
Annika Klein

11:10 - 11:50 PJ5 - EN - Biological tissue processing with lasers for the development of new clinical applications
Denise Maria Zezell

11:50 - 12:10 J523 - EN - Characterizing visual changes of pigments treated by infrared pulsed laser
Adilson Rodrigues da Costa, Flavio Sandro Lays Cassino, Rémy Chapoulie and Florence Rud

12:10 - 12:30 J539 - PT - Morphological study of dermal wound healing in rats submitted to two distinct protocols of laser photobiomodulation $16J/cm^2$ $16J/cm^2$
Maria Amália Gonzaga Ribeiro, Vitor Garcia Moreno de Oliveira, André Lui Santos Barreto, Jonas Almeida Pires, Rose Nely Pereira Filho, Juliana Cordeiro Cardoso and Ricardo Luiz Cavalcanti de Albuquerque Júnior

12:30 - 14:30 Lunch

14:30 - 15:10 PJ2 - EN - Femtosecond micromachining in polymers
Cléber Renato Mendonça

15:10 - 15:50 PJ7 - EN - Laser as a manufacturing tool
Walter Mello

15:50 - 16:10 J509 - EN - Surface sculpturing with a Nd-YAG laser operating in the third harmonic
Nicolau André Silveira Rodrigues, Marcelo Geraldo Destro, Alex Silva de Oliveira and Marcos Ribeiro de Almeida

16:10 - 16:30 J521 - EN - Structural changes in silicon wafer processed by femtosecond laser
Leandro Matiolli Machado, Wagner de Rossi, Ricardo Elgul Samad, Anderson Zanardi de Freitas, Gaëlle Coustillier, Olivier Uteza and Paulo Sérgio Pizani

TUESDAY, SEPTEMBER 30 - TAPUIA

10:30 - 11:10 PJ4 - EN - New trends in laser technology - laser systems and their applications
Rainer Kling

- 11:10 - 11:50 PJ3 - EN - Hot tearing analysis in aluminium welding**
Jean-Marie Drezet

- 11:50 - 12:10 J537 - PT - Influence of laser pulse time in welding of zirconium alloy**
Rubens Fernando Rezende, José Roberto Berretta, Maurício David Martins das Neves and Wagner de Rossi

- 12:10 - 12:30 J528 - PT - Interaction of a focused laser beam and a coaxial powder jet in laser surface processing**
Omar Oliveira Diniz Neto, Augusto Miguel Alcalde and Rui Vilar

- 12:30 - 14:30 Lunch**

- 14:30 - 15:10 PJ6 - EN - Laser material processing at IEAv**
Rudimar Riva

- 15:10 - 15:30 J510 - EN - Process maps for the laser beam welding of Al-Li alloys**
Jean-Marie Drezet, Jean-Daniel Wagniere, Delphine Alleaux and Milton Sérgio Fernandes de Lima

- 15:30 - 15:50 J507 - EN - Microwelding using a pulsed fiber laser**
Aline Capella de Oliveira, Rudimar Riva, Marcelo Geraldo Destro and Milton Sérgio Fernandes de Lima

- 15:50 - 16:10 J520 - EN - Design of experiments applied to Ti6Al4V laser cutting**
Ivan Alves de Almeida, Wagner de Rossi and Jose Roberto Berretta

- 16:10 - 16:30 J524 - EN - Laser texturing to enhance PVD adhesion in a forging die**
Débora Maria Mitter Marques, Marcio Matos dos Santos, Renato Galvão da Silveira Mussi, Sérgio Stefano Guerreiro and Milton Sérgio Fernandes de Lima

SYMPORIUM K
Microanalysis
(Micromat)

THURSDAY, OCTOBER 02 - TAPUIA

- 08:30 - 09:10 PK1 - EN - Applications of electron energy-loss spectroscopy (EELS) to elementar mapping in the nanoscale**
Ruth Hinrichs

- 09:10 - 09:50 PK2 - EN - Towards a standardless quantification by electron probe microanalysis**
Jorge Trincavelli

- 09:50 - 10:10 K514 - EN - EPMA determination of ternary Fe-M-Nb phase diagrams in the neighborhood of the Laves (Fe_{1-x}M_x)₂Nb composition M=Co, Ni, Cu**
Aba Israel Cohen Persiano, Marco Tulio Raposo and Clederson Paduani

- 10:10 - 10:30 K517 - PT - Thermochronology through fission tracks in zircon: methodological study**
Rosane Palissari, Carlos Tello, Airton Dias and Pedro José Iunes

10:30 - 10:50 Coffee Break

- 10:50 - 11:10 K506 - EN - EBSD analyses of crystallographic orientation memory in magnetite-hematite transformation**
Paola Ferreira Barbosa and Leonardo Lagoeiro

SYMPORIUM L
High resolution electron microscopy
(Micromat)

MONDAY, SEPTEMBER 29 - E100B

- 10:30 - 11:10 PL1 - EN - The new paradigm of transmission electron microscopy - on the way to the ultimate limits of optics**
Knut Urban

- 11:10 - 11:50 PL4 - EN - HRTEM as a tool to characterize nanomaterials**
Marcelo Ornaghi Orlando

11:50 - 12:10 L503 - EN - High-resolution transmission electron microscopy on cobalt nanoparticles decorating multiwalled carbon nanotubes
Duneskys Gonzalez Larrudé, Paola Alexandra Ayala and Fernando Lázaro Freire Júnior

12:10 - 12:30 L519 - EN - HRTEM evaluation of oriented attachment growth mechanism on ATO nanoparticles
Daniel Grando Stroppa, Rafael Silva, Tiago de Góes Conti, Luciano Andrey Montoro, Edson Roberto Leite and Antonio Jose Ramirez

12:30 - 14:30 Lunch

14:30 - 15:10 PL2 - EN - Aberration corrected analytical electron microscopy of catalysts and other nanostructured materials
Christopher John Kiely

15:10 - 15:50 PL5 - EN - Structural and plasmonic effects in the growth of Ag triangular nanoplates
Daniela Zanchet

15:50 - 16:10 L504 - EN - HRTEM study of crack interaction phenomena in H and He coimplanted Si
Shay Reboh, Marie-France Beaufort, Jean François Barbot, Augusto Alexandre de Mattos, Tierri Engel, Fernando Scahurich Silva and Paulo Fernando Papaleo Fichtner

16:10 - 16:30 L518 - EN - High resolution chemical mapping applied to Si-Ge/Si(001) nanoislands
Luciano Andrey Montoro, Daniel Biggemann, Marina S Leite, Fellipe Grillo Peternella, Gilberto Medeiros-Ribeiro and Antonio J Ramirez

TUESDAY, SEPTEMBER 30 - E100B

10:30 - 11:10 PL3 - EN - Magnetic nanoparticle systems studied by high resolution transmission electron microscopy
Leandro Martín Socolovsky

11:10 - 11:30 L512 - EN - Nanostructuring SiO₂/Si and SiO₂/SiN interfaces via Sn implantation and thermal annealing
Felipe Kremer, João M J Lopes, Paulo Fernando Papaleo Fichtner and Fernando Claudio Zawislak

11:30 - 11:50 L521 - EN - Atomic scale analysis and strain mapping of phase separation in β Ti-35Nb-7Zr-5Ta alloy through HRTEM
Conrado Ramos Moreira Afonso, Peterson Luis Ferrandini, Rubens Caram Junior and Antonio Jose Ramirez

11:50 - 12:10 L516 - EN - Spontaneous growth of tungsten oxide nanoparticles in light bulbs
Victor Manuel Fuenzalida, Donovan Enrique Diaz-Droguett and Daniel Guillermo Galvez

12:10 - 12:30 L505 - PT - Characterization by high resolution transmission electron microscopy (HRTEM) of nanostructured carbonate apatite in the initial steps of the crystallization process
Carlos Alberto Ospina Ramirez, Andréa Machado Costa, Jefferson Bettini, Antonio Jose Ramirez and Alexandre Malta Rossi

12:30 - 14:30 Lunch

SYMPOSIUM M Electron microscopy at the industry (Micromat)

WEDNESDAY, OCTOBER 01 - E100C

10:30 - 11:10 PM2 - EN - Development of steels for application in power plants and petrochemical industry
Luiz Henrique de Almeida

11:10 - 11:30 M509 - PT - High temperature degradation in power plants and refinaries
Heloisa Cunha Furtado, Maurício Barreto Lisboa, Glaucio Rigueira and Luiz Henrique de Almeida

11:30 - 11:50 M520 - PT - Solution treatment of nickel-base superalloy MAR-247
Renato Baldan, Alex Matos Costa, Carlos Angelo Nunes, Gilberto Carvalho Coelho, Rafael Bogado, Herbert Toth and Caio Tavares

11:50 - 12:10 M523 - PT - SEM in-situ high z-temperature-deformation test and its application to the study of DDC on ni-base alloys
Edwar Andrés Torres, Rubens Caram Junior and Antonio José Ramírez

12:10 - 12:30	M516 - EN - TEM and SEM analysis of plastic deformation in bearing steel induced by mechanical wear <i>Suzana Bottega Peripolli, Lincoln Silva Gomes, Marcia Marie Maru, Alexei Yu Kuznetsov, Adelci Menezes Oliveira and Carlos Alberto Achete</i>	09:10 - 09:30	N502 - EN - Progressive non-linear DIC for in-situ strain mapping <i>Fellipe Grillo Peternella, Edwar Andrés Torres and Antonio Jose Ramirez</i>
12:30 - 14:30	Lunch	09:30 - 09:50	N511 - EN - Single-ion nanolithography as an alternative tool for fast patterning of large areas <i>Daniel Lorscheitier Baptista, Ricardo Meurer Papaléo, José Ricardo Galvão, João Wagner Lopes Oliveira, André Luís Fernandes Cauduro, Paulo Fernando Papaleo Fichtner and Fernando Claudio Zawislak</i>
14:30 - 15:10	PM1 - EN - Characterization of iron ore agglomerates – image analysis and digital microscopy <i>Sidnei Paciornik</i>	09:50 - 10:10	N510 - PT - Determination of nanocrystallite morphology by X-ray diffraction and Raman spectroscopy methods <i>Alexei Yu Kuznetsov, Varghese Swamy, Rogério Machado, Marcia Lucchese, Carlos Alberto Achete and Ado Jorio</i>
15:10 - 15:30	M510 - EN - Quantitative mineralogy characterization by automated SEM/EDS image analysis – an overview and applications for phosphate and gold ores <i>Henrique Kahn, Mariane Brumatti, Liz Zanchetta D'Agostino, Maria Manuela Maia Lé Tassinari, Carina Ulsen and Daniel Ulliana</i>	10:50 - 11:30	PN2 - EN - Creation and analysis of well ordered transition metal oxide films grown on Cu3Au(001) <i>Horst Niehus</i>
15:30 - 15:50	M513 - PT - Atomic and magnetic force microscopies applied to the observation of ultrafine ferritic stainless steel grains <i>Margareth Spangler Andrade, Elenice Cavichioli Borba and José Mário Carneiro Vilela</i>	11:30 - 11:50	N515 - EN - Vanadium deposition on Si(111)-7x7 surface: a combined DFT and STM study <i>Fernando Stavale, Moises M de Araújo, Alexandre A Leitão, Rodrigo B Capaz, Horst Niehus and Carlos Alberto Achete</i>
15:50 - 16:10	M501 - PT - Texture and mechanical properties evolution of a deep drawing medium carbon steel during cold rolling and subsequent recrystallization <i>Clara Herrera Pulgarin, Nelson Batista de Lima, Antenor Ferreira Filho, Ronald Lesley Plaut and Angelo Fernando Padilha</i>	11:50 - 12:10	N516 - EN - Interferometric metrology of plasma-deposited amorphous carbon <i>Dante Ferreira Franceschini, Dácio Moreira de Souza, Fabiano Pinto Pereira and Carlos Tasayco Sánchez</i>
16:10 - 16:30	M518 - EN - Influence of CIS polibutadiene content on the mechanical properties of high impact polystyrene <i>Carlos Alberto Correa, Juliana Rovere, Vinicius Galhard Grassi and Marcus Dal Pizzol</i>	12:10 - 12:30	N518 - EN - Atomic force microscope combined with confocal raman microscopy – a tool for subwavelength optical resolution <i>Pavel Dorozhkin, A. Schekin, A. Shelaev and V. Bykov</i>

SYMPORIUM N
Micro and nanometrology
(Micromat)

THURSDAY, OCTOBER 02 - E100C

08:30 - 09:10	PN1 - EN - Quantitative measurements of elemental intermixing in nanoscaled multilayers <i>Hamish Fraser</i>
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12:30 - 12:50	N513 - EN - Reproducible growth of aligned ZnO nanowires <i>Daniel Lorscheitier Baptista, Sharvari H Dalal, José Ricardo Galvão, João Wagner Lopes Oliveira, André Luís Fernandes Cauduro, William I Milne and Fernando Claudio Zawislak</i>
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MICROMAT SHORT COURSES

SUNDAY, SEPTEMBER 28TH - E 100A

14:00 - 16:30

- 1 - SEM for beginners

Ruth Hinrichs - UFRGS

16:30 - 18:00

- 2 - Microanalysis for beginners

Ruth Hinrichs - UFRGS

SUNDAY, SEPTEMBER 28TH - E 100B

15:00 - 18:00

- 3 - Sample preparation for SEM and TEM

Karla Balzuweit - UFMG

SUNDAY, SEPTEMBER 28TH - E 100C

14:00 - 18:00

- 4 - Digital microscopy, image processing and analysis

Sidnei Paciornik - PUC-RIO

TUESDAY, SEPTEMBER 30TH - TUPI

7:30 - 8:30

- 5 - Microanalysis in the TEM

Ruth Hinrichs - UFRGS

POSTER SESSIONS

SYMPORIUM A Novel hybrid organic-inorganic multifunctional materials

TUESDAY, SEPTEMBER 30 - POSTER HALL

16:30 - 18:30

A502 - Epoxy-amine networks for dental restorations

Filipe Matusalém Souza, Filiberto González Garcia, Maria Elena Leyva, Alvaro Alencar Queiroz and Olga Zazuco Higa

A503 - Extraction and characterization of orange pectin for application in materials science

Karina Nigoghossian, Rosana Maria Nascimento de Assunção, Hernane da Silva Barud, Sidney José Lima Ribeiro and Younes Messaddeq

A504 - ^{13}C and ^1H NMR study of poly (methyl metacrylate) and diethylene glycol bis allyl carbonate (CR-39) containing lead acrylate

André Luis Bonfim Bathista Silva, Luciana Almeida Fraga, José Roberto Tozoni, Gregório Couto Faria, Maria Inês Bruno Tavares, Eduardo Ribeiro DeAzevêdo and Tito José Bonagamba

A505 - Nanoadsorbent based on nanoplatforms of organofunctionalized silsesquioxanes

Newton Luiz Dias Filho, Reginaldo Mendonça Costa, Giovana Lopes Okajima, Carolina Bresne, Maria Alice G dos Santos, Camila U Braz and Devaney Ribeiro do Carmo

A506 - Adsorption of silver nanoparticles in multilayers of weak polyelectrolytes

Giovanna Machado, Marisa Masumi Beppu, Liane Marcia Rossi, Arthur Thompson, Janaina da Silva Crespo and Cristiano Giacomelli

A507 - Catalytic activity of anionic iron(III) porphyrins immobilized on raw and grafted chrysotile for linear alkane oxidation reaction

Shirley Nakagaki, Kelly Aparecida Dias de Freitas Castro, Guilherme Sippel Machado, Sueli Maria Drechsel, Fernando Wypych and Matilde Halma

A508 - Improving the quality of silica obtained from rice hull for electronic applications

José da Silva Junior, Carlo Requião da Cunha, Ubirajara Pereira Rodrigues Filho, Flávio de Souza, Marcos Antônio Segatto Silva and Paulo Renato Oliveira

A509 - Resonant optical nonlinearities in Zn phthalocyanines

Cleber Renato Mendonça, Leonardo De Boni, Erick Piovesan and Luciana Gaffo

A510 - Organometallic nanomaterial for application in oxidation catalysis

Newton Luiz Dias Filho, Reginaldo Mendonça Costa, Giovana Lopes Okajima, Carolina Bresne, Maria Alice G dos Santos, Camila U Braz and Devaney Ribeiro do Carmo

A511 - Preparation of hybrids with renewable natural fibers and hydrous niobium oxide by conventional precipitation

Rafael Evangelista da Silva, Liana Alvares Rodrigues and Maria Lúcia Caetano Pinto da Silva

A514 - FRET between nanocrystals and fluorescent proteins

Vitor Renaux Hering, Silvio David Rodriguez and Mário José Politi

A515 - Highly luminescent hybrid materials based on kaolinite

Emerson Henrique de Faria, Omar José Lima, Katia Jorge Ciuffi, Eduardo José Nassar, Miguel Angel Vicente, Raquel Trujillano and Paulo Sérgio Calefi

A516 - Indium Tin Oxide (ITO) produced by the nonhydrolytic sol-gel route: Study of the reaction time

Gabriel Marcondes Silva, Eduardo José Nassar, Katia Jorge Ciuffi and Paulo Sérgio Calefi

A517 - Eu³⁺ B-diketonate-based organic-inorganic silicate as high luminescence hybrid thin film

Alex Lemes Marcal, Paulo Sérgio Calefi, Eduardo José Nassar and Katia Jorge Ciuffi

A518 - Variable temperature ferromagnetic resonance studies of biocompatible ferrofluids based on magnetite nanoparticles

Lionel Gamarra Contreras, Walter Maigon Pontuschka, Antonio José Da Costa-Filho, Ernanni de Viera, Javier Bustamante Mamani, Carlos Alberto Moreira-Filho and Edson Amaro Junior

A519 - Synthesis and characterization of the contrast agent for molecular imaging based on magnetite nanoparticles coated with molecular bilayers

Lionel Gamarra Contreras, Walter Maigon Pontuschka, Javier Bustamante Mamani, Sylvia Mendes Carneiro, Carlos Alberto Moreira-Filho and Edson Amaro Junior

A520 - Structural and luminescence study of Eu³⁺ containing organic-inorganic phosphoniobate-APTS hybrids

Anne Jacqueline Barbosa, Lauro June Queiroz Maia, Rogéria Rocha Gonçalves, Luis Dias Carlos, Verônica Zéa Bermudez, Younes Messaddeq and Sidney José Lima Ribeiro

A521 - Fabrication and characterization of EVA/starch foams

Rebeca Delatore Simoes, José Antonio de Saja, Miguel Angel Rodriguez-Perez and Carlos José Leopoldo Constantino

A522 - Structural properties of PVDF and P(VDF-TrFE) containing natural polymers as additives

Rebeca Delatore Simoes, José Antonio De Saja, Miguel Angel Rodriguez-Perez and Carlos José Leopoldo Constantino

A523 - Mesoporous amino-functionalized silica for adsorption of copper ion in ethanol medium

Lucas Falquetti Saliba, Bruno Cesar Teiga, Marco Antonio Utrera Martines and Gustavo Rocha de Castro

A524 - Synthesis of colloidal carbon spheres by a sucrose hydrothermal method

Cristian Bernardi, Valderes Drago and Junior Antunes Koch

A525 - Calcium-fluoroaluminosilicates obtained by hydrolytic and non-hydrolytic sol-gel methods: heat treatment effect

Alexandre Cestari, Lilian Rodrigues Ávila, Gustavo Pimenta Ricci, Lucimara Capelozi Bandeira, Paulo Sérgio Calefi, Katia Jorge Ciuffi and Eduardo José Nassar

A527 - Photochromic hybrid xerogels: A solid-state nuclear magnetic resonance study

Marcos de Oliveira Junior, José Fabián Schneider, Ubirajara Pereira Rodrigues Filho and Adriano Lopes de Souza

A528 - Structural and vibrational properties of adamantane derivatives

Joelson Cott Garcia, Lucy Vitória Credidio Assali, Wanda Valle Marcondes Machado, João Francisco Justo and Valder Nogueira Freire

A529 - Influence of surface physical treatment on the properties of alumina for ballistic application

Clara Leal Nogueira, Cristina Moniz Araujo Lopes, Natália Martins Moblicci and Francisco Cristovão Lourenço Melo

A530 - A thermostable and non-leachable purple pigment produced by the intercalation of the dye from Açaí fruit between the layers of hexaniobate precursors

Ângela Albuquerque Teixeira Neto, Ana Lucia Shiguiera, Celly Mieko Shinohara Izumi, Marcos Augusto Bizeto, Marcia Laudelina Arruda Temperini, Fabrice Leroux and Vera Regina Leopoldo Constantino

A531 - Self-supported silver nanoparticles containing bacterial cellulose membrane: antimicrobial activity

Hernane da Silva Barud, Thaís Regiani, Rodrigo Fernando Marques, Wilton Rogério Lustri, Younes Messaddeq and Sidney José Lima Ribeiro

A532 - Hybrid nanoparticles of silica and dibenzoylmethane for use in solar filters

Jane Karla Faria Borges Machado, Eduardo José Nassar, Katia Jorge Ciuffi and Paulo Sérgio Calefi

A533 - Biomagnetic separation of yeast using amino surface functionalized magnetite nanoparticles

Rodrigo Fernando Costa Marques, Taciane P Costa, Rafael A Bini, Wilton Rogério Lustri and Miguel Jafelicci Júnior

A534 - Hybrid metallic-carbon microspheres

Junior Antunes Koch, Valderes Drago and Cristian Bernardi

A535 - Gold nanoparticles/silica composites obtained by sol-gel method and high-pressure technique

Tania Maria Haas Costa, Marina Teixeira Laranjo, Letícia Todeschini, Tarso Benigno Ledur Kist, Marcia Russman Gallas and Edilson Valmir Benvenutti

A537 - Preparation and electrocatalytic properties of a new carbon ceramic electrode SiO₂/TiO₂/Sb₂O₅/graphite

Camila Marchetti Maroneze and Yoshitaka Gushikem

A538 - Synthesis and characterization of photoluminescent organic hybrid aluminates

Eduardo Rezende Triboni, Julio Cesar Artur, Pedro Berci Filho and Mário José Artur

A539 - Silicon oxide as modifier for calcium phosphate

Oberto Grangeiro da Silva, Ane Josana Dantas Fernandes, José Hundenberg Pereira Barbosa, Maria Gardênnia Fonseca and Luiza Nobuko Hirota Arakaki

A540 - SiCxOy ceramics derived from MWCNT-containing hybrid polymeric precursor

Mariana Gava Segatelli, Alfredo Tiburcio Nunes Pires, Maria do Carmo Gonçalves and Inez Valéria Pagotto Yoshida

A541 - Two different strategies for the synthesis of gold

Rafael de Lima Oliveira and Liane Marcia Rossi

A543 - Potential application of polyaniline/ZnO heterojunctions as a varistor device

Jorlandio Francisco Felix, Eronides Felisberto da Silva junior, Elder Alpes de Vasconcelos and Walter Mendes de Azevedo

A544 - Polyacetylene and polyaniline charge transfer complexes: TDDFT ab-initio study

Ecio José França

A545 - Hybrid of poly (vinylpyrrolidone) / hydroxyapatite with potential application as biomaterial

Luis Cláudio Mendes, Rodriângela Conceição Rodrigues and Edemilson Pinto Silva

A546 - Effect of hybrid silica gel / styrene-acrylonitrile copolymer on the molecular separation in thin layer chromatography

Luis Cláudio Mendes, Paula Almeida Silva and Edemilson Pinto Silva

A547 - Hierarchically organic-inorganic hybrid polymer based on double-imprinted concept for preconcentration of Ni (II) from aqueous solution

Letícia Ramos Nacano, Mariana Gava Segatelli, Inez Valéria Pagotto Yoshida and César Ricardo Teixeira Tarley

A549 - Near infrared spectroscopy studies of casting films of cobaltpthalocyanine and cobaltporphyrin triads: Effect of Spacer Ligand

Thiago Teixeira Tasso, Márcia Regina Cordeiro and Wania Conceição Moreira

A550 - Electrical properties of piezoelectric PVDF - BaTiO₃ nanocomposites

Marcos Vinicius Costa e Silva, Seila Silva Rojas, Antonio Carlos Hernandes and Rodrigo Fernando Bianchi

A551 - Surface grafting of poly(L-L lactide) on hydroxyapatite particles

Walker Soares Drumond, Romeu Casarano and Wang Shu Hui

A552 - Hybrid organic-inorganic materials: Mefenamic acid and layered double hydroxides

Vanessa Roberta Cunha and Vera Regina Leopoldo Constantino

A554 - New inorganic-organic hybrids from clay mineral silanization

Albaneide Fernandes Wanderley, Marcia Maria Silva, Maria Gardênnia Fonseca and Luiza Nobuko Hirota Arakaki

A555 - Luminescent properties of hybrid materials prepared by polymeric precursors method

Larissa Helena de Oliveira, Jéssica Fernanda Affonso de Oliveira, Edson Roberto Leite, José Arana Varela, Elson Longo and Ieda Lúcia Viana Rosa

A556 - Proton conducting membrane based on SPEEK and modified silica for direct ethanol fuel cell

Florêncio Gomes Ramos Filho, Ai Ren Tan, Luisa Magno de Carvalho, Karim Dahmouche and Ailton de Souza Gomes

A557 - Inorganic-organic hybrids derived silylation of restructured vermiculites obtained through acid activation

Albaneide Fernandes Wanderley, Maria Gardênnia Fonseca and Luiza Nobuko Hirota Arakaki

A558 - Hybrid films of starch and layered hexaniobate

Ana Lucia Shiguihara, Marcos Augusto Bizeto, Duclerc Fernandes Parra, Fabrice Leroux and Vera Regina Leopoldo Constantino

A560 - Chitosan/siloxane hybrid with application to hydroxyapatite nucleation in SBF

Geovanna Pires, Celso Aparecido Bertran and Inez Valéria Pagotto Yoshida

A561 - Preparation of [Mn(TF4TMAP)P]-MC-M41imp and its catalytic potential in (Z)-cyclooctene epoxidation by iodosylbenzene

Luciana de Paula Baggini Lôvo, Ieda Lúcia Viana Rosa and Yassuko Iamamoto

A562 - Investigations of luminescent films of Tb(acac)₃2H₂O doped into polypropylene (PP) matrix

Pedro Lima Forster, Duclerc Fernandes Parra, Danilo Marin Fermino, Ademar Benévolo Lugão and Hermílio Felinto Brito

A563 - Synthesis of selenium nanowires with carbon nanotubes

Rafaella Oliveira Nascimento, Oscar Endrigo Dorneles Rodrigues, Antônio Gomes Souza Filho and Josué Mendes Filho

A564 - Characterization of TiO₂-modified multi-wall carbon nanotube electrodes for dye-sensitized solar cells

Lívia Mesquita Dias Loiola, Cesar Oropesa Avellaneda, Agnaldo de Souza Gonçalves and Ana Flávia Nogueira

A565 - Development of light emitting organic-inorganic hybrid devices

Josiani Cristina Stefanelo and Dante Luis Chinaglia

A566 - Hybrid matrixes for drug delivery

Leandro Lopes, Sandra Helena Pulcinelli, Leila Aparecida Chiavacci and Celso Valentim Santilli

A568 - A comparative study of spectroscopic properties of Pr³⁺-doped GdAlO₃ and Gd₂O₃ nanopowders dispersed in PMMA films

Marco Aurélio Cebim, Alison Abreu Da Silva, Higor Henrique De Souza Oliveira and Marian Rosaly Davolos

A570 - Organofunctionalization of silica gel with 4-amino-2-mercaptopurimidine molecule and application in adsorption study of Cd(II) in aqueous medium

Adriano Silva Pereira, Guilherme Ferreira, Laércio Caetano, Marco Antonio Utrera Marines and Gustavo Rocha de Castro

A571 - Application of babaçu coconut fibers as material of thermal isolation

Francisco José Patrício Franco

A643 - Preparation of Pd membrane on porous stainless steel support modified with Zr for hydrogen purification

Jacineto Lima dos Santos, Josiane Zini and Fátima Maria Sequeira de Carvalho

A644 - Synthesis of gold nanoparticles stabilized in castor oil with different reducing agents

Monique Gabriella Angelo, Mario Roberto Meneghetti, Sara Alcântara Morais, Simoni Plentz Meneghetti, Rusiene Monteiro Almeida and Eid Cavalcante Silva

WEDNESDAY, OCTOBER 01 - POSTER HALL

16:30 - 18:30

A572 - Intercalation of organic pollutants in layered material for remediation of sewage sludge

Gabriela Borin Barin, Genelane Cruz Santana, Iara de Fatima Gimenez, Luis Eduardo Almeida and Ledjane Silva Barreto

A573 - Formation and growth of ZnO and Zn-HDS nanoparticles

sandra helena pulcinelli, celso valentim santilli and bruno leonardo caetano

A574 - Titanosilicates prepared by sol-gel process:characterization and application in removal of azo-dye

Liziane Marçal, Michelle Saltarelli, Gustavo Pimenta Ricci, Eduardo José Nassar, Paulo Sérgio Calefi and Katia Jorge Ciuffi

A575 - Coated nylon macroporous strucuture prepared by rapid prototyping

Lucimara Capelozi Bandeira, Alexandre Cestari, Paulo Sérgio Calefi, Kátia Jorge Ciuffi, Eduardo José Nassar, Jorge Silva and Marcelo Oliveira

A576 - Photoluminescence investigation of polyhydroxybutyrate (PHB) film doped with Eu³⁺-beta-diketonate complex

Jiang Kai, Duclerc Fernandes Parra and Hermi Feinto Brito

A577 - Alternating conductivity of polyaniline/indium tin oxide nanocomposite

Gislayne Elisana Gonçalves Coutinho Herculano, Cauê Ribeiro de Oliveira and Rodrigo Fernando Bianchi

A578 - Influence of interlamellar covalent grafting and intercalation of organic units on São Simão's kaolinite for chromium adsorption in industrial effluents

Michelle Saltarelli, Liziane Marçal, Paulo Sérgio Calefi, Eduardo José Nassar and Katia Jorge Ciuffi

A579 - Influence of temperature and solvent in the preparation of spherical nanoparticles of silica obtained by the sol-gel methodology

Luiz Marcelo Silva, Michelle Saltarelli, Evelisy Cristina Oliveira Nassar, Paulo Sérgio Calefi, Eduardo José Nassar and Katia Jorge Ciuffi

A580 - Mechanical behavior of restored central upper incisors subjected to static and cyclic loads

Flaminio Levy Neto, Luciana Moura Brito, Jose Alexander Araujo and Cosme Roberto Moreira da Silva

A581 - Tetracycline and hydrocortisone incorporation and release by bioactive glasses compounds

Roberta Viana Ferreira, Walison Arthuso Vasconcelos, Ângela Leão Andrade, Diana Manzi, Rosana Zarcarias Domingues and Jadson Cláudio Belchior

A582 - Electrical characterization of hybrid polyaniline/TiO₂ photovoltaic devices

Etelino José Monteiro Vera Cruz Feijó de Melo, Celso Pinto de Melo and Clecio Gomes dos Santos

A583 - Correlation between structure and drug delivery in Sol-Gel derived Siloxane-Polyether Hybrids

Juliana Henriques Pereira, Karim Dahmouche and Carlos Eduardo Carvalho

A584 - Cobalt (II) phthalocyanine immobilized on 3-n-propylimidazole silsesquioxane: electrocatalytic oxidation of oxalic acid

Jacqueline Arguello da Silva, Richard Landers and Yoshitaka Gushikem

A586 - Y₃Al₅O₁₂ (YAG) matrix as white phosphours by sol-gel

Paula Fabiana dos Santos Pereira, Marcela Guedes Matos, Lilian Rodrigues Ávila, Evelisy Cristina Oliveira Nassar, Kátia Jorge Ciuffi, Paulo Sérgio Calefi and Eduardo José Nassar

A587 - Effect of the addition of sodium bentonite on the nanocomposite membrane formation process

Priscila Anadão, Rafael Rezende Montes, Laís Fumie Sato, Hélio Wiebeck and Francisco Rolando Valenzuela-Díaz

A588 - Modification of epoxy resin by amino-functionalized polyhedral oligomeric silsesquioxanes (POSS-NH₂)

Rurik Galimberti Peixoto de Abreu and Bluma Guenther Soares

A589 - PEDOT: PSS + KDP mixture characterization by X-Ray Diffraction

Felipe Azevedo Rios Silva, Artemis Marti Ceschin, Maria José Araújo Sales, Rômulo Simões Angélica and Humber Furlan

A590 - Non-hydrolytic sol-gel materials: synthesis and catalytic activity in biodiesel production

Gustavo Pimenta Ricci, Alexandre Cestari, Paulo Sérgio Calefi, Katia Jorge Ciuffi, Sandro Luiz Barbosa and Gabriela Ramos Hurtado

A592 - Self-organized periodic sub-micrometric structures from Diluted Block Copolymer Solutions

Roberto Mendonça Faria, Rafael Henriques Longaresi, Marcelo Assumpção Silva and Antonio José Felix Carvalho

A593 - Influence of the addition times of the alkoxide PTES and of the catalyst used for the preparation of organic – inorganic hybrid glasses

Caroline Borges Azevedo, Lilian Rodrigues Ávila, Paula fabiana dos Santos Pereira, Alexandre Cestari, Katia Jorge Ciuffi, Paulo Sérgio Calefi and Eduardo José Nassar

A594 - Chronoamperometric method to estimate the active area of the PVDF-Graphite composite electrode

Alex Silva Lima, Murilo Teodoro Martinez, Celso Xavier Cardoso and Marcos Fernando de Souza Teixeira

A596 - Photoluminescence, photoabsorption and photoemission studies of Eu(TTA)3(TPPO)2 thin film used as electroluminescence layer in OLEDs

Walter Ricardo Brito, Welber Gianini Quirino, Cristiano Legnani, Marcos Cremona, Reynaldo Reyes, Gunar Mota and Maria Luiza Rocco

A598 - Sodium alginate spheres as cation exchangers towards

Rosane Maria Pessoa Betânia Oliveira, Marcus Freitas Melo, Dulce Maria de Araujo Melo, Robson Fernandes Farias, Andreia Cavalcante Lima and Ana Paula da Silva Peres

A599 - Preparation and characterization of core shell MgO and Al₂O₃ coated TiO₂ for dye sensitized solar cells

Cesar Oropesa Avellaneda, Agnaldo de Souza Gonçalves, Joao Eduardo Benedetti and Ana Flávia Nogueira

A600 - Influence of acid-etching dental substrate on the microtensile bond strength of self-adhesive cement

Cíntia Tereza Pimenta Araújo, Lúcia Trazzi Prieto, Maria Malerba Colombi Humel, Luis Alexandre Maffei Sartini Paulillo and Carlos Tadeu Santos Dias

A601 - Study of hybrid materials composed by nanocrystalline ZSM-5 embedded into the MCM-41 mesoporous materials

Maria José Fonseca Costa, Antonio Souza Araujo and José Geraldo Andrade Pacheco Filho

A602 - The chemisorption of propionic and hexanoic acids on the Si(100) (2x1):H : an ab initio analysis

Regina Lélis de Sousa and Marília Junqueira Caldas

A603 - Intercalation of PAMAM dendrimer in ZnAl-LDH

Márcio José dos Reis, Vanessa Prévot, Fabrice Leroux and João Barros Valim

A604 - Synthesis and characterization of new oilwell cement slurries – evaluation of acid attack

Andrea Gois Tavares, Marcos Andrade Junior, Antonio Reinaldo Cestari and Eunice Fragoso Vieira

A606 - Studying the properties of AlPO₄/Polyethylene-g-MA composites

Dilma Alves Costa, Cinthya Helena Souza and Hélio Fernandes Machado

A607 - Analysis of the conduction processes in PVAI/CdS composite

Valdecir Berceli, Hermes Adolfo de Aquino and Haroldo Naoyuki Nagashima

A608 - Assessment of the use of freight inert in manufacture of reinforced plastic

Flávia Roberta dos Santos Masieiro, Viviane do Espírito Santo Souza, Renata Carla Tavares dos Santos Felipe and Raimundo Nonato Barbosa Felipe

A609 - Synthesis and characterization of silver nanoparticles impregnated into bacterial cellulose membrane

Hernane da Silva Barud, Ana L. C. Santos, Philippe C. Oliveira, Luiz C. Santa Maria, Younes Messadeq and Sidney José Lima Ribeiro

A610 - Flexible dye-sensitized solar cells based on ZnO and ZnO:Ga electrodes

Agnaldo de Souza Gonçalves, Marian Rosaly Davolos and Ana Flávia Nogueira

A611 - Crystallization kinetic of the TeO₂ - Nb₂O₅ - Li₂O - V₂O₅ glass system by JMA analysis

Francine Bettio Costa, Silvio Rainho Teixeira, Claudio Luiz Carvalho and Victor Ciro Solano Reynoso

A612 - Voltammetric Study of the composite electrode perfluorinated polymer /Ru-bpy

Eduardo Rodrigues Silva and Marcos Fernando de Souza Teixeira

A615 - Hybrid TiO₂ nanocomposites. obtainment and deposition on a modified gold surface

Eglantina Benavente, Valeria Muñoz, Harold Lozano, Clivia Sotomayor-Torres and Guillermo González

A616 - Mild steel corrosion: effect of a natural biopolymer as inhibitor in simulated concrete solutions by electrochemical techniques

Manoel Martins dos Santos Filho, Almir Mirapalheta and Josealdo Tonholo

A617 - Spontaneous deposition of molybdenum disulfide nanolayer on a gold surface

Eglantina Benavente, Gonzalo Riveros, Nieves Casagn, Pedro Gómez-Romero, Harold Lozano, María Angélica Santa Ana and Guillermo González

A618 - Synthesis and characterization of chitosan/PVA hybrid films chemically modified by glutaraldehyde

Herman S Mansur, Ezequiel S Costa-Jr, Alexandra A P Mansur and Edel F Barbosa-Stancioli

A619 - Thermal Properties of Co doped bentonites

Luiz Fernando Cótica, Mauricio Barabach, Ricardo Yoshimitsu Miyahara, Fauze Jacó Anaissi, Valdirlei Fernandes Freitas and Ivair Aparecido Santos

A620 - Processing and rheology in HDPE/ WOOD flour composites

Cristiano Ribeiro de Santi, Elias Hage Jr, Carlos Alberto Correa and John Vlachopoulos

A621 - Inorganic-organic hybrid resulted from silica gel modified with chelating agents containing nitrogen, oxygen, and sulfur as adsorbents for Cu²⁺, Ni²⁺, and Co²⁺

Maria Gardênnia Fonseca, Ana Fernanda Souza Germano, Vera Lúcia Silva Augusto Filha, Márcia Maria Fernandes Silva, Albaneide Fernandes Wanderley and Luiza Nobuko Hirota Arakaki

A622 - Vermiculite modified with aliphatic amines as adsorbent for heavy cations

Maria Gardênnia Fonseca, Ana Fernanda Souza Germano, Vera Lúcia Silva Augusto Filha, Márcia Maria Fernandes Silva, Albaneide Fernandes Wanderley, Ramon Kennedy Sousa Almeida and Luiza Nobuko Hirota Arakaki

A623 - Structural and morphological study of SBA-15 thin films on different substrates

Silvanna Leite de Albuquerque Maranhão, Alexandre Fassini Michels, Flávio Horowitz, Jivaldo do Rosario Matos and Márcia Carvalho de Abreu Fantini

A625 - Caracterização de danos por impacto de baixa energia em laminados estruturais de alto desempenho

Eurípedes Guilherme Raphael de Almeida, Alan Rodrigo Marinho Gualberto and José Ricardo Tarpani

A626 - Energy absorbed in laminated metal-fiber hybrids for aeronautic use submitted to drop tests

Eurípedes Guilherme Raphael de Almeida, Alan Rodrigo Marinho Gualberto and José Ricardo Tarpani

A628 - Synthesis, structural, microstructural and magnetic characterization and electronic structure calculation of La₂NiMnO₆ produced by combustion method

Pedro Linhares da Cunha Filho, D Landínez Téllez, J Arbez Rodriguez and J Albino Aguiar

A629 - Spin dynamics of a SNAB-glass system probed by Mössbauer spectroscopy

Anselmo Fortunato Ruiz Rodriguez, José Antonio Coaquirá, Elias Oliveira Serqueira, Aderbal Carlos de Oliveira, Vijayendra Kumar Garg, Noelio Oliveira Dantas and Paulo César de Moraes

A630 - BiFeO₃ thin film morphology study considering drying and dewetting

Marcelo de Assumpção Pereira-da-Silva and Maria Inês Basso Bernardi

A631 - Spin Dynamic in quase-one-dimentional An+2Con+103n+3 (A=Ca, Sr, Ba; n=1-7)

Dalber Ruben Sanchez Candela, Armando Dias Tavares, Mariella Alzamora Camarena, Maria M Cindra and Elisa Maria Baggio Saitovitch

A632 - Inclusion of troxerutin in mesoporous

Dráulio Sales da Silva, Rafael Barbosa Martins Nogueira, Ícaro Gusmão Pinto Vieira and Nágila Maria Pontes Silva Ricardo

A633 - Properties of Thermosetting Polymer Nanocomposites

Denise de Souza Pereira, Newton Luiz Dias Filho, Hermes Adolfo de Aquino and André H Rosa

A635 - Study of the Catalytic Potential of Polymeric Membranes Based on PDMS-PVA

Rosalva Santos Marques, Marco Antônio Schiavon, Valdir Mano, Tatiana Cristina de Oliveira Mac Leod and Marilda Dores Assis

A636 - Covalent attachment of 3,4,9,10-perylene diimides and 4-amino-1,8-naphthalimides onto the walls of mesoporous molecular sieves

Fabiane Jesus Trindade, Glauber Turolla Fernandes, Antonio Souza Araujo, Valter José Fernandes Jr, Mario José Politi, Francisco Laerte Castro and Sergio Brochsztajn

A638 - Microhardness and wear strength of microhybrid and nanofilled composite resins for restoration of posterior teeth – an in vitro study

Vitor César Dumont, Cíntia Tereza Pimenta Araújo and Maria Helena Santos

A642 - Correlation between structural characteristics of magnesioferrite obtained via synthesis by combustion

Silvana Da Dalt, Vânia Caldas Sousa and Carlos Pérez Bergmann

SYMPOSIUM B**Polymeric nanocomposites for packaging and other applications in engineering**

MONDAY, SEPTEMBER 29 - POSTER HALL

16:30 - 18:30

B502 - Cure kinetic study of epoxy/silica nanocomposite

André Luiz Jardini, Maria Ingrid Barbosa, Maria Carolina Costa, Edgar Leonardo Martinez and Rubens Maciel Filho

B504 - Polypropylene nanocomposite obtained with different nanofillers

Ana Karina Macedo Garces and Maria de Fátima Vieira Marques

B505 - Influence of raw materials on geopolymeric composites' microstructure and mechanical behavior

Tatiana Borges Skaf, Felipe José Silva and Clelio Thaumaturgo

B507 - Polypropylene nanocomposites using metallocene catalysts supported on organophilic clays

Mônica Couto de Oliveira and Maria de Fátima Vieira Marques

B508 - Surface characterization and transport properties of blown films of HDPE/EVA/MMT nanocomposites

Juliano Marini, Cybele Lotti, Marcia Cristina Branciforti, Rosa Maria Vercelino Alves and Rosario Elida Suman Bretas

B509 - Dispersion of single wall carbon nanotubes in chitosan

Julio Cesar Ximenes, Vânia Maciel Melo and Antônio Gomes Souza Filho

B510 - PP/clay nanocomposites obtained by in situ polymerization with ziegler-natta catalysts

Jeferson Luís da Silva Rosa and Maria de Fátima Vieira Marques

B511 - Polypropylene Nanocomposite: The effect of organoclay modifier

Kelly Silva Santos, Raquel Santos Mauler, Susana Alcira Liberman and Mauro Soto Oviedo

B514 - Nanocomposites of polypropylene/cellulose by in situ polymerization

Juliana do Nascimento Lunz, Maria de Fátima Vieira Marques, Mauro Vinícius Almeida da Silva and Patrícia Libório de Oliveira

B515 - Structure and mechanical properties of polyamide 6/Brazilian clay Nanocomposites

Amanda Melissa Damião Leite, René Anisio Paz, Osanildo Damiao Pereira, Edcleine Maria Araujo and Tomas Alves Melo

B516 - Thermogravimetric characterization of organoclay to be used in nylon 66 nanocomposites

Edcleine Maria Araujo, Kasselyne Dantas Araujo, Tomas Alves Melo and Taciana Regina Gouveia

B517 - Blends of polypropylene and PP-g-MA with nanocomposites of SBS

Patrícia Alves da Silva, Ricardo Vinicius Bof de Oliveira, Paulo Andrade Coutinho and Raquel Santos Mauler

B519 - Morphology and properties of cellulose acetate nanocomposites prepared by extrusion using different clays

Rafaelle Bonzanini Romero, Carlos Alberto de Paula Leite and Maria do Carmo Gonçalves

B520 - Conductivity behavior of poly(styrene-co-vinyl phosphonic acid) membranes

Adney Luís Anjos da Silva, Ana Maria Rocco, Robson Pacheco Pereira and Maria Isabel Felisberti

B521 - Study of thermal conductivity in epoxy resin/carbon nanotube composites

Wellington Marcos Silva, Kássio André Lacerda, Mariane Cristina Schnitzle, Pablo Andrade Grossi, Denise Mercês Camarano, Adelina Pinheiro Santos and Clascídia Aparecida Furtado

B522 - Characterization of thermoplastic polyurethane/clay nanocomposites

Giovanna Machado, Leandro Pizzatto, Rudinei Fiorio, Cintia Lugnani de Amorim, Marcelo Giovaneli, Ademir Jose Zatter and Janaina da Silva Crespo

B525 - The morphology and sorption properties of starch film

Valéria Batista Nunes, Ana Paula Siqueira, Helio Vargas, Alcilene Rodrigues Monteiro, João Borges Laurindo, Carmem Muller and Fábio Yamashita

B526 - Synthesis and characterization of SBR and TiO₂ nanocomposites

Tatiane Moraes Arantes and Emerson Rodrigues Camargo

B527 - Synthesis and characterization of SBR and NBR nanocomposites with synthetic hectorite (Laponite)

Tatiane Moraes Arantes and Emerson Rodrigues Camargo

B528 - Use of micronized castor bean cake from biodiesel production in composites of tapioca starch and glycerol

Leonardo Marinho Fernandes, Carlos Wanderlei Piller Carvalho, José Luis Ramírez Ascheri and Marisa Cristina Guimarães Rocha

B529 - Nanocomposites of polypropylene/graphite

Creusa Iara Ferreira, Susana Alcira Liberman, Mauro Soto Oviedo and Raquel Santos Mauler

B530 - Higher efficiency for PLEDs

Elvo Calixto Burini Junior, Emerson Roberto Santos, Vitor Zaia, Fernando Josepetti Fonseca, Ely Antonio Tadeu Dirani and Adnei Melges de Andrade

B531 - Films of soy protein and cassava flour by extrusion

Juan Antonio Ruano Ortiz, Geisa Oliveira Rocha, Carla da Silva Teba, Carlos Wanderlei Piler Carvalho and José Luis Ramírez Ascheri

B533 - Caracterization of composites of poly(ether-siloxane) hybrid elastomer*Andre Rangel Souza and Wang Shu Hui***B534 – Rheological properties of PBAT/Clay nanocomposites***Laura Goncalves Carr, Marcia Cristina Branciforti and Rosario Elida Suman Bretas***B535 - Cure monitoring of epoxy-organophilic clay composites by dielectric and dynamic mechanical analysis***Mariane Martim Sobrosa Passos de Abreu, Rafaela Garcia Sansevero dos Santos, Carlos Yujiro Shigue, Pedro Carlos de Oliveira, Carlos Alberto Baldan and Ernesto Ruppert Filho***B536 - Measurement of cyanotoxin concentration based on nanostructured sensors***Victor Bertucci Neto, Nelson Consolin Filho, Rodrigo Fernando Pepino, Ednaldo José Ferreira, Luiz Henrique Capparelli Mattoso and Armando Augusto Henriques Vieira***B538 - Electroconductive nanocomposites of graphite-poly (vinyl chloride)***Jefferson Leixas Capitaneo and Maria Inês Bruno Tavares***TUESDAY, SEPTEMBER 30 - POSTER HALL****16:30 - 18:30****B512 - Morphological study on polypropylene nanocomposites obtained by melt intercalation***Sabrina Barros Nabuco de Araújo and Maria de Fátima Vieira Marques***B539 - Preparation and characterization of organophilic montmorillonite/poly (vinyl chloride) nanocomposite***Jefferson Leixas Capitaneo and Maria Inês Bruno Tavares***B541 - Investigation of morphology, thermal and mechanical properties of PVC/POSS nanocomposites***Rodrigo Pinheiro da Silva, Cleia de Andrade Salles, Edson Francisquetti, Alexandre Melhado and Ricardo Vinicius Bof de Oliveira***B543 – Chemical treatment of kaolinite nonoclays***Tharsia Cristiany de Carvalho Costa, Carlos Alberto Paskocimas, José Daniel Diniz Melo and Neyde Tomazin Floreto***B545 - Nanostructure and rheological properties of epoxy Network modified with liquid polybutadiene***Verônica Dionisio de Lima, Fábio Ladeira Barcia, Soraia Zaioncz and Bluma Guenther Soares***B547 - Effect of the Processing in PE/PE-g-MA/Organoclay Nanocomposites***Luana Rodrigues Kojuch, Renata Barbosa, Edcleine Maria Araujo and Tomás Alves Melo***B548 - Preparation and reactional evaluation of PVP K-30 - bentonite nanocomposites***Camila Braga Dornelas, Daniel Karl Resende, Lúcio Mendes Cabral, Maria Inês Bruno Tavares and Aílton de Souza Gomes***B550 - Effect of acrylic acid incorporation in the thermal properties of PMMA-epoxy nanocomposites prepared by in situ emulsion polymerization***Adriana dos Anjos Silva and Bluma Guenther Soares***B551 - Morphological and mechanical properties of Polypropylene/Montmorillonite nanocomposites compatibilized with Poly (ethylene-co-vinyl acetate)***Charles Dal Castel, Susana Alcira Liberman, Mauro Alfredo Soto Oviedo, Ricardo Vinicius Bof de Oliveira and Raquel Santos Mauler***B553 - Development of biodegradable nanocomposite of Poly(3-hydroxybutyrate) and starch nanocrystals***Ana Paula da Silva Nascimento and Rossana Mara da Silva Moreira Thiré***B554 - Optical characterization of PMMA thin films doped with CdS by UV-Vis spectroscopy***João Borges da Silveira, Fabrícia Roberta Lunas, Anderson José Silva Maurity, Cláudio Luiz Carvalho, Keizo Yukimitu, João Carlos Silos Moraes and Victor Ciro Solano Reynoso***B555 - Preparation of modified montmorillonite with benzalconium, benzethonium or cetylpyridinium chloride for a possible use in processing of PVC***Daniel Karl Resende, Camila Braga Dornelas, Lúcio Mendes Cabral, Luiz Alberto Simeoni, Maria Inês Bruno Tavares and Ailton de Souza Gomes***B556 - Viscoelastic properties of PP/POSS nanocomposites***Otávio Bianchi, Leonardo Bresciani Canto, Raquel Santos Mauler and Ricardo Vinicius Bof de Oliveira***B557 - Functionalisation of Al2O3 nanoparticles with organosilanes for development of polymer nanocomposites***Luis Antonio Sanchez de Almeida Prado, Montyra Sriyai, Marcos Ghislandi, Hans Wittich, Ana Barros-Timmons and Karl Schulte***B558 - Mechanical properties of recycled PBT and modified organophilic clay nanocomposites prepared by melt intercalation***Diego de Holanda Saboya Souza, Noe Benjamin Pampa-Quispe, Julio Roberto Bartoli, Edson Noriyuki Ito and Victor Jayme Roget Rodriguez Pita*

B559 - Processing in a co-rotating twin-screw extruder: role of screw speed on mechanical properties of thermoplastic starch hybrids

Érica da Cruz Faria, Leonardo Bresciani Canto and Cristiba Tristão Andrade

B560 - Properties of SBR/NR and NBR/SBR clay nanocomposite blends prepared by dispersion shear blending

Arlete Tavares Almeida, Julio Cesar Pestana and Emerson Merighi

B562 - SiO₂ functionalisation towards improved chitosan based nanocomposite films

Ana Margarida Madeira Viegas de Barros-Timmons, Fabiane Costa Oliveira and José António Lopes-da-Silva

B563 - Epoxy/montmorillonite nanocomposite: effect of the dispersion method on the thermal stability, dynamic mechanical properties and on degree of exfoliation

Dilson da costa Maia Filho and Bluma Guenther Soares

B564 - Intercalation and Exfoliation in Clay-Containing Nanocomposites of Linear Block and Starblock Copolymers

Danilo Justino Carastan, Iris Linares Torriani and Nicole Raymonde Demarquette

B566 - Morphological study of poly (3-hydroxybutyrate-co-hydroxyvalerate) reinforced with nano and micro crystalline cellulose

Ana Paula Lemes, Rafael Gonçalves, Ana Maria Moretti, Priscyla Danielly Marcato and Nelson Durán

B571 - Rheological, dielectric and mechanical analysis of epoxy micronized talc composites

Carlos Yujiro Shigue, Simone Santos Afonso, Mariane Martim Sobrosa Passos de Abreu, Pedro Carlos de Oliveira, Carlos Alberto Baldan and Ernesto Ruppert Filho

B572 - Physical tests of composites produced by mixture of natural rubber with leather residue

Elton Aparecido Prados dos Reis, Rosângela Conrado and Aldo Eloizo Job

B573 - Bacterial cellulose-polyurethane nanocomposites

Elaine Ruzgus Pereira Pinto, Hernane Barud, Wagner Luiz Polito, Younes Messadeq and Sidney José Lima Ribeiro

B574 - Effect of vermiculite on the morphological and thermal properties of polypropylene composites prepared via melt intercalation

Elaine Vidal Dias, Élen Acordi Vasques and Leila Lea Yuan

B575 - Thermal stability ans barrier properties behaivor of HDPE nanocomposite

Tatiane Cordeiro Rodrigues, Victor Pita, M C Carrera, H A Destáfanés, Maria Inês Bruno Tavares, E Erdmann and Marcos Lopes Dias

B576 - Functionalization and cleavage of natural rubber by periodic acid in tetrahydrofuran solution

Ricardo Báfica and Bluma Guenther Soares

B577 - Effects of organophilic montmorillonite on glass transition temperature and rheology of epoxy resin networks

Soraia Zaioncz, Karim Dahmouche and Bluma Guenther Soares

SYMPOSIUM C
Mechanical properties of surfaces, thin films and coatings

TUESDAY, SEPTEMBER 30 - POSTER HALL

16:30 - 18:30

C501 - Influence of electrolyte constitution in the properties of polypyrrole electrodeposited on aluminum surfaces

Andrea Santos Liu and Maria Auxiliadora Silva Oliveira

C503 - Surface roughness influence on the interfacial contact resistance of PEMFC metallic bipolar plates

José Geraldo de Melo Furtado, Fernando Rodrigues da Silva Junior, Paulo Emílio Valadão de Miranda, Guilherme Fleury Wanderley Soares and Eduardo Torres Serra

C504 - Formation of thin films of polyaniline/poly(vinylsulfonic acid, sodium salt) on AA2024 alloy by self-assembly technique

Everton Carlos Gomes and Maria Auxiliadora Silva Oliveira

C506 - PVC reinforced with scrap "release liners" A Recycling Study

Simone Rodrigues Ribeiro and Leila Peres

C508 - Effect of plasma nitriding and nitrocarburizing in corrosion and wear resistance

Neide Aparecida Mariano, Arnaldo Sydney Pallone, Rafael Gonçalves Oliveira, Marcus Galende and Gilberto Ranalli

C509 - Erosion-oxidation behavior of steels AISI 1020, 410, 304, 310 and HVOF coatings of Ni20Cr and Cr3C2-25(Ni20Cr)

Lalgudi Venkataraman Ramanathan, Stela Maria Carvalho Fernandes, Olandir Vercino Correa, Clarice Terui Kunioshi and Armando Padial

C510 - Energy-based method to determine surface hardness by instrumented indentation

Gelson Biscaia de Souza, Alexandre Mikowski and Carlos Maurício Lepienski

C512 - Tribological effects of plasma immersion ion implantation heating treatments on SS 304 stainless steel

Carina Barros Mello, Mario Ueda, Alisson da Silva Geraldo, David Pereira Nascimento, Carlos Maurício Lepienski and Helfried Reuther

C514 - Tribological properties of DLC deposited by magnetron sputtering and plasma immersion ion implantation and deposition

Lilian Hoshida, Carina Barros Mello, Rogério Moraes Oliveira, Mario Ueda and Marcos Massi

C515 - Miscible blends of linear and crosslinked polymers for shape memory assisted self-healing (SMASH)

Erika D Rodriguez, Xiaofan Luo and Patrick T Mather

C516 - New Semicrystalline blend networks as shape memory polymers: An inter-american collaboration

Erika D Rodriguez, Taekwoong Chung, Xiaofan Luo, Patrick T Mather, Bonifacio Alvarado Tenorio, Angel Romo-Uribe and Shaun Miller

C517 - Deposition of diamond-like carbon (DLC) by sputtering to modify the surface characteristics of an anticorrosive polymeric coating

Peter Lubomir Polak, Nelson Ordonez and Ronaldo Domingues Mansano

C520 - Polythiophene films on aluminum alloy

Nestor Henrique Carvalho Aguiar, Andréa Santos Liu and Liu Yao Cho

C524 - A comparative study of M2 high speed steel nitrided with DC and RF plasma processes

Cesar Henrique Wanke, Saulo Cordeiro Lima, Marcos Antonio Zen Vasconcellos and Ruth Hinrichs

C528 - Optimization of the gaseous carbonitriding parameters of a chilled gray cast iron

Gabrieli Borges Ugioni, Cristina Peruchi Dário, Márcio Roberto Rocha, Márcio Antonio Fiori and Elidio Angioletto

C529 - Development of qualitative standards for quality control of nitrided and chilled cast irons

Cristina Peruchi Dário, Gabrieli Borges Ugioni, Márcio Roberto Rocha, Márcio Antonio Fiori and Elidio Angioletto

C530 - Photoexpansion and photobleaching in oxyshulphide films

Alessandra Carla Mendes, Máximo Siu Li, Sandra Helena Messadeq, Younes Messadeq, Antônio Ricardo Zanatta and Lauro June Queiroz Maia

C531 - Electrical and mechanical properties of ITO thin films investigated by cantilever deflection technique

Luiz Antônio Rasia, Ronaldo Domingues Mansano, Larissa Rodrigues Damiani, Carlos Eduardo Viana, Nelson Ordonez and Luis da Silva Zambom

C533 - The influence of gas composition on the TiNx stoichiometry of plasma nitrided Ti6Al4V

Saulo Cordeiro Lima, Cesar Henrique Wanke, Marcos Antonio Zen Vasconcellos and Ruth Hinrichs

C534 - Tribological characterization of nano-structured diamond-like carbon films

Ronaldo Domingues Mansano and Ana Paula Mousinho

C540 - Study of the Hf-O phase system by DC and Rf magnetron sputtering deposition

André Luís Marin Vargas, Eduardo Blando and Roberto Hubler

C541 - The role of hydrogen and carbon on the water vapor incorporation in SiO₂ films thermally grown on SiC and on Si

Gabriel Vieira Soares, Israel Jacob Rabin Baumvol, Silma Alberton Corrêa, Cláudio Radtke and Fernanda Chiarello Stedile

C542 - Surface energy, wettability and bactericidal properties of DLC films modified with oxygen plasma

Fernanda Roberta Marciano, Luís Francisco Bonetti, Newton Soares da Silva, Evaldo José Corat and Vladimir Jesus Trava-Airoldi

C543 - Mechanical characterization in AISI 1010 steel treated by plasma thermochemical process

Antonio Jorge Abdalla, Vladimir Henrique Baggio-Scheid, Carlos Antonio Reis Baptista and Miguel Justino Ribeiro Barboza

C547 - A comparison of DLC film properties obtained by r.f. PACVD, IBAD, and enhanced pulsed-DC PACVD

Luis Francisco Bonetti, Gil Capote Rodriguez, Vladimir Jesus Trava-Airoldi, Evaldo José Corat and Lucia Vieira Santos

C548 - Mechanical and structural properties of nitrogen-doped SiC films deposited by RF magnetron sputtering

Mariana Amorim Fraga, Marcos Massi, Ivo Castro Oliveira, Nilson Cristino da Cruz and Homero Santiago Maciel

C550 - Influence of plasma nitriding parameters on resistance corrosion of stainless steel 316L

Marcelo Campos, Maristela Olzon-Dionysio, Sylvio Dionysio de Souza, Mario Sergio Vinicius Kapp and Solange de Souza

C553 - Nucleation and grain growth in nanostructured mosaic-like Al films

Flavia Piegas Luce, Paulo Fernando Papaleo Fichtner, Luiz Fernando Schelp and Fernando Claudio Zawislak

C561 - Numerical simulation of nanoindentation and comparison with experimental results of hard metal and TiN film

José Divo Bressan and Carlos Maurício Lepiensi

C564 - Influence of plasma nitriding working pressure and correlated phase formation in the corrosion resistance of stainless steel ASTM F138

Mario Sergio Vinicius Kapp, Sylvio Dionysio de Souza, Maristela Olzon-Dionysio, Marcelo Campos and Solange de Souza

C568 - Characterization of TiN/MoS₂ thin films for wear applications

Eduardo Kirinus Tentardini, Alvaro Piccoli Morés, Eduardo Blando, Roberto Hubler and Israel Jacob Rabin Baumvol

C569 - Atomic transport and chemical reaction in TiN/Ti nanolayers on plasma nitrided steel

Cesar Aguzzoli, Eduardo Kirinus Tentardini, Carlos Alejandro Figueroa, Carlos Kwietniewski, Leonardo Miotti and Israel Jacob Rabin Baumvol

C570 - Observation of displacement bursts induced by sample preparation of a duplex stainless steel

Margareth Spangler Andrade, José Mário Carneiro Vilela, Nilton José Lucinda de Oliveira and Célia Regina Oliveira Loureiro

C574 - Treatment corona on surfaces fabrics cotton

João Batista Giordano and João Sinézio de Carvalho Campos

C575 - Reduction of the friction coefficient of titanium alloy by nitrogen plasma immersion implantation

Graziela da Silva, Mário Ueda, Choyu Otani and Carina Barros Mello

C578 - Friction and wear of nitrogen ion implantation and plasma immersion ion implantation on AISI 304 stainless steel

Francisco Carlos Serbena, Andressa Cristiane Zaika, Carlos Eugênio Foerster, Carlos Maurício Lepiensi, Paulo César Soares Júnior, José Luiz Guimarães and Mário Ueda

C579 - Mechanical properties of Ag-doped Top-seeded melt-grown YBCO pellets

Carlos Eugênio Foerster, Emerson Lima, Pedro Rodrigues Jr, Francisco Carlos Serbena, Carlos Maurício Lepiensi, Maurício Pereira Cantão and Alcione Roberto Jurelo

C581 - Hardness and elastic modulus analysis in nanocomposites dental materials by nanoindentation tests

Juliana Antonino de Souza, Sergio Camargo, Rodrigo Prioli, Clara Muniz Almeida and Marta Dotto

C582 - Electrochemical effect of sam addition in SNO₂ thin films doped with Nb205

Cintia de Fáveri, Sandra Regina Masseto Antunes, Aline Viomar and Paulo Rogério Pinto Rodrigues

C583 - Study of the behavior of sam's for aluminumalloy AA-5052

Mariana Carvalhaes Gallo, Aline Viomar, Maico Taras da Cunha, Isolda Costa and Paulo Rogerio Pinto Rodrigues

C596 - Effects of the hydrogen replacement by deuterium in structural and mechanical properties of hydrogenated amorphous carbon films

Marcelo Eduardo Huguenin Maia da Costa, Marta Elisa Rosso Dotto and Fernando Lázaro Freire Júnior

C648 - Confinement effect in nanocrystalline diamond from Raman spectroscopy

Sandra Cristina Ramos, Patrícia Guimarães Abramof, Adriana Faria Azevedo, Maurício Ribeiro Baldan and Neidenei Gomes Ferreira

C650 - Nanomechanics of surface modified nanohydroxyapatite biomaterials

Rohit Khanna, Kalpana S Katti and Dinesh R Katti

C652 - Characterization of carbon films prepared by Pulsed laser deposition

Carlos Manuel Sanchez Tasayco and Dante Ferreira Franceschini Filho

WEDNESDAY, OCTOBER 01 - POSTER HALL

16:30 - 18:30

C584 - Effect of substrate temperature on structural and morphological properties of Reactive Magnetron Sputtered Chromium Nitride (CrN) hard coatings

Ashok Karunanithi, subramanian tsp, kuppusami pk, sanjeeviraja cs and jayachandran mj

C587 - Plasma treatment of polyester and sisal cellulose reinforced polyester composites

Jane Maria Faulstich de Paiva, Débora Arantes Campos Mourão, Antonio Riul Júnior, Elidiane Cipriano Rangel and Nilson Cristina da Cruz

C588 - Mechanical and tribological properties of Ti-DLC films evaluated by pin-on-disk tests in two different environments

Emanuel Santos Jr, Sérgio Souza Camargo Jr, Glória Almeida Soares and Marie-Paule Delplancke-Ogletree

C589 - Mechanical and tribological properties of a new glass-ceramic cooktop plate and a commercial plate

Silvio Buchner, Viviane Oliveira Soares, Paulo César Soares Júnior, Edgar Dutra Zanotto, Oscar Peitl Filho and Carlos Maurício Lepiensi

C593 - Investigation of the PI/PEEK composite interphase by thermal analysis

Leandro Barretti Olivo, Liliana Burakowski Nohara, Evandro Luís Nohara and Mirabel Cerqueira Rezende

C594 - Hardness of superficial modified layers in AISI 304 steel nitrocarburizing at different times and temperatures by glow discharge process

Fabiana Cristina Nascimento, Carlos Maurício Lepienski, Carlos Eugênio Foerster and Silvio L R da Silva

C595 - Roughness study of Ti-6Al-4V alloy, treated by plasma immersion Ion implantation at high temperature, by atomic force microscopy

Maria Margareth da Silva, Mario Ueda and Walter Miyakawa

C597 - Comparative study of mechanical properties of expanded austenite in nitrided stainless steels

Fabiana Cristina Nascimento, Carlos Maurício Lepienski, Carlos Eugênio Foerster and Silvio L R da Silva

C598 - Adhesion of CVD diamond films on hard metal (WC-Co): effect of Ti – Si interlayers and high pressure-high temperature treatment

Jesum Alves Fernandes, Rafael Vieira Camerini, Felipe de Carli, Eduardo Blando, Roberto Hubler, Altair Soria Pereira and Naira Balzaretti

C600 - High hardness coating of Y-PSZ zirconia

Raquel Milani, Gabriel Vieira Soares, Cintia Lugnani de Amorin, Naira Maria Balzaretti, Cláudio Antônio Perottoni and Janete Eunice Zorzi

C601 - Structural and mechanical study of vanadium carbide hard thin films obtained by reactive magnetron sputtering

Carlos Alejandro Figueroa, Eduardo Portolan, Gabriel Soares, Leonardo Miotti, Cíntia Amorim, Eduardo Blando and Israel Baumvol

C602 - Influence of time and distance between the needle and the plane on surface modification of natural rubber by corona discharges

Fabricio André Buzeto and João Sinézio de Carvalho Campos

C606 - Properties of DLC:H-Si e DLC:H films deposited on aluminium-silicon casting alloy

Marco Polo Agra Stamato Santos and Sérgio Souza Camargo Jr

C607 - Mechanical properties of polymers measured by nanoindentation with pyramidal indenters

Elaine Cristina de Azevedo, Carlos Maurício Lepienski, Salvador Claro Neto and Gilberto Orivaldo Chierice

C611 - Low energy plasma modification of polypropylene surface

Alan Pereira Kauling, Gabriel Soares, Carlos Alejandro Figueroa, Ricardo Bof Oliveira, Israel Baumvol, Cristiano Giacomelli and Leonardo Miotti

C613 - Matrix composite of polyester and strengthening of fiberglass, how far can have contact with petroleum

Camilla de Medeiros Dantas, Flávia Roberta dos Santos Masieiro, Renata Carla Tavares dos Santos Felipe and Raimundo Nonato Barbosa Felipe

C615 - Effect of aging on the hardness of Ti-10Mo-20Nb alloy

Sinara Borborema Gabriel, Carlos Angelo Nunes and Glória Almeida Soares

C616 - Relationship between mechanical properties, optical constants and erosion rate of hollow-cathode plasma-deposited a-C:H films

Dante Ferreira Franceschini, Fabiano Pinto Pereira, Dácio Moreira de Souza, Aline de Lima Vieira and Calos Tasayco Sánchez

C617 - Diamond films chemical vapor deposition on cemented carbides using vanadium carbide interface

Danilo Maciel Barquete, Evaldo José Corat, Raonei Alves Campos and Vladimir Jesus Trava-Airoldi

C618 - Diamond Films Chemical Vapor Deposition on Cemented Carbides Using Boride Interface

Raonei Alves Campos, Evaldo José Corat, Danilo Maciel Barquete, Elilton Rodrigues Edwards and Vladimir Jesus Trava-Airoldi

C619 - Elastic modulus of TiO₂ anodic films measured by instrumented indentation

Alexandre Mikowski, Gelson Biscaia de Souza, Eduardo Mioduski Szesz, Gabriel Goetten de Lima, Paulo Soares, Carlos Maurício Lepienski and Neide Kazue Kuromoto

C620 - Structural relaxation of nanometer-sized deformations produced by single ion impacts on PC thin films

Rafael Gustavo Torres Leal, Zahra Fakhraai and Ricardo Meurer Papaléo

C621 - Effect of tungsten carbides on of Fe/Al intermetallic coatings

Gabriel Lara Mariano and Ana Sofia Monteiro D’Oliveira

C622 - The inhibitor or catalytic effects of corrosion for cistein behavior in the SS 304 in HCl

Aline Viomar, Elisangela de Souza Lima, Eliane Delia, Maico Taras da Cunha and Paulo Rogério Pinto Rodrigues

C625 - Titanium coating morphology

Ana Paula Vaz, Ramón Cortés Paredes
and Neide Kazue Kuromoto

C627 - Diamond-coated Si₃N₄ ceramic tool and dry machining of compacted graphite iron

José Vitor Cândido Souza, Maria do Carmo Andrade Nono, Sérgio Luis Mineiro, Olivério Moreira Macedo Silva and Marcos Valério Ribeiro

C629 - Production and characterization of modified amorphous carbon coatings on AISI4340 carbon steel substrates

René Frank Vianna Brenes and Sérgio Souza Camargo Jr

C630 - Nanoindentation studies on a dental composite material

Liliane Canuto Dolavale, Paulo César Soares Júnior, Carlos Maurício Lepienski and Sérgio Souza Camargo Jr

C631 - High Purity CVD diamond grown in HFCVD reactor and purified in MWCVD plasma reactor

João Roberto Moro, Amauri Amorim, Evaldo José Corat, Vladimir Jesus Trava-Airoldi and Luis Francisco Bonetti

C632 - Adhesion measurement of sputtered Cu thin film on BOPP

Alexandre Luis Gasparin, Israel Jacob Rabin Baumvol, Regina Celia Reis Nunes Eduardo Kirinus Tentardini

C637 - Plasma deposited adsorbent materials produced by intermixing of organic silicon and fluorinated compounds

Roberto da Rocha Lima, Alexander Tressino Carvalho, Caio Herrera Teixeira, Hélio Minoru Amemiya and Maria Lúcia Pereira da Silva

C638 - Composite of plasma deposited thin films and particles obtained in a single step

Roberto da Rocha Lima, Rodrigo Amorim Motta Carvalho, Lilian Marques Silva and Maria Lúcia Pereira da Silva

C639 - Evaluation of addition calcium carbonate on mechanical,

Maira de Lourdes Rezende, Derval dos Santos Rosa, Cristina Das Graças Fassina Guedes and Guilhermino José de Macêdo Fechine

C640 - Influence of plasma nitriding and PVD Cr-Al-N coating deposition on the AISI 4140 steel superficial roughness

Rafael Drumond Mancosu, Cristina Godoy and Sandra Goulart Santos

C641 - Influence of the superficial roughness on Cr-Al-N coating hardness values measured at low indentation depths

Rafael Drumond Mancosu, Cristina Godoy, Sandra Goulart Santos and Tiago Ornelas

C642 - Effect of the environment on the tribological behaviour of a Si rich DLC - Raman spectroscopy characterization

José Daniel Diniz Mello, Gisele Hammes and Aloisio Nelmo Klein

C643 - Wear and corrosion behavior of plasma nitrided high chromium martensitic stainless steel

Raul Charadia, E Dalibon and S P Bruhl

C644 - Tribological evaluation of plasma nitrided components used in hermetic compressors

Cristiano Binder, Roberto Binder, Jose Daniel Mello and Aloisio Nelmo Klein

C649 - On the evaluation of interlaminar shear strength of carbon fiber/PEEK composite manufactured by using two different processing techniques

Liliana Burakowski Nohara, Andreza Moura, Evandro Luís Nohara and Mirabel Cerqueira Rezende

SYMPOSIUM D**Powder processing of novel materials****TUESDAY, SEPTEMBER 30 - POSTER HALL**

16:30 - 18:30

D501 - Obtention of stainless steel sintered microparts by the Powder Injection Molding Process

Fidel Romel Espinoza, Marcos Eufébio Espinoza, Gerhard Hans Knörnschild, Rafael Brufatto Vagliatti, Diógenes Adriano Justo, Luis Antônio Bocchi and Moisés Mattos Dias

D502 - Effect of niobia on the Al₂O₃-YAG composite sintering

Ricardo de Freitas Cabral, Eduardo de Sousa Lima, Luís Henrique Leme Louro, Marcelo Henrique Prado da Silva, José Brant de Campos and Carlos Roberto Corrêa da Costa

D503 - Effect of the fuel type on the synthesis of yttria-stabilized zirconia by combustion method

Mariana de Mattos Vieira Mello Souza, Crisitiane Abrantes Silva, Nielson Fernando da Paixão Ribeiro and José Geraldo de Mello Furtado

D504 - Effect of combustion flame temperature on the synthesis of Sr-doped LaMnO₃ powders

Mariana de Mattos Vieira Mello Souza, Leandro Conceição, Camila Roberta Bueno Silva, Nielson Fernando da Paixão Ribeiro and José Geraldo de Mello Furtado

D505 - Powder characterization of JSC-1 lunar soil simulant

Jose Roberto Martinelli, Signo Tadeu dos Reis, Thiago Alexandre Assunção, Francisco Araujo Bonfim, Davinson Mariano da Silva, Walter Maigon Pontuschka and Chandra Ray

D506 - Influence of calcination temperature in the combustion synthesis of cathodes for IT-SOFC

Nielson Fernando da Paixão Ribeiro, Camila Roberta Bueno Silva, Leandro Conceição, José Geraldo de Mello Furtado and Mariana de Mattos Vieira Mello Souza

D507 - Powder vermiculite-based glass-ceramics: Physical-chemical properties

Daniele Henrique Martinelli, Carlos Neco Júnior, Dulce Maria de Araujo Melo, José Expedito Silva, Jardeilde Rosendo Amaral and Patricia Mendonça Pimentel

D508 - WC nanopowders HPHT sintering

Marcello Filgueira and Lidiane Hott Borges

D511 - Effect of seeding on the synthesis of B4C by the carbothermic reduction route

Rosa Maria Rocha, Jonas Soares Gutierrez and Francisco Lourenço Melo

D512 - Study of ceramic materials with kaolin addition

Wilson Acchar and Lana Lopes Souza

D513 - Fracture behavior of ceramometal dental joints

Andrea Medeiros Aladim de Araujo, Antônio Eduardo Martinelli, Rubens Maribondo Nascimento, Dulce Maria de Araujo Melo, Luis Augusto Marques da Rocha and Edith Ariza Ávila

D514 - 3D Structuring of materials with rapid prototyping – A new challenge to material researchers

Izaque Alves Maia, Marcelo Fernandes Oliveira and Jorge Vicente Silva

D515 - Dispersion of cobalt ferrite in barium titanate matrix and its effect on electric and magnetic properties

Liliam Viana Leonel, Juliana Batista Silva, Walter Brito and Nelyc Della Santina Mohallem

D516 - W-25Cu nanocomposite synthesis by high energy milling and Rietveld's method quantified

Werson Magno De Carvalho, Franciné Alves Da Costa, Uílame Umbelino Gomes, Marciano Furukava and José Marcos Sasaki

D518 - Characterization of a synthetic zeolite for gas adsorption

Gisele Souza Alves and Antonio Luz Lisbôa

D519 - Production of TiN coatings by electron beam physical vapor deposition

Vinicius Rodrigues Henriques, Carlos Alves Cairo and Eduardo Tavares Galvani

D520 - Influence of fuel in the LaCrO₃ combustion synthesis

Adney Luís Anjos da Silva, Mariana Vieira de Mattos Mello Souza and Ana Maria Rocco

D521 - The study of the BiFeO₃ grain sizes made by different synthesis methods

Luiz Augusto Sousa de Oliveira, João Paulo Sinnecker, Meri Domingos Vieira and Patricia Silva Gonçalves de Mello

D523 - Ecotoxicological analisys of glasses obtained from fly ashes

Adriano Michael Bernardin, Aline Silva Pereira, Maisa Topanotti Daros, Samuel Amboni Duminelli, Edison Uggioni and Humberto Gracher Riella

D524 - Microstructural evolution of fast firing soft porcelain

Adriano Michael Bernardin, Humberto Gracher Riella and Elita Urano Carvalho

D526 - Mechanical properties of hot-pressed ZrO₂-(W,Ti)C

Wilson Acchar

D528 - Thermal shock of SiC porous ceramics obtained by replication method

Wagner Lopes Torquato, Wilson Acchar, Eduardo Galvão Ramalho, Feranando Barcelos Souza and Antonio Silva Costa

D529 - Mechanical properties of a lithium glass ceramic matrix (LZSA) reinforced with TiC and (W,Ti)C particles

Wagner Lopes Torquato and Wilson Acchar

D530 - Structural investigation by the Rietveld method of TiO₂ modified Gd₂O₃/CeO₂ matrix

Rafael Innocenti Vieira da Silva, Juliana Catarina Bruno, Alberto Adriano Cavalheiro, Margarida Juri Saeki and Ariovaldo de Oliveira Florentino

D531 - Influence of oily waste of petroleum industry incorporation in mass ceramic physical-mechanical properties

Felipe Lira Formiga, Rannier Marques Mendonça, Pedro Alighieri Silva Araújo, Tharsia Cristiany de Carvalho Costa, Ricardo Peixoto Suassuna Dutra, Rubens Maribondo Nascimento and Carlos Alberto Paskocimas

D533 - Third-Order nonlinear optical properties of thin films of ZnO by thermally managed eclipse Z-scan

Jorlandio Francisco Felix, Francisco Eroni dos Santos, Walter Mendes de Azevedo and Eronides Felisberto Da Silva Junior

D534 - Comparison of the particles size by the method of equivalent diameter, Martin and Ferret diameters for iron and copper powders

Narayanna Marques Ferreira and Jorge Magner Lourenço

D535 - Bi4Ge3O12 ceramic scintillators produced by pechini synthesis

Fabiane Aleksandra Jesus, Ronaldo Santos da Silva and Zélia Soares Macedo

D537 - Al-SiCp functionally graded nano/micro composites produced by powder technology: Influence of the reinforcement size on the structure and mechanical properties

Luís Augusto Rocha and Ana Catarina Vieira

D539 - Microstructural analysis and powder x-ray diffraction study of Ni_{2.18}Mn_{0.82}Ga Heusler alloys obtained by high-energy ball milling

Yuri Vinicius Bruschi de Santana, Ivair Aparecido santos and Luiz Fernando Cótica

D540 - Phase transitions and magnetocaloric effect in mechanically processed Ni_{2.18}Mn_{0.82}Ga Heusler alloys

Yuri Vinicius Bruschi de Santana, Ivair Aparecido Santos and Maurício Antonio Custódio de Melo

D542 - Physical-mechanical and microstructural characterization of niobium hydroxyapatite composite

Walter Moreira Lima, William Junior Nascimento, Wilson Ricardo Weinand, Antonio Carlos Bento and Mauro Luciano Baesso

D543 - Micropore quantitative microscopy in TiO₂ ceramics formed with polysaccharide and protein

Jerusa Goes Aragão Santana, Emerson Ferreira de Lucena and Elson de Campos

D544 - Microstructural variation in ceramic floor tile incorporated with granitic rock waste

José Nilson França Holanda, Antônio José Souza, Bruno Carlos Alves Pinheiro and Angelus Giuseppe Pereira Silva

D545 - Preparation of metal alloys using as source material for aluminium packaging recyclable by the powder metallurgy

Paulo Jesus Costa Esteves, Kalionara Freitas and Rodrigo Estevam Coelho

D546 - SIC and B4C reinforced glass-ceramic composites

Francisco Cristovão Lourenço Melo, Antonio Pascoal Del' Arco Júnior and Tetunori Kajita

D547 - Correlation between the temperature and the activity photocatalytic of nanoparticulate TiO₂ in organic dyes degradation

Marcelo Machado Viana and Nelcy Della Santina Mohallem

D548 - Preparation and characterization of nanoparticles of lithium aluminate using coprecipitation and sol-gel process as routes of synthesis

Aurellis Carvalho Nascimento and Nelcy Della Santina Mohallem

D549 - Zirconia fibers growth from swollen liquid crystal templates

Fernanda Gabriel Freitas, Victor Hugo Vitorino Sarmento, Sandra Helena Pulcinelli and Celso Valentim Santilli

D550 - Microstructural characterization of ZrO₂-Nb₂O₅-Al₂O₃ ceramic by SEM and XRD

Sergio Luiz Mineiro, Maria do Carmo Andrade Nono and José Vitor Cândido de Souza

D551 - Refinement of Poly(o-methoxyaniline) studied by Profile Matching Method

Edgar Aparecido Sanches, Graziella Trovati, Juliana Coatrini Soares and Fábio Lima Leite

D552 – Correlation of electrical behavior with microstructure of**Bi₁₂TiO₂₀ ceramics**

Denise de Jesus Santos and Zélia Soares Macedo

D554 - Inactivation of pseudomonas using titanium dioxide modified with silver (Ag/TiO₂)

Jomilson Moraes dos Santos, Priscilla Kelliny Aparecida, Juliana Catarina Bruno, Alberto Adriano Cavalheiro, José Pedro Serra, Vera Lucia Mores and Margarida Juri Saeki

D556 - Characterization of the ceramic block the basis of barite and clay for shielding from radiation-X. Part 1 - manufacturing

Priscylla Alves Gondim, Uílame Umbelino Gomes, Elânia Maria Fernandes and Cláwsio Cruz Sousa

D557 - Technological properties of the ceramic brick the base barite and clay and subjected to different cycles of burning

Priscylla Alves Gondim, Uílame Umbelino Gomes, Elânia Maria Fernandes and Cláwsio Cruz Sousa

D559 - Synthesis of La_{0.50}Li_{0.50}TiO₃ by the polymeric precursor method

Silvia Letícia Fernandes, Alejandra Hortencia Miranda González, Mário Sérgio Galhiane and Lucídio de Souza Santos

WEDNESDAY, OCTOBER 01 - POSTER HALL

16:30 - 18:30

D560 - Obtaining and characterisation of Al₂O₃-ZrO₂ nanocomposite

Eliria Maria de Jesus Agnolon Pallone, Katia Leticia da Silva, Nadetsa R Tedesco and Roberto Tomasi

D561 - Electrical conductivity and microstructure by Rietveld refinement and IR absorption spectroscopy of doped Cu-Ni alloys

Juan Alfredo Guevara Carrió, Waldemar Alfredo Monteiro, Vicene Alonso Rodrigues, Affonso Sergio Fambrini, Mauro César Terence and Terezinha Jocelen Mason

D566 - Glass-ceramic from sugar-cane bagasse (SCBA) ash: SCBA-CaO-Na₂O

Silvio Rainho Teixeira, Maximina Romero Pérez and Jesús María Rincón

D567 - Use of calcined clay in concrete

Lúcio Eugênio de Souza Consales, Antonio Hortencio Munhoz Jr, Waldemar Alfredo Monteiro and Alexandre R Zandonadi

D568 - Influence of concentration, thickness and growing rate in the optical quality of CuBr doped KBr material

Ligia Oliveira Ruggiero

D570 - Mechanical behavior of Alumina-ZrO₂ porous ceramic obtained by replication method

Eduardo Galvão Ramalho, Wilson Acchar, Wagner Lopes Torquato, Fernando Barcelos Marcolino Souza and Antonio Carlos Silva Costa

D571 - Characterization of raw material to new dielectric porcelain content high amount potassium

Elialdo Chibério da silva, Uílame Umbelino Gomes, Wilson Acchar, Nagib Francisco da Silva, Marcos Antônio Dias de Almeida and José Ferreira da Silva

D573 - Crystalline phase quantification in LZS glass-ceramics

Antonio Pedro Novaes Oliveira

D574 - Sintered LZSA glass-ceramics

Oscar Rubem Klegues Montedo, Fernando Marco Bertan, Dachamir Hotza and Antonio Pedro Novaes Oliveira

D575 - Obtaining of porous ceramic for previous processing of agglomeration

José Luiz Minatti, Ana Lúcia Amaral Escada, Ana Paula Rosifini Alves Claro and Elson de Campos

D576 - Dielectric behavior of Er cation modified BaTiO₃ ceramic system

Yurimiler Leyet Ruiz, Armando Pérez and Fidel Guerrero Zayas

D578 - Verification of high energy ball milling efficiency in doping ZrB₂ incorporation in a superconducting phase MgB₂

Felipe Antunes Santos, Alfeu Saraiva Ramos, Claudiene dos Santos and Durval Rodrigues Júnior

D579 - Anelastic characterization of MgB₂ by mechanical spectroscopy

Marcos Ribeiro da Silva, Carlos Roberto Grandini, Dayse Iara dos Santos, Olga V Shcherbakova and S X Dou

D580 - Obtaining of Al₆₂Cu_{25,5}Fe_{12,5} icosahedral quasicrystal by mechanically alloyed method

Silvana Garcia Viana, Bruno Alessandro Guedes Lima, Marias das Dores Bandeira Barroso, Tadeu Antônio Azevedo Melo, Severino Jackson Guedes Lima and Rodinei Gomes Medeiros

D583 - Study of the viability of the use of colorful clays in artistic and decorative ceramics

Tércio Graciano Machado, Uílame Umbelino Gomes, Narayanna Marques Ferreira, Fábio Teixeira da Silva and Caubi Ferreira Souza Júnior

D584 - Evaluation of diatomite in mechanical properties of a commercial central composite resin

Andrea Medeiros aladim de Araújo, Isabela Pinheiro Cavalcanti Lima, Dulce Maria de Araújo Melo and Eduardo José Guerra Seabra

D585 - Incorporation of silver nanoparticles in glasses in the system WO₃-NaPO₃

Iolanda Santana Klein, Silvia Helena Santagnelli, Sidney José Lima Ribeiro, Younes Messaddeq and Hellmut Eckert

D586 - Magnetocaloric powder composite from alloys of the series Gd_{1-x}Pr_xNi₂ to be used in an Ericsson-cycle magnetic refrigerator

Alexandre Magnus Gomes Carvalho, Ana Teresa Mendes, Adelino Aguiar Coelho and Flávio César Guimarães Gandra

D587 - The use of porous ZrO₂-TiO₂ ceramic with Nb₂O₅ dopant as soil moisture sensor

Rodrigo de Matos Oliveira, Maria do Carmo Andrade Nono, Sergio Luiz Mineiro and Geraldo Pinto Britto Filho

D589 - Development of gas sensors based on MFe₂O₄ (M = Mn, Ni and Zn) ferrites

Suzana Nóbrega de Medeiros, Raul Rodrigues Mello, Pablo Roberto Rovani, Ivair Aparecido Santos and Andrea Paesano Junior

D590 - Structural and magnetic studies on barium monoferrite prepared by high energy ball milling

Suzana Nóbrega de Medeiros, Carla Fabiana Cerqueira Machado and Andrea Paesano Junior

D591 - Formulation and characterization of mortar expansive using non-metallic ores of the Northeast region of Brazil

Danielly Vieira de Lucena, Daniel Baracuy Campos, Hélio de Lucena Lira and Gelmires Araújo Neves

D592 - TaC amount and its dispersion effects on sintering of 316L MMC

Leiliane Alves Oliveira, Uílame Umbelino Gomes, Marciano Furukava and Carlson Pereira Souza

D593 - Preparation and characterization of porous alumina-zirconia

Ana Claudia Oliveira Hirschmann, Maria do Carmo Andrade Nono, Roger Rielh and Cosme Roberto Moreira da Silva

D596 - Development and characterization of ceramic alumina tubes for application in residuary waters industrial textile

Késia Karina de Oliveira Souto, Carlos Alberto Paskocimas, José Flávio Timóteo Júnior, João José Melo dos Santos and Luiz Pereira de Brito

D601 - Brasilian "Tagua" red clay reinforced with sanitary ware wastes to produce structural ceramics

Shirley Cosin, Jorge E Di Rito, Guillermo Ruperto Martín-Cortés and Francisco Rolando Valenzuela-díaz

D602 - Manufacture of composite of aluminum matrix strengthened with steel SAE 1040

Tércio Graciano Machado, Uílame Umbelino Gomes, Renata Carla Tavares dos Santos Felipe, Flávia Roberta dos Santos Masieiro, Camilla de Medeiros Dantas and Narayanna Marques Ferreira

D603 - Microwave attenuation properties of Cu substituted NiZn

Valdirene Aparecida Silva, Ulissandra Ribeiro Lima, José Jesus Pereira, Marinalva Cerqueira Nasar, Ricardo Silveira Nasar, Evandro Luís Nohara and Mirabel Cerqueira Rezende

D605 - Structural and morphological characterization of La_{2/3-x}Li_{3x}TiO₃ powders

Alejandra Hortencia Miranda González, Silvia Letícia Fernandes, Alexandre Zirpoli Simões, Mário Sérgio Galhiane, José Arana Varela and Elson Longo

D606 - Thermoluminescence kinetic parameters of CdWO₄ Scintillator

Suellen Maria Valeriano Novais, Ronaldo Santos da Silva and Zélia Soares Macedo

D607 - Synthesis and phosphorescent properties of pure and doped CdSiO₃

Carolina Melo de Abreu, Fabiano Teles Costa Araujo, Ronaldo Santos da Silva, Mário Ernesto Giroldo Valerio and Zélia Soares Macedo

D608 - Addition of diatomite in the production of cement slurries

Priscila Siqueira de Gouveia, Antônio Eduardo Martinelli, Dulce Maria de Araujo Melo, Marcus Antônio de Freitas Melo, Irantécio de Freitas Mendonça and Kellyanne Alves Moura

D609 - 86. Differential scanning calorimetry as a tool for monitoring mechanical alloying processing: application to the synthesis of a (La,Ce,Nd,Pr)(Ni,Cu)5 intermetallic

Pablo Lacourt, Marcelo Ricardo Esquivel and Gabriel Omar Meyer

D610 - Sintering of nanosized 3Y-TZP: the effect of Nb₂O₅ addition in the phase composition and the microstructure

José Vitor Cândido Souza, Maria do Carmo Andrade Nono and Sérgio Luis Mineiro

D611 - Characterization of the governing stages during the low energy mechanical alloying of a mixture of intermetallics

Matías Rodríguez, Marcelo Ricardo Esquivel and Gabriel Omar Meyer

D615 - Kinetics restrictions on the formation of complex Mg-Co hydrides: a high-pressure differential scanning calorimetric study

Maria Gisela Verón, Gabriel Omar Meyer and Fabiana Cristina Gennari

D616 - Magnetic property of the Fe_{0.85}Ni_{0.15}TiO₃

Dárcio Hersch Souza Sá, Tiago Cordeiro de Oliveira, Jose Gerivaldo Duque and Nelson Orlando Moreno

D618 - A new route to recycling spent batteries

Celso Antonio Silveira, Manoel Ribeiro da Silva, Milady Apolinário Silva, Demétrio Werner Soares and Rossano Gimenes

D619 - Structural characterization of nanostructured ZrO₂-CeO₂ solid solutions

Rodolfo Oscar Fuentes, Leandro Marcelo Acuña, Diego Germán Lamas, Maria Genoveva Zimicz, Susana Adelina Larrondo, Aldo Félix Craievich and Marcia Fantini

D620 - Textural, structural and rheological studies of hydratable alumina binder

Nelcy Della Santina Mohallem, Viviane Faria Soares and Gulherme Frederico Lens

D621 - Saline water treatment using aluminium oxide (Al₂O₃) membrane covered with epoxic resin

Sheila Bernhard Galvão, José Flávio Timóteo Jr, Késia Karina de Oliveira Souto, Tércio Graciliano Machado and Crálos Alberto Paskocimas

D622 - The Influence of cobalt population on the structural properties of CoxFe(3-x)O₄

Fabio Nakagomi, Sebastião William da Silva, Adolfo Franco Júnior, Vijayendra Kumar Garg, Aderbal Carlos de Oliveira, Emília Celma Oliveira Lima and Paulo César de Moraes

D623 - Use of micro structured ceramic membranes for emulsification

Fabian Krause and Udo Fritsching

D624 - EMR as a technique applied for determination of firing temperature

Luiz Carlos Oliveira, Angela Kinoshita and Oswaldo Baffa Filho

D625 - Sintering studies of ultra-fine tetragonal yttria-stabilized

Marcelo José Bondioli, Claudinei dos Santos and Kurt Strecker

D626 - Polycrystalline PbI₂ Thin Films Produced by Solution Evaporation

José Fernando Condeles and Marcelo Mulato

D627 - Analysis of the use of scheelite residue in the production of ceramic composites

Isac Santos Pereira, Tércio Graciano Machado, Uílame Umbelino Gomes, Carlos Alberto Paskocimas, Narayanna Marques Ferreira and Gilson Garcia da Silva

D628 – Recycling of 6XXX series aluminium alloy chips processed with SAE 1020 steel chips using powder metallurgy

Isac Santos Pereira, Samara Melo Valcacer, Tércio Graciano Machado, Uílame Umbelino Gomes, Alcione Olinto Galvão, Franciné Alves da Costa and Jorge Magner Lourenço

**SYMPORIUM E
CIAM SCIENTIFIC MEETING****MONDAY, SEPTEMBER 29 - POSTER HALL****16:30 - 18:30****E505 - Arabinoxylan-insulin hydrogels: structural, rheological and controlled release properties**

Elizabeth Carvajal Millan, Claudia Berlanga Reyes, Ana Luisa Martínez López, Agustín Rascón Chu, Jorge Márquez Escalante and Nora Ponce de León Renova

E508 - Microstructural and thermal conductivity investigation of zirconia co-doped with yttria and niobia EB-PVD TBCs

Daniel Soares Almeida, Cosme Roberto Moreira da Silva, Maria do Carmo Andrade Nono and Carlos Alberto Alves Cairo

E510 - Heavy fermion systems under hydrostatic pressure

Graeme M Luke, Adam Aczel, Greg MacDougall, Travis Williams, Yasutomo Uemura, Weiqiang Yu and Tatsuo Goko

E515 – Development of coatings for gas turbines by electron beam physical vapor deposition

Vinicius Rodrigues Henriques, Carlos Alves Cairo, Daniel Soares Almeida, Eduardo Tavares Galvani and Danieli Reis

E517 - Studies of precipitation processes in dilute Cu-Co alloys synthesized by a chemical method

Renato de Castro Valente, Ana Luiza de Andrade Rocha and Guillermo Solórzano Naranjo

E518 – Synthesis and processing of Cu-CNT nonocomposites

Martin Emilio Mendoza, Guillermo Solórzano Naranjo and Eduardo de Albuquerque Brocchi

E526 - Research on the quenching and partitioning process – assessment of a successful international collaboration

David K Matlock and John G Speer

E529 - Diffractometric, hyperfine and magnetic studies on iron containing pyrochlores

Andrea Paesano Jr., Célia Kimie Matsuda, João Batista Marimon da Cunha, Raúl Ernesto Carbonio and Daniel Serafini

E530 - Nanoscopic metal clusters as molecular building blocks of hybrid inorganic-organic materials

Abdou Lachgar, Sergio Aaron Gamboa and Miguel Á Muñoz

E533 - Characterization of Cu bearing oxides, alloy and composites

Francisco José Moura, Eduardo de Albuquerque Brocchi and Ivan Guillermo Solórzano

E536 - Isomerization cis-trans and Aggregates in Poly(azo)urethane Thin Films

Priscila Aléssio, Carlos José Leopoldo Constantino, Aldo Eloizo Job and Eduardo René Pérez González

E538 - Thermochemical interaction of high temperature coating materials with molten silicate deposits

Elisa Marie Vogel, Stephan Kraemer, Rafael Miguel Rique Leckie and Carlos Gerardo Levi

E539 – Single-beam laser-induced microstructuring on metallic films and plates

Santiago Camacho-Lopez, Rodger Evans, Luis Escobar-Alarcon, Miguel Angel Camacho-Lopez and Marco Antonio Camacho-Lopez

E541 - Dependence of the coercive field in Cu90Co10 alloys

David Fernando Reyes, Alexander Cortes, Marta López, María Elena Gómez, Wilson Lopera and Pedro Prieto

E542 - Study of magnetic properties in ferromagnetic/antiferromagnetic bilayers based on the Ca-doped Lanthanum manganite system

Lorena Marín, María Elena Gomez and David Fernando Reyes

E548 - Synthesis of Sn- and Zn- loaded MCM-41 catalysts and their activity in nopol synthesis

Edwin Alexis Alarcón, Renata Vélez, Raquel Mejía, Luis Fernando Correa and Aida Luz Villa

E550 - Development and characterization of ceramics of zirconia-yttria-niobia for aerospace application

Danieli Aparecida Pereira Reis, Daniel Soares Almeida, Vinícius André Henriques, Francisco Piorino Neto, Miguel Justino Ribeiro Barboza and Carlos Moura Neto

E551 - Change of shape of Pt nanoparticles in porous SBA. A TEM, SAXS and EXAFS study

José Martín Ramallo-López, Lisandro José Giovanetti, Santiago José Figueroa, Félix Gregorio Requejo, Aldo Félix Craievich, Matthias Koebel and Miquel Sailemeron

E552 - Monitoring electron spin dynamics with continuous wave lasers

Patrick Richard Irvin, Yanjun Ma, Thiago Alegre, Gilberto Medeiros-Ribeiro and Jeremy Levy

E554 - Spin dynamics in novel heterostructures with spin orbit interaction

J Carlos Egues

E558 - Effect of friction stir spot welding (FSSW) parameters on tensile mechanical properties of aluminum 2024-T3 alloy lap joint

Artur Mariano de Sousa Malafaia, Gustavo Monteiro Dias, Marcelo Tadeu Milan, Marcelo Falcão Oliveira and Dirceu Spinelli

E559 - Synthesis of magnetic metastable Cu95Co5 and Cu90Co5Ni5 materials obtained by mechanical alloying and the influence of milling time on the electric and magnetic properties

Lopez Jennis Marta, Ortiz Ojeda Valentina, Gomez M Elena, Reyes David, Ramam Koduri, Prieto Pedro and Jimenez R José

E560 - Synthesis, morphology study, and chemical characterization of bimetallic nanoparticles

Miguel Gracia-Pinilla, Sergio Mejia-Rosales, Eduardo Perez-Tijerina and Miguel Jose-Yacaman

E564 - Prevention of pathological problems in concrete structures (PREVENIR Network). Organization, goals and initial advances

Pedro Castro-Borges and delegates PREVENIR Network

TUESDAY, SEPTEMBER 30 - POSTER HALL
16:30 - 18:30
E501 - A Particle size comparison in the unique reverse micelle synthesis of yttria-dstabilized zirconia nanoparticles

Olivia A Graeve, Brandon C Williams and Andrew Clifton

E502 - Electronic Relaxation and Coherent Control in Functionalized Semiconductors

Victor S Batista, Robert Snoeberger III and Luis G Rego

E503 - Metal-assisted synthesis of III-V nanowires: Mechanisms involved during growth by gas source molecular beam epitaxy

Ray R LaPierre and Martin C Plante

E504 - The Chicago-Chile Materials Collaboration: dynamic structures from grains, sheets and fluids

Thomas Witten

E519 - Development of carbon Nnanotube Materials: Collaboration between rice university and IPICyT

Pulickel M Ajayan and Robert Vajtai

E521 - Classical and Quantum Fresnel Relations for Left Handed Materials

Jagdish Luthra

E523 - Chemical based synthesis and tem characterization of nanoscale oxides particles

Guillermo Solórzano Naranjo, Daniela Macedo, Eduardo Borcchi and John VandeSande

E524 - Preparation and characterization of nanostructured NiO and metallic nickel

Orfelinda Avalo Cortez, Francisco José Moura, Eduardo De Albuquerque Brocchi and Ivan Guillermo Solorzano Naranjo

E527 - Unscreened coulomb and intrinsic spin-orbit interactions in graphene ribbons

Mehdi Zarea, Carlos Busser and Nancy Sandler

E528 - Conductance signatures of Kondo effect in structured environments

Luis G Dias da Silva, Edson Vernek, Nancy Sandler, Kevin Ingersent and Sergio E Ulloa

E531 - A Novel approach to study highly correlated nanostructures: Transport properties

Enrique Victoriano Anda, Guillermo Chiappe, Carlos Busser, Maria Augusta Davidovich, George Martins, Fabian Heidrich-Meissner and Elbio Dagotto

E532 - Selective reduction of NOx with hydrocarbons on In and Co- zeolite coated monoliths

Eduardo Ernesto Miró, Juan Manuel Zamora, Alicia Viviana Boix, Martínez hernández Angel and Fuentes Gustavo

E535 - Symmetries, dephasing and Kondo physics in a three-quantum dot system

Edson Vernek, Carlos Alberto Busser, Nancy Sandler, Enrique V Anda and Sergio E Ulloa

E537 - Exploiting distinct molecular architectures of ultrathin films made with different fabrication methods

Diogo Volpati, Priscila Alessio, Antonio A Zanfoli, Felipe Chagas Storti, Aldo Eloizo Job and Carlos José Leopoldo Constantino

E544 - Synthesis of Bi-based multiferroic perovskites by mechanical activation techniques

Daniel Osvaldo Serafini, Patricio Lara, Loreto Troncoso, Loreto Barcos and Ricardo Avila

E546 - Low temperature crystallization of an iron phosphate glass by impedance spectroscopy

Luciana Ghussn, Ana Candida Martins Rodrigues, Edgar Dutra Zanotto, Melodie Linda Schmitt, Richard K Brow, Joachim Deubener and Thomas Peter

E549 - Kinetic study of the factors affecting the compositional gradient along copolymer chains

Lin Wang and Linda J Broadbelt

E556 – SnO₂ varistors prepared through different synthesis routes

Miguel Angel Ramirez, Rodrigo Parra, Adolfo Mosquera, Jorge Enrique Rodriguez, Miriam Susana Castro and José Arana Varela

E562 - Heterodoped nanotubes: theory, synthesis, and characterization of phosphorus-nitrogen doped multiwalled carbon nanotubes

Mauricio Terrones

E563 - Molecular beam epitaxy of YMnO₃ on c-plane GaN

Cameron B Keenan, David Lederman, Thomas H Myers, Sandeep Chandril, Esteban Ramos-Moore and A C Cabrera

E566 - Synthesis, characterization and photocatalytic activity of nanocomposites

Odilón Vázquez-Cuchillo, A Cruz-Lopez, J F Sánchez-Ramirez and R Torres-Martinez

SYMPOSIUM F**Electrochemistry of nanostructured and biological materials**

MONDAY, SEPTEMBER 29 - POSTER HALL

16:30 - 18:30

F502 - Effect of silver addition on the electrochemical behavior of the Cu-6%Al alloy

Marisa Veiga Capela, Thaís Mary Carvalho, Heloisa Andrea Acciari, Jorge Manuel Capela and Antonio Tallarico Adorno

F503 - Characterization of template-based electrodeposition nickel nanowires

Juliana Lopes Cardoso, Giuliano Gozzi and Sebastião Gomes dos Santos Filho

F505 - Gold nanocomposite biosensor: construction, characterization and application in electrochemical genosensing of hepatitis C virus

Paulo Roberto Brasil de Oliveira Marques, Hideko Yamanaka, Salvador Alegret and Maria Isabel Pividori

F506 - Positive tubular electrodes of lead acid batteries assembled with nanostructured active material

Juliano Andrade, Andrea Ryba and Patrício Rodolfo Impinnisi

F507 - Determination of mefenamic acid using carbon nanotubes paste electrode

Lucia Helena Mascaro and Luciana Zidoi

F508 - Nanostructured thin films containing antimicrobial peptides/nickel phthalocyanines and its application in Nanomedicine

Inês Maria Souza Araújo, Maysa Franco Zampa, José Roberto S Almeida Leite, Vladimir Costa Silva, José Ribeiro dos Santos Júnior, Valtencir Zucolotto and Carla Eiras

F509 - Nanocomposites incorporating cashew gum/metallic phthalocyanines for dopamine detection

Inês Maria Sousa Araújo, Josélia Borges Moura, Maysa Franco Zampa, Ana Cristina Facundo de Brito, José Ribeiro dos Santos Júnior, Valtencir Zucolotto and Carla Eiras

F510 - Using electrochemical approach to evidence close-packing arrangements in urease-lipid Langmuir-Blodgett films

Luciano Caseli, Frank Nelson Crespi, Valtencir Zucolotto and Osvaldo Novais de Oliveira Júnior

F511 - Enzyme immobilization on polyaniline/silver nanocomposite electrodes

Rodrigo Michelin Iost, Frank Nelson Crespi, Osvaldo Novais de Oliveira Júnior and Valtencir Zucolotto

F513 - Modified electrodes with self-assembled monolayer on gold: an approach of electron transfer

Juliana Carlos Cancino and Sergio Antonio Spinola

F514 - Optimization of biosensors based on urease immobilized in a polypyrrole matrix for detection of urea

Juliana Coatrini Soares and Débora Gonçalves

F515 - Fill factor and efficiency characteristics of dye sensitized nanocrystalline TiO₂ photoelectrochemical cell

Agnaldo José dos Santos

F516 - Layer-by-Layer Supramolecular Assembly of Nickelphthalocyanines: Evidence of Constitutional Dynamic Chemistry (CDC) in the Presence of Gold Nanoparticles

Welter Cantanhêde Silva, Marccus Victor Almeida Martins, Wagner Soares Alencar, Frank Nelson Crespilho, Valtencir Zucolotto and Osvaldo Novais de Oliveira Júnior

F517 - Electrochemical and biocatalytic aspects of layer-by-layer films containing cobalt tetrasulfonated phthalocyanine

Welter Cantanhêde Silva, Roberto Alves Luz, Amanda Costa Santos, Daniel Martins Brito, Luana Gabrielle Ferreira, José Ribeiro Santos Jr and Frank Nelson Crespilho

F518 - Preparation of PtSn/C electrocatalysts using citric acid as reducing agent for Direct Ethanol Fuel Cell (DEFC)

Roberto Willyan Ramon, Luciana Aparecida Farias, Martha Lucía Mora Bejarano, Estevam Victório Spinacé, Marcelo Linardi and Almir Oliveira Neto

F519 - Preparation of PtSn/C, PtRh/C and PtSnRh/C electrocatalysts using an alcohol-reduction process for ethanol oxidation

Ricardo Rodrigues Dias, Roberto Willyan Ramon, Estevam Victório Spinacé, Marcelo Linardi and Almir Oliveira Neto

F521 - Electrocatalysis of the oxygen reduction and hydrogen oxidation reactions on WNC-based catalysts

Amanda Cristina Garcia, Kênia Freitas and Edson Antonio Ticianelli

F523 - Photoluminescence from embedded Au nanocrystals greatly enhanced by chemical and local-field effects

Lauro Tatsuo Kubota, Alexandre Kisner and Marina R Aguiar

F524 - Electrodeposition efficiency, morphology, and crystalline structure of cobalt recycled from cathodes of spent Li-ion batteries

Vinicius Guilherme Celante, Eric Marsalha Garcia and Marcos Benedito de Freitas

F525 - Electrodeposition mechanism for cobalt recycled from spent Li-ion battery cathodes by the electrochemistry quartz crystal microbalance technique

Vinicius Guilherme Celante, Eric Marsalha Garcia, Marcos Benedito de Freitas, Ernesto Chaves Pereira and Janaina Soares Santos

F527 - Immobilization of FeF₂O₄ magnetic-redox nanostructures

Valéria Spolon Marangoni, Monise Casanova, Valtencir Zucolotto and Frank Nelson Crespilho

F528 - Building an electrochemical cell at the nanoscale level

Alexandre José de Castro Lanfredi, Adenilson José Chiquito, Valtencir Zucolotto, Edson Roberto Leite and Frank Nelson Crespilho

F529 - Porous Pd Layers on Si Substrates

José Geraldo Alves Brito Neto, Taku Matsuzaka and Masanori Hayase

F530 - Electrocatalytic activity of DDQ immobilized on multi-wall carbon-nanotubes for NADH oxidation

Denise de Oliveira Gaspareto, Phabyanno Rodrigues Lima, Adriano Bof de Oliveira and Lauro Tatsuo Kubota

F531 - CNTs modified with polyethylenimine and gold nanoparticle with DTNB-SAM to NADH electrooxidation

Murilo Santhiago, Phabyanno Rodrigues Lima and Lauro Tatsuo Kubota

F532 - Structural analyses of PVDF/Fe2O3 composites

Celso Xavier Cardoso, Daniel Felipe Simião, Priscila Aléssio, Marcos Lima Nobre and Jose Leopoldo Constantino

F534 - Schiff base-Cu(II) complexes: an ab initio study

Marcos Brown Gonçalves, Ana Maria da Costa Ferreira and Helena Maria Petrilli

F535 - Structural study and electronic properties of DNA modified

Marcos Brown Gonçalves, Rosa di Felice and Helena Maria Petrilli

F537 - Tuning properties of the Ag/polyaniline composites by different techniques of film formation

Dyovani Coelho, Frank Nelson Crespilho, Christiana Andrade Pessoa, Jarem Raul Garcia and Karen Wohnrath

F540 - Preparation and characterization photoelectrochemistry of nanotubes of Ti/TiO₂

Maria Valnice Boldrin Zanoni and Juliano Carvalho Cardoso

F541 - Evaluation of self-assembled electrodes from Pt-SnO₂/polyallylamine for ethanol electrooxidation

Caroline Bitencourt Barretto, Renato Luis Tâme Parreira, Rogéria Rocha Gonçalves, Dayse Caldas de Azevedo and Fritz Huguenin

F542 - The Nature of the Interactions between Pt4 Cluster and the Adsorbates H, OH, and H₂O

Renato Luis Tâme Parreira, Giovanni Finoto Caramori and Fritz Huguenin

F543 - Electrodeposition of cobalt and iron alloy on hydrogen terminated Si(111)*Itamar Tomio Neckel and Ney Pereira Mattoso***F544 - Cathodes x-ray characterization for new and discarded cobalt oxide lithium-ion batteries***Jair Scarminio, Ricardo Floriano, Alexandre Urbano, Lisandro Pavie Cardoso and Adenilson Oliveira dos Santos***F547 - Characterization of VO_x thin films prepared by potentiostatic electrodeposition***Alex Boiarski Cezar, Ney Mattoso, Wido Herwig Schreiner and João Jorge Klein***F548 - Dependence of RuO₂ capacitive properties on the preparation conditions***Leandro Aparecido Pocrifka, Adriane Viana Rosario and Ernesto Chaves Pereira***F549 - Effects of Zn presence in the Se deposition process***Valéria Cristina Fernandes and Lucia Helena Mascaro***TUESDAY, SEPTEMBER 30 - POSTER HALL****16:30 - 18:30****F501 - Electroactivity of intermetallic PtSn as anode for PEMFC and DMFC***Marcelo Rodrigues da Silva and Antonio Carlos Dias Ângelo***F551 - Layer-by-layer self-assembled films of BSA and poly(allylamine hydrochloride)***Ernando Silva Ferreira and Amando Siuiti Ito***F552 - Biosensor construction based on peroxidase extracted from pine kernel (*Araucaria angustifolia*) and immobilized on pegylated polyurethane nanoparticles***Inês Rosane Zwirles de Oliveira, Maurícia Beddin Fritzen-Garcia, Betina Giehl Zanetti-Ramos, Orlando Fatibello--Filho, André Avelino Pasa and Tânia Beatriz Creczynski-Pasa***F553 - Metallic nanostructures of Pt/Pt(x)Bi(y)/Pt for the electrooxidation of CO and methanol molecule***Renato Garcia Freitas, Ettore Paredes Antunes and Ernesto Chaves Pereira***F554 - Comparison of methanol electrooxidation on Pt/Ir/Pt and Pt/Bi/Pt multilayer nanostructured electrodes***Ettore Paredes Antunes, Renato Garcia Freitas and Ernesto Chaves Pereira***F555 - Ti/Polyaniline-MnO₂ composite electrodes as electrochemical capacitors***Fernando Henrique Cristovam, Ermerson Costa Rios, Leandro Aparecido Pocrifka, Alessandra Alves Correa and Adriane Viana Rosario***F556 - The influence of a complexing additive on the formation of anodic Al₂O₃-films***Gerhard Hans Knörnschild, Svetlana Viacheslavovna Golovataya, Olga Ivanovna Zubarevich, Elena Valerienovna Muravitskaya and Alexander Anatolevich Poznyak***F559 - Characterization of SAM modified Au nano-structures supported on glassy carbon surface by AA and DA voltammetric responses***Sonia Tomie Tanimoto and Sérgio Antonio Spinola Machado***F560 - Studies of ethanol oxidation reaction using PtSn/C electrocatalysts***Luanna Silveira Parreira, Rodrigo Fernando De Souza, Marcelo Luiz Calegaro and Mauro Coelho Dos Santos***F562 - Small organic molecules electrooxidation using PtCeO₂/C electrodes***Adriane Elise de Assunção Flausino, Rodrigo Fernando De Souza, Robson Tadeu Soares de Oliveira Junior, Marcelo Luiz Calegaro and Mauro Coelho Dos Santos***F563 - Electrochemical behavior of Pt-PbO_x/C anodes in the presence of formic acid***Hugo Barbosa Suffredini, Guilherme Soares Buzzo and Rafael Vitor Niquirilo***F564 - Characterization electrochemistry of films self-assembly containing polyol and phtalocyanine tetrasulfonated of iron***Bruno Quirino Araújo, Márcia Valéria Silva Lima, Inês Maria Siqueira Araújo, Thiago Duarte Chaves, Maysa Franco Zampa, José Ribeiro dos Santos Júnior and Carla Eiras***F565 - Nanoparticle doping of nafion membrane as an alternative for improve the performance of DEFC***Liliane Cristina Battirola, José Fabián Schneider, Germano Tremiliosi Filho and Ubirajara Pereira Rodrigues Filho***F566 - Electrochemical synthesis of a soluble brome substituted poly(p-phenylene vinylene)***Fábio Santana dos Santos, Debora Corso, Karine C C W dos S Klider, Laura O P Philadelphi, Jacqueline Aparecida Marques and Jarem Raul Garcia***F568 - Methanol oxidation using Pt/C electrocatalysts prepared by pechini and sol-gel methods: A comparative study***Hugo Barbosa Suffredini, Marcelo Luiz Calegaro, Guilherme Soares Buzzo, Rodrigo Fernando Brambilla de Souza, Daniel Campana Racio and Mauro Coelho dos Santos*

F569 - Immobilization of enzymes on carboxylated carbon cloth for mediatorless biocathodes applications in biofuel cell

Sergio Akinobu Yoshioka, Antonio S A, Cyntia Tomasso, Flavio Colmati Junior, Ernesto Rafael Gonzalez and Vito Lyrio Valle

F570 - Voltammetric study of the composite electrode elaborated with PVDF, graphite powder and hausmannite-type manganese oxide

Murilo Teodoro Martinez, Alex da Silva Lima, Celso Xavier Cardoso and Marcos Fernando de Souza Teixeira

F571 - Use of Ti/PtRu electrodes obtained in different conditions for methanol electrooxidation

João Paulo Bianchi Ladeia, Luanna Silveira Parreira, Rodrigo Fernando Brambilla De Souza, Marcelo Luiz Calegaro and Mauro Coelho Dos Santos

F572 - Structural and morphological effects on photocatalytic degradation of azo-dye using TiO₂ porous thin films

Mariana Souza Sikora, Adriane Viana Rosario and Ernesto Chaves Pereira

F573 - Surface charge of functionalized magnetic nanocolloids

Marcelo de Ataíde Ferreira, Epitácio Pinto Marinho, Francisco Augusto Tourinho, Alex Fabiano Cortez Campos and Jérôme Depeyrot

F574 - Influence of magnetic forces on electrochemical mass transport

Alexandre Tadeu Gomes de Carvalho, Thiago Henrique Rodrigues da Cunha and Regina Simplicio Carvalho

F575 - EIS as an electrochemical technique for evaluation of biodiesel corrosiveness

Isabella Pacifico Aquino and Idalina Vieira Aoki

F576 - Morphological characterization of nanostructured cobalt thin films

Lincoln Silva Gomes, Luiz Carlos Lima, Renata Simão, Suzana Bottega Peripolli and Carlos Alberto Achete

F577 - Surfaces analyses of NCD films as a function of sp₂/sp₃ carbon and oxygen content

Adriana Faria Azevedo, Jorge Tadao Matsushima, Sandra Cristina Ramos, Maurício Ribeiro Baldan and Neidenei Gomes Ferreira

F578 - Electrochemically induced roughness in Metallic Thin Films Analyzed by SPR, UV-Vis, SERS e AFM

André Oliveira Silva, Ísis Vasconcelos Brito and Frederico Guilherme de Carvalho Cunha

F579 - Electrochemical characterization of nanodiamond/carbon fibers as electrodes in electrochemical double-layer capacitors

Erica Cristina Almeida, Leonardo Iusuti Medeiros, Mauricio Ribeiro Baldan, José Maurício Rosolen and Neidenei Gomes Ferreira

F581 - CNT/graphite and CNT/bagasse cane Composites

Jose Mauricio Rosolen and Elaine Yoshiko Matsubara

F582 - Alkaline pile based on Carbon Nanotube/felt

Jose Mauricio Rosolen, Elaine Yoshiko Matsubara and Marcelo Silva Marchesin

F583 - Alumina nanotubes: mechanism of formation by anodization processes and etching dissolution

Adriano Friedrich Feil, Marlla Vallerius da Costa, Pedro Migowski, Jairton Dupont, Livio Amaral and Sergio Ribeiro Teixeira

F584 - Relation between the grain size of Al film and the diameter of the nanopores formed by anodization process

Marlla Vallerius da Costa, Adriano Friedrich Feil, Giovanna Machado, Jairton Dupont, Livio Amaral and Sergio Ribeiro Teixeira

F585 - Influence on the ITO/TiO₂/P3HT/Al organic photovoltaic devices efficiency of TiO₂ films produced from a colloidal dispersion

Adriana Pereira Ibaldo, Carlos Eduardo Zanetti, Rogério Valaski and Roberto Mendonça Faria

F586 - Structural and morphological modification of macroporous silicon layers by front side aluminum metallization

Walter Jaimes Salcedo, Danilo Roque Huanca and Daniel Scodeler Raimundo

F587 - Preparation platinum particles dispersed into 3-N-Propylpyridinic-Silsesquioxane

Vagner dos Santos, Clíciane Guadalupe de Jesus, Sergio Toshio Fujiwara, Valtencir Zucolotto, Jarem Raul Garcia, Christiana Andrade Pessoa and Karen Wohnrath

F588 - Electrochemical synthesis of polyaniline nanostrucutres

Miguel G Xavier, Everaldo Carlos Venancio, Edson Roberto Leite and Mattoso H C Mattoso

F589 - Net boron doped diamond/titanium electrode for electropore for electrode for electrochemical applications

Neila de Almeida Braga, Carlos Alberto Alves Cairo, Maurício Ribeiro Baldan, Claudia Regina Borges Miranda and Neidenei Gomes Ferreira

F591 - Electrochemical study of polyaniline oxidation states by transmission line models

Fábio Ruiz Simões, Leandro Aparecido Pocrifka, Luís Fernando Quintino Pereira Marchesi and Ernesto Chaves Pereira

F592 - Polyaniline and MnO₂ carbon nanotube/felt composites for capacitor application

Marcel Silva Marchesin, Elaine Yoshiko Matsubara and José Maurício Rosolen

F594 - Characterization of an alkanethiol self-assembled monolayer via sum-frequency vibrational spectroscopy

Thiers Massami Uehara, Kleber Bergamaski, Hilton Barbosa Aguiar and Paulo Barbeitas Miranda

F595 - Electrodeposition and characterization of magnetic nanowire alloys on porous alumina

Erildo Dorico, Alexandre Da Cas Viegas, João Batista Graciosa, Lia Silva de Oliveira and André Avelino Pasa

**SYMPOSIUM G
Theoretical and experimental advances in the development of new materials****MONDAY, SEPTEMBER 29 - POSTER HALL****16:30 - 18:30****G501 - The magnetic treatment water is a miracle?**

Ayrton Hugo de Andrade e Santos and Ney Amorim Silva

G503 - Interface roughness in InGaAs/InP heterostructures

Yury Pusep, Gabriel Canale Gozzo and Ray R LaPierre

G504 - Thermal ageing of HMS-PP in grains

Washington Luiz Oliani, Duclerc Fernandes Parra and Ademar Benévolo Lugão

G505 - Dye RAM arrays based on methyl red molecules

Marcos Allan Reis, Carlos Eduardo Cava, Fabiano Thomazi, Lucimara Stolz Roman and Jordan Del Nero

G506 - Vanadium oxide nanorod sensing membrane

Elidia Maria Guerra and Marcelo Mulato

G507 - Extended gate Field effect transistors using vanadium/titanium oxide for pH sensor

Elidia Maria Guerra, Eder José Guidelli and Marcelo Mulato

G508 - DFT study for adsorption of no on P d4 and Pd4/GAMMA-Al₂O₃ clusters

Maurício Macedo Cruz, José Walkimar Carneiro and Carlton Anthony Taft

G509 - Study of Magnetic properties of Fe₂Nd intermetallic compound using AB initio calculation

Momotaro Imaizumi, Laudemir Carlos Varanda, Miguel Jafelicci Júnior, Carlos Alberto Soufen and Carlos Alberto Fonzar

G510 - Planar antenna with metamaterial

Humberto Cesar Chaves Ferandes

G511 - Electrical and optical properties of fullerenols

Roberto Rivelino Moreno, Thaciana Valentina Malaspina and Eudes Eterno Fileti

G512 - Photoluminescence in polyfluorenes: influence of structure and molecular dynamics

Gregório Couto Faria, André Alves Souza, Rafael di Falco Cossiello, Tereza Dib Atvarz, Tito José Bonagamba and Eduardo Ribeiro deAzevêdo

G514 - A molecular dynamics study of the solvation process of the carbon nanostructure. Fullerene and fullerenol

Roberto Rivelino Moreno, Thaciana Valentina Malaspina, Cleiton Domingos Maciel and Eudes Eterno Fileti

G515 - Structural relaxation properties in polymer electrolytes based on PEO and ionic liquids

Luciano Tavares Costa and Mauro Costa Ribeiro

G516 - The effect of cooling rate during hydrothermal synthesis of ZnO nanowires

Raluca Savu, Rodrigo Parra, Ednan Joanni, Maria Aparecida Zaghete, Paulo Roberto Bueno, Elson Longo and José Arana Varela

G517 - Obtaining and characterizing ordered intermetallic nickel phases

Maria Elenice dos Santos, Leandro Moreira de Campos Pinto, Talita Cristiane Maganha, Danilo Stradiotti Comenalli and Antonio Carlos Dias Ângelo

G519 - First principles studies of F centers on magnesium oxide surfaces with defects

Neil De la Cruz Centeno

G520 - Hydrothermal synthesis of SnO₂ colloidal suspensions for the fabrication of nanostructured films

Josiel José da Silva

G521 - Energy landscape for atomic gold adsorption at the CeO₂(111) surface: A DFT+U Study

Norge Cruz Hernández, Ricardo Grau Crespo, Nora H de Leeuw and Javier Fernández Sanz

G522 - Luminescence properties of Eu³⁺ and Mg²⁺ doped LiTaO₃ obtained via the polymeric precursor method

Gisele Gasparotto, Márcio Souza Goes, Sérgio Antonio Marques Lima, Maria Aparecida Zaghete, Marian Rosaly Davolos, Carlos Oliveira Paiva Santos and José Arana Varela

G523 - Chemical Process study to obtain thin films of MgB₂

Claudio Luiz Carvalho, Nathan Newman, Yi Shen and Rakesh Singh

G526 - 4A Zeolite from Modified Kaolin

Carolina Resmini Melo, Alberto Andrade Fernandes and Humberto Gracher Riella

G527 - Poly(4-vinylpyridine)/poly(styrene-co-vinyl phosphonic acid) blends: molecular structure and interactions

Robson Pacheco Pereira, Maria Isabel Felisberti and Ana Maria Rocco

G528 - Proton conductive membranes based on a poly(ethylene oxide)/ poly(acrylonitrile-co-metil acrylate)/ poly(4-vinylphenol-co-2-hydroxyethyl metacrylate) blend

Robson Pacheco Pereira, Erika Famini Silva and Ana Maria Rocco

G529 - Preparation of CeO₂ nanospheres by microwave-hydrothermal method

Márcio Luiz dos Santos, Carla dos Santos Riccardi, Renata Cristina Lima, Ricardo Luis Tranquillin, José Arana Varela and Elson Longo

G530 - Synthesis of CeO₂ by microwave-hydrothermal method

Carla Dos Santos Riccardi, Renata Cristina Lima, Márcio Luiz dos Santos, José Arana Varela and Elson Longo

G531 - Thixocasting of a A356 alloy: fluidity, porosity distribution and thermomechanical fatigue behaviour

Danilo Borges Villarino de Castro, Maurizio Ferrante, Danilo Borges Villarino de Castro, Mauricio Angeloni, Waldek Wladimir Bose Filho, Dirceu Spinelli and Cassius Olívio Figueiredo Terra Ruckert

G532 - Polymer/ceramic composite: A large range radiation detector

Walter Katsumi Sakamoto, Giuliano Pierre Estevam, Aparecido Augusto de Carvalho, Wesley Pontes and Washington Luiz Barros de Melo

G533 - First Principles study of the interaction of small Pd and Pt

Mauricio Tavares de Macedo Cruz, Walkimar Mesquita Carneiro and CARLTON Anthony Taft

G534 - Periodic first-principles calculations of the BaZrO₃ (110) surface

Prescila Glaucia Christianini Buzolin and Julio Ricardo Sambrano

G535 - Synchrotron structural and ionic capacitance analysis of LixCoO₂ prepared at low and high temperature

Naira Canevarolo Pesquero, Paulo Roberto Bueno, Fábio Furlan Ferreira, Elisabete Inacio Santiago, José Arana Varela and Elson Longo

G536 - Development of composite membrane (Pilla-co-PCL/PEG/Ha-βTCP 1:1) for tissue engineering: chemical and biological response

Walter Israel Cabrera, Walker Soares Drumond, Roberto García, Luciana Correa, Marcia Martins, Marco Giosso and Hue Wang

G537 - Influence of Co contents on catalysts supported on SiO₂ and TiO₂ on growing and selectivity of carbon nanotubes by methane chemical vapor deposition

Dácio Moreira de Souza, Fabio Barboza Passos, Hugo Alvarenga Oliveira and Dante Ferreira Franceschini

G538 - Computational modeling of the percolative behavior in a polymer-nanorod composite

Cleber Fabiano Nascimento and Marlus Koehler

G539 - Electrodeposition of Au-Sn alloys from different bath compositions

Juliana Lopes Cardoso and Sebastião Gomes dos Santos Filho

G540 - Magnetic properties of coated Fe₃O₄ nanoparticles

Vagner Bernal Barbeta, Renato de Figueiredo Jardim, Fernando Bacci Effenberger, Liane Marcia Rossi and Pedro Kunihiko Kiyohara

G541 - Comparative measurements of optical Kerr effect in photochromic azo-dye doped biopolymer versus polystyrene

Daniel Luiz da Silva, Marta Ziemienczuk and Andrzej Miniewicz

G542 - Natural antioxidant to stabilize polypropylene

Amanda Melissa da Silva Forrester and Maria de Fátima Vieira Marques

G543 - Investigation of the effect of ultrashort pulse spectral phase modulation on the two-photon absorption processes

Daniel Luiz da Silva, Lino Misoguti and Cleber Renato Mendonça

G544 - Development of PVC/NBR blends by reactive processing

Fábio Roberto Passador, Luiz Antonio Pessan and Antonio Rodolfo Júnior

G545 - Microwave-assisted hydrothermal synthesis of flower-like ZnO powder

Camila Soares Xavier, Sayonara Andrade Eliziário, Mauricio Roberto Bomio Delmonte, José Arana Varela and Elson Longo

G546 - Microwave-assisted hydrothermal synthesis of CaZn₂(OH)₆.2H₂O powder

Camila Soares Xavier, Sayonara Andrade Eliziário, Mauricio Roberto Bomio Delmonte, Elson Longo and José Arana Varela

G547 - Aligned carbon nanotubes grown by spray-pyrolysis using acetonitrile as precursor

Renato Barbosa de Oliveira and Fernando Lázaro Freire Júnior

G549 - Influence of structural disorder on the photoluminescence emission of PZT powders

Alberthmeiry Teixeira de Figueiredo, Margarete S Silva, Valéria Moraes Longo, Nilson Dias Vieira Júnior, Mario Cilense, José Arana Varela and Elson Longo

G550 - Release of theophylline in tablets made with PCL (polycaprolactone) and PEG (polyethylene glycol)

Kiriaki Moudatsos Rodrigues, Duclerc Fernandes Parra and Maria José Oliveira

G551 - Elastic Constants for wurtzite ZnO: First Principles Calculation

Naiara Letícia Marana and Julio Ricardo Sambrano

G553 - Polyol - mediated synthesis of ZnO nanoparticles

Camilla dos Santos Zanatta, Dayse Iara dos Santos and Margarida Juri Saeki

G555 - Theoretical study of the photoluminescence phenomena and the structural order-disorder in CaTiO₃

Rafael Luiz Erlo, Juliana Milanez, Sergio de Lazaro and Elson Longo

G556 - Photoelectron spectroscopic investigation of Mn-containing amorphous silicon and germanium films

Fabio Aparecido Ferri, Antonio Ricardo Zanatta, José Javier Saez Acuña and Fernando Alvarez

G557 - Synthesis, characterization and photophysical properties of Eu³⁺ doped in SrMoO₄

Marcos Takashi Santos Tanaka, Ieda Lúcia Viana Rosa, Ana Paula de Azevedo Marques, Edson Roberto Leite, José Arana Varela and Elson Longo

G558 - Effect of mesoporosity of vanadium oxide evaluated by cyclability during Li⁺ insertion/deinsertion

Dane Tadeu Cestarolli, Elidia Maria Guerra and Herenilton Paulino Oliveira

G559 - Monte Carlo simulation of the phase field crystal model with pinning

Jorge Anderson Paiva Ramos, Enzo Granato, Cristian Achim, See Chen Ying, Ken Elder and Tapio Ala-Nissila

G560 - Nanodiamond growth on silicon substrate through the etching of reticulated vitreous carbon produced at different temperatures

Cláudia Renata Borges Miranda, Maurício Ribeiro Baldan, Antonio Fernando Beloto and Neidenei Gomes Ferreira

G561 - The chemical bond overlap plasmon as a tool for quantifying covalency in optical solid state materials

Renaldo Tenório Júnior, Ricardo Luiz Longo and Oscar Loureiro Malta

G562 - Study of the influence of the crystalline phase and the orientation in ferroelectric polarization of the poly(vinylidene fluoride) films in the β phase

Aline Bruna Da Silva, Rinaldo Gregório Filho and Célio Wisniewski

G563 - Comparative analysis of oil postconsumption dealt with clays of the Paraíba/Brazil for application as biofuel

Elaine Patrícia Araújo, Eddleide Maria Araujo, Marcus Vinicius Lia Fook, Keila Machado de Medeiros, Sara Verusca de Oliveira and Divânia Ferreira da Silva

G564 - BaMoO₄ nanostructures prepared by hydrothermal-microwave method

Monica Scamardi Pinto Ramiro, Ana Paula de Azevedo Marques, Renata Cristina Lima, Ieda Lúcia Viana Rosa, Edson Roberto Leite, José Arana Varela and Elson Longo

G565 - Synthesis of CaMoO₄ Thin Films: a combined theoretical and experimental study

Ana Paula de Azevedo Marques, Valéria Moraes Longo, Dulce Maria de Araujo Melo, Paulo Sérgio Pizani, Edson Roberto Leite, José Arana Varela and Elson Longo

G567 - Defects induced properties of rutile SnO₂

Pablo Damasceno Borges, Luísa M Ribeiro Scolfaro, Horácio W Leite Alves and Eronides F da Silva Junior

G568 - Study of the fluidodynamics of grade metallurgical silicon in reactor fluidized bed for production trichlorosilane

Milena Emerenciano Luz Sabino, Thalita França de Toledo, Ana Cláudia Bernardes Silva and José Roberto Tavares Branco

G569 - Disordered and ordered magnetic domains under pressure and magnetic field of a spin-charge-lattice coupled system

Jose Antonio Souza and Renato de Figueiredo Jardim

G570 - Water effect on the mullite kinetic crystallization and mechanism of crystallization

Taysa Cristina de Oliveira, Luciana De Simone Cividanes, Ademir Francisco dos Santos, Clovis Augusto Ribeiro and Gilmar Patrocínio Thim

G574 - Optoelectronic properties of Cr-doped amorphous AlN films

Leiliane Cristina Cossolino, Cristina Monteiro Ribeiro and Antonio Ricardo Zanatta

G575 - The effect of Eu substituting Bi on the magnetic behavior of the BiFeO₃

Luiz Augusto Sousa de Oliveira, João Paulo Sinnecker and Ivair Aparecido Santos

G577 - Micro-sized decaoctahedron shape of BaZrO₃ powders obtained by microwave-assisted hydrothermal method

Mário Lúcio Moreira, Gabriela Santilli Nascimento, Maria Inês Basso Bernardi, Juan Bort, José Arana Varela and Elson Longo

G578 - In-situ structure monitoring of ordered mesoporous silica template removal

Marcia Abreu Fantini, Francisco Mariano Neto, Luis Carlos Cides Silva and Jivaldo do Rosario Matos

G580 - SrMoO₄ powders processed in microwave-hydrothermal: Synthesis, characterization and optical properties

Júlio César Sczancoski, Laécio Santos Cavalcante, Paulo Sérgio Pizani, José Arana Varela and Elson Longo

G581 - Morphology and photoluminescence at room temperature of BaMoO₄ powders

Ricardo Luis Tranquilin, Julio Cesar Sczancoski, Laécio Santos Cavalcante, Paulo Sérgio Pizani, José Arana Varela and Elson Longo

G582 - Morphology and photoluminescence properties of SrWO₄ powders processed by microwave-hydrothermal

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G583 - Influence of different surfactants in the synthesis of TiO₂ colloidal nanocrystals

Giovanni Pimenta Mambrini, Elson Longo, José Arana Varela and Edson Roberto Leite

G584 - Low cost and highly efficient electrode materials for ethyleneglycol oxidation

Bruna Rodrigues Lopes Gonçalves and Antonio Carlos Dias Angelo

G586 - Advantages by dielectric spectroscopy rather than impedance spectroscopy use on the study of high permittivity materials

Willian Campos Ribeiro, Paulo Roberto Bueno, Elson Longo and José Arana Varela

G587 - Comparative study of different synthesis methods of Bi_{0.5}Sr_{0.5}Mn_{1-x}CrxO₃

Sandra Andréia da Silva, Maria Auxiliadora Silva Oliveira, Renato de Figueiredo Jardim and Marcia Tsuyama Escote

G589 - Magnetic properties of magnesioferrite nanoparticles

Lucia Helena Guimarães Cardoso, Ronaldo Sergio de Biasi, Dalber Ruben Sanchez Candela, José Brant de Campos, Angelo Marcio de Souza Gomes and Joao Batista Marimon da Cunha

G590 - Synthesis of copolymers of 3-azothiophene and 3-thiophene acetic acid and ionochromic behavior of its layer-by-layer (LbL) films with poly(allylamine hydrochloride)

Bruno Bassi Torres, Vanessa Cristina Gonçalves, Marystela Ferreira and Debora Terezia Balogh

G591 - Effect of the side-chain length of poly(3-alkylthiophenes) on the optical VOCs detection

Vanessa Cristina Gonçalves and Debora Terezia Balogh

G592 - Synthesis of TiO₂ nanocrystalline: influence of solvent

José Milton Elias de Matos, Sergio Henrique Leal, Maria Rita de Moraes Chaves Santos, Laécio Santos Cavalcante, Valdemir dos Santos, Elson Longo and José Milton Elias de Matos

G593 - Recycling of multilayer films by glycolysis reaction

Silvia Luciana Fávaro, Alberto Gonçalves Vieira Carvalho-Neto, Vinicius Muller, Edvani Curti Muniz and Eduardo Radovanovic

G594 - Influence of nickel precursor on the synthesis of nanosized

Juliana Sousa Gonçalves, Vicente Sousa Marques, Sérgio Henrique Leal, Maria Rita de Moraes Chaves Santos, Laécio Santos Cavalcante, Elson longo and José Milton Elias de Matos

G596 - Synthesis of carbon nanotubes in liquid media

Luciano Trevisan, Estevan Rodrigo Schifelbein, Rafaella Oliveira Nascimento, Solange Binotto Fagan and Sergio Roberto Mortari

G598 - Ionic interplay mechanism in molecular hexacyanoferrate materials: a revisited analysis

Grazielle de Oliveira Setti, Valéria Cristina Fernandes, Paulo Roberto Bueno, Fábio Furlan Ferreira, Claude Gabrielli, David Gimenez Romero and Francisco Vicente

G599 - Single walled MgF₂ nanotubes: electronic study

Joao BL Martins, Marcio D Ferreira and José D Santos

G601 - Study of p-terphenylene doped with Na

Laura Oliveira Péres, Jean-Yves Mevellec, Michel Evain, Vaclav Petricek and Gérard Froyer

G602 - Photoluminescence properties of Eu³⁺-doped crystalline CaTiO₃ powders obtained by hydrothermal-microwave

Ieda Lúcia Viana Rosa, Ivo Mateus Pinatti, Mario Lúcio Moreira, Francini Cristiani Picon, Gabriela Santilli Nascimento, José Arana Varela and Elson Longo

G603 - Preparation of cellulose whiskers from sisal fibers

Geísa Tavares de Melo, Diego Cerqueira Montes and Fabiano Vargas Pereira

G605 - Tb³⁺ doped-BaMoO₄ powders synthesized by complex polymerization method

Mariana de Abreu Cruz, Denise Proença, Ana Paula de Azevedo Marques, Fabiana Villela da Motta, José Arana Varela, Elson Longo and Ieda Lúcia Viana Rosa

G607 - Bi₄Ti₃O₁₂ powders: Synthesis, characterization and optical properties in phase transition

Ricardo Consorte Oliveira, Ederson Carlos Aguiar, Laécio Santos Cavalcante, Ariano De Giovanni Rodrigues, José Cláudio Galzerani and Elson Longo

G608 - Towards an Inside on the Photo-damage in Hair Fiber by UV-Light: An Experimental and Theoretical Study

Valéria Moraes Longo, Adriano S Pinheiro, Julio Ricardo Sambrano, José A Agnelli, Elson Longo and José Arana Varela

G609 - Langmuir and langmuir-blodgett films of PPV derivatives: OC1OC10-PPV and OC8OC8-PPV

Clarissa Almeida Olivati, Marystela Ferreira and Débora Terezia Balogh

G610 - Mixed langmuir films of an azopolymer and polythiophene or polymethacrylate

Lucineia Ferreira Ceridório, Vanessa Cristina Gonçalves, Débora Terezia Balogh and Osvaldo Novais de Oliveira Júnior

G611 - Preparation of TiO₂-anatase nanoparticles via titanium acetylacetone hydrolysis and solvothermal processing

Francini Cristiani Picon, José Arana Varela and Elson Longo

G613 - MgTiO₃ powders: Synthesis, characterization, morphology and photoluminescence

Elídia Vetter Ferri, José Waldo Martinez Espinosa, Júlio César Sczancoski, Laécio Santos Cavalcante, Paulo Sérgio Pizani, José Arana Varela and Elson Longo

G614 - Preparation of Y₂O₃ using a simple hydrothermal-microwave method: photoluminescent properties

Ana Paula de Moura, Renata Cristina Lima, José Waldo Martinez Espinosa, Ieda Lúcia Viana Rosa, José Arana Varela and Elson Longo

G616 - Analyzes of electro-optics properties of carbon nanotubes deposited using iron as precursor material

Ana Paula Mousinho and Ronaldo Domingues Mansano

G617 - Surface morphology and control of optical band gap in blue-green-orange-red photoluminescence of Ba[Zr_{0.25}Ti_{0.75}]O₃ thin films

Graziela Pereira Casali, Laécio Santos Cavalcante, Julio C Sczancoski, Fabio S De Vicente, Máximo Siu Li, José Arana Varela and Elson Longo

G618 - Isosorbide derived polyesters produced by enzyme catalysis: azeotropic distillation of products as driving force

Danielle Juais and Luiz Henrique Catalani

G619 - Effects of natural rubber in thermoplastic potato starch

Barbara Regina Bouças Pontes, Eliangela Moraes Teixeira and Antonio Aprigio da Silva Curvelo

G620 - Non-isothermal analysis of the crystallization kinetics of 20Li(2)O-80TeO(2) glass

Elio Idalgo and Eudes Borges Araújo

G621 - A potential indicator-dosimeter material for blue-light phototherapy

Cláudia Karina Barbosa de Vasconcelos and Rodrigo Fernando Bianchi

G622 - Pressure-induced electrical and structural anomalies in Pb_{1-x}CaxTiO₃ thin films grown at various oxygen pressures by chemical solution route

Debora Silva Pontes, Fenelon Martinho Pontes, Mario Sergio Galhiane, Lucidio Souza Santos, Elson Longo, Paulo Sérgio Pizani and Marcia T Escote

G624 - Hydrothermal-microwave synthesis of NiO nanoplates

Ana Paula de Moura, Renata Cristina Lima, Elaine Cristina Paris, José Arana Varela and Elson Longo

G625 - Improvement of electrical properties of Sr-modified (Pb,Ca)TiO₃ thin films grown by soft chemistry route

Debora Silva Pontes, Elson Longo, Fenelon Martinho Pontes, Mario Sergio Galhiane, Lucidio Souza Santos, Sandra Regina Rizzato and Edson Roberto Leite

G626 - TiO₂ nanostructured films for dye-sensitized solar cells

Elaine Cristina Muniz, Márcio de Sousa Góes, Rodrigo Parra, Elson Longo, José Arana Varela, Ednan Joanni and Paulo Roberto Bueno

G627 - Polymeric precursor method to the synthesis of XWO₄ (X=Ca and Sr) thin films – Structural, microstructural and spectroscopic investigations

Lucas Petit Aragao, Fenelon Martinho Pontes, Mario Sergio Galhiane, Lucidio Souza Santos, Elson Longo, Marcelo Zampieri and Paulo Sérgio Pizani

G628 - Polymeric Electrolyte based on Pectin

Juliana Ramos de Andrade, Ellen Raphael and Agnieszka Pawlicka

G629 - Using cyclic voltammetry to determine corrosion inhibitors behavior in mortar electrodes

Silvia Beatriz Uchoa and Josealdo Tonholo

G631 - Comparative study of photodegradability of polystyrene films containing photosensitizers

Leticia Abdias Pinto, Beatriz Eleutério Goi, Carla Cristina Schmitt and Miguel Guillermo Neumann

G632 - Electroacoustic admittance applied as a tool to investigate biosensors devices

Ailton Massaiti Watanabe, Ronaldo Censi Faria, Maria Cristina Roque-Barreira and Paulo Roberto Bueno

G633 - A New three layers antenna with metamaterial

Humberto Cesar Chaves Fernandes and Marianlido Pinheiro Sousa Neto

G635 – Rodamin B (RB) photodecomposition using SnO₂/TiO₂ semiconductors

Tatiana Mazzo, Marcelo Santos Gomes, Francisco Moura Filho, Maria Aparecida Zaghete, José Arana Varela, Paulo Roberto Bueno and Leinig Antonio Perazolli

G636 - SnO₂ densification using different sintering techniques

Leinig Antonio Perazolli, Tamara Martins, Maria Augusta Nascimento Bordignon, Rafael Antonio Joaquim Ingino, Francisco Moura Filho, Maria Aparecida Zaghete and José Arana Varela

G639 - Development of a nanoparticle generator based on magnetron sputtering

Gabriel Teixeira Landi, Antonio Domingues dos Santos, Sergio Antonio Romero and Marcia Carvalho Fantini

G640 - Magnetic fluids based in spinel ferrites: a stability investigation by SAXS

Fábio Luis de Oliveira Paula, Juliano de Andrade Gomes, Geraldo José da Silva, Francisco Augusto Tourinho, Renata Aquino and Jérôme Depeyrot

G641 - Influence of different precursors on the properties of ZnO powders

Cristiana Perdigão Rezende, Juliana Batista Silva, Walter Brito and Nelycia Della Santina Mohallem

G642 - Characterization of the polymerization of carbon nanotubes through self-irradiation

Rodrigo Link Federizzi, Cássio Stein Moura and Lívio Amaral

G643 - Superficial modification of multiwalled carbon nanotubes films by pulsed DC plasma treatment: Superhydrophobic to superhydrophylic character

Erica Freire Antunes, Anderson de Oliveira Lobo, Crystal Badra Fernandes Rosa, Luis Francisco Bonetti, Evaldo José Corat, Vladimir Jesus Trava-Airoldi and Marcos Massi

G644 - Syntheses and structural and electrical characterization of KDP/ADP mixed crystals and PMMA/KDP composites

Fabrício Mendes Souza, Rodrigo Fernando Bianchi and Carlos Joel Franco

G645 - Growth and characterization of mixed crystals of Tutton salt family

Fabrício Mendes Souza, Carlos Joel Franco and Rodrigo Fernando Bianchi

G646 - Optical properties of polymeric films derivate of 4-hydroxybenzoic acid

Lucas Franco Ferreira, Letícia Maria de Souza, Leandro Gustavo da Silva, Reinaldo Ruggiero, Ana Graci Brito-Madurro and João Marcos Madurro

G647 - Deposition of CVD diamond films on boron containing graphite substrates

Lívia Elisabeth Vasconcellos de Siqueira Brandão, Rafael Fernando Pires and Naira Maria Balzaretti

G648 - Design and characterization of a novel indicator-dosimeter for blue-radiation: application in treatment of neonatal hyperbilirruntremia

Giovana Ribeiro Ferreira, Cláudia Karina Barbosa de Vasconcelos and Rodrigo Fernando Bianchi

G649 - Synthesis and electrical characterization of BPSCCO films doped with Ag

Guilherme Botega Torsoni, Claudio Luiz Carvalho and Victor Solano Reynoso

G650 - Carrier transport mechanisms and the influence of electrodes metals on the electrical properties of layer-by-layer thin PAni/PVS films

Mirela Castro Santos, Fabio Rogerio Cury and Rodrigo Fernando Bianchi

G651 - Dielectric behavior and dimer-multimer formation in mixtures of polar liquids based on the butoxiehtanol and ethanol by impedance spectroscopy

Iara aparedida de Oliveira Brito, Leandra Oliveira Salmao, Felipe Silva Bellucci and Marcos Augusto de Lima Nobre

G652 - Electrogeneration of polymeric films derivate from 2- hydroxyphenylacetic acid

Sabrina Nunes Vieira, Natália Luíza Morais, Ana Graci Brito-Madurro and João Marcos Madurro

G653 - Biodegradable green blends from bacterial poly(3-hydroxybutyrate) and polyethylene

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G655 - Production of PVP Microgels from reverse emulsions by photo-fenton reaction

Vânia Blasques Bueno and Luiz Henrique Catalani

G656 - Effect of poly(ethylene oxide) on the physico-chemical properties of poly (3-hydroxybutyrate)

Telma Nagano Moura, Gustavo Russo Blazek, Walker Soares Drumond and Wang Shu Hui

G657 - Optical properties of Ba0.95Ca0.05TiO₃ prepared by complex polymerization method (CPM)

Fabiana Villela da Motta, Ana Paula de Azevedo Marques, José Waldo Martinez Espinosa, Paulo Sérgio Pizani, Edson Roberto Leite, Elson Longo and José Arana Varella

G659 - Quantum confinement effect in ZnO nanoparticles obtained by colloidal suspensions

Georgia Virginia da Fonseca Santos, Ingrid Távora Weber, Cauê Ribeiro de Oliveira, Vagner Romito de Mendonça and Tânia Regina Giraldi

G660 - Mechanical and microstructural characterization on aeronautic steel after isothermal and intercritical heat treatments

Antonio Jorge Abdalla, Roberto Masato Anazawa, Tomaz Manabu Hashimoto and Marcelo Santos Pereira

G661 - Photoluminescence in disordered Ba0.8Ca0.2TiO3 at room temperature

Fabiana Villela da Motta, Alberthmeiry Teixeira de Figueiredo, Valéria Moraes Longo, Valmor Roberto Mastelaro, Nilson Dias Vieira Júnior, Elson Longo and José Arana Varela

G662 - Formation of nanostructured films: quantum-chemical study of the diazo dye Sudan IV

Bruno Caleffi, Vania Cardoso Fernandes, Klaus Capelle and Paula Homem-de-Mello

G663 - Morphology control of CaTiO3 powders obtained by hydrothermal-microwave by using surfactant agents

Gabriela Santilli Nascimento, Mário Lúcio Moreira, Rafael Libanori, Maria Inês Basso Bernardi, Edson Roberto Leite, José Arana Varela and Elson Longo

G664 - Thermal and mechanical performance of carbon fiber reinforced composites (CRFC)

Antonio Pascoal Del`Arco Júnior, Gilton Esperidião Ferreira, Edison Bittencourt and Francisco Cristovão Lourenço Melo

G666 - Cuban argil (paligorskita) as filtering material in purification step of jet fuel Jet-A1

Gisel Chenard Díaz, Alberto Cavado Osorio, Leonard Guimarães Carvalho, Luciana Camacho, Donato Aranda and David Iraola García

G667 - Study of Fe(3+) substitution: Kaolinite

Joao BL Martins and Elton AS Castro

G668 - Photoluminescence of Pb_xSr_yCa_{1-(x+y)}TiO₃ perovskite- typr

Juliana Milanez, Alberthmeiry Teixeira de Figueiredo, Míriam R Joya, Paulo Sérgio Pizani, Elson Longo and José Arana Varela

G669 - Photoluminescent behavior of SrZrO₃: Tm³⁺ obtained by the polymeric precursor method

Mayra Dancini Gonçalves, Laécio Santos Cavalcante, José Espinosa, Edson Roberto Leite, José Arana Varela, Elson Longo and Ieda Lúcia Viana Rosa

G670 - Leakage current, ferroelectric and structural properties in Pb_{1-x}BaxTiO₃ thin films prepared by chemical route

Fenelon martinho pontes, Lucídio Souza Santos, Mario Sergio Galhiane, Débora silva Pontes, Elson Longo, Adenilson José Chiquito and Paulo Sérgio Pizani

G672 - Styrene grafted onto polypropylene and polytetrafluoroethylene films

Henrique Perez Ferreira, Camila Pinheiro Souza, Heloísa Augusto Zen, Adriana Napoleão Geraldes, Geise Ribeiro, Duclerc Fernandes Parra and Ademar Benévolo Lugão

G674 - PLED Materials: Technology and nanotoxicology

Elvo Calixto Burini Junior, Nádia Araci Bou Chacra, Emerson Roberto Santos, Fernando Josepetti Fonseca, Ely Antonio Tadeu Dirani and Adnei Melges de Andrade

G675 – Structural and morphological characterization of Pb_{1-X}Ba_XTiO₃ thin films prepared by chemical route: an investigation of phase transition

Willian Eliseu, Fenelon Martinho Pontes, Mario Sergio Galhiane, Lucídio Souza Santos, Elson Longo, Debora Silva Pontes and Paulo Sérgio Pizani

G676 - Structural, electrical and X-ray photoconductor properties of lead iodide films

José Fernando Condeles and Marcelo Mulato

G677 - Alternating conductivity in disordered materials and its applications on semiconducting polymers

Wanderson Maia Pimenta, Fabio Rogerio Cury and Rodrigo Fernando Bianchi

G678 - Niobium off-center phenomenon in K₂FeNb₄O₁₅-delta nanostructured powders

Alan Rogério Ferreira Lima, Silvana Lanfredi and Marcos Augusto de Lima Nobre

G679 - Characterization and evaluation of magnetic zeolite for adsorption of dye

Mitiko Yamaura, Denise Alves Fungaro and Terezinha Elizabeth Mendes de Carvalho

G681 - Miscibility studies on blends of polychloroprene/natural rubber by viscometry

Adonilson Reis Freitas, Luciana Gaffo, Adley Forti Rubira and Edvani Curti Muniz

G682 - The influence of ionic liquids on doped polyaniline properties

Roselena Faez, Fernanda Ferraz Bazito and claudia wurlitzer

G683 - Hydrothermal microwave method applied to obtention of nano-sized SnO₂ powders

Gabriela Santilli Nascimento, Elson Longo, Mário Lúcio Moreira, Ser M Tebcherani, Elaine Cristina Paris and José Arana Varela

G684 - Effect of strontium addition on phase transition temperature of PZT thin films

Gilda Hisae Mabuchi, Fenelon Martinho Pontes, Elson Longo, Debora Silva Pontes, Mario Sergio Galhiane, Lucidio Souza Santos and Carlos Emerson Costa

G685 - Chemical synthesis and characterization of PAni in ionic liquids

Fernanda Ferraz Bazito, Roselena Faez and Cintia Marques Correia

G686 - Use of the photoacoustic spectroscopy in the investigation of Cd_{1-x}MnxS and Cd_{1-x}CoxS Nanocrystals in Glasses Matrix

Ernesto Soares de Freitas Neto, Anselmo Fortunato Ruiz Rodriguez, Ricardo Souza da Silva, Paulo César de Moraes, Alessandra dos Santos Silva, Anielle Christine Almeida Silva and Noelio Oliveira Dantas

G687 - Preparation and characterization of elastomers and ionic liquids composites – Precursors for solid electrolytes

Roselena Faez, Luciana Nakahara, Rafael Mello and Fernanda Ferraz Bazito

G688 - Morphological surface characterization of polymer thin films by image processing tools

Michele Aparecida Salvador, Roberto Mendonça Faria, Rafael Longaresi and Andrea Gomes Campos Bianchi

G689 - Zirconia-coated alumina prepared by impregnation with polymeric resin and thermal establish of coating

Cleocir José Dalmaschio, Edson Roberto Leite and Elson Longo

G690 - Effects of hydrothermal treatment on structure and morphology of TiO₂

Francini Pizzinato Kataoka, Fenelon Martinho Pontes, Cristiano Morita Barrado, Elson Longo, Lucidio Souza Santos and Mario Sergio Galhiane

G691 - Optical properties of luminescent liquid crystal molecules

Nathália Fernandes Marcelo, Tatiana Duque Martins, André Alexandre Vieira, Rodrigo Cristiano, Hugo Gallardo and Ivan Helmuth Bechtold

G692 - Synthesis and characterization of cellulose acetate gels using aromatic dianhydrides

Vagner Roberto Botaro, Cláudio Gouvêa dos Santos and Victor Alvarenga Oliveira

G693 - Production of second generation biofuel: Theoretical Study

Gisel Chenard Díaz, Neyda Om Tapanes, Donato A Gomes Aranda, José Walkimar Mesquita de Carneiro, Márcia Martins Castoldi and L N Barbosa

G694 - Role of interstitial pinning in the dynamical phases of vortices in superconducting films

Rafael Plana Simões, Pablo Antonio Venegas and Denise Fernandes de Mello

G696 - Preparation of photoactive ZnO/TiO₂ nanocomposites for dye degradation

Maria Terezinha Caruso Sansiviero and Shirley Santana Silva

G698 - Characterization of castor Oil polyurethane resin by X-RAY diffraction and mechanical analysis

Graziella Trovati, Edgar Aparecido Sanches, Paulo Henrique Leuteviler Pereira, Salvador Claro Neto and Gilberto Orivaldo Chierice

G699 - Surface effects in ZnO nanocrystals

Aline Luciana Schoenhalz, Jeverson Teodoro Arantes, Adalberto Fazzio and Gustavo Martini Dalpian

G701 - Flexural properties of nitinol alloys at buccal condition

Andre Itman Filho, Rosana Vilarim Silva, Christian Mariani Santos and Carlos Rodrigues Gouvêa

G702 - Influence of annealing on ZnTe thin films

Alexandre Ramos da Silva Gonçalves, Carlos Luiz Ferreira, Leila Rosa de Oliveira Cruz, Wagner Anacleto Pinheiro and José Antônio de Souza Fernandes

G703 - In vitro characterization of NiTi shape memory surface modified by nitrogen plasma ion implantation

Silmara Cristina Baldissera, Leonardo Kyo Kabayama, Maria Margareth da Silva, Mario Ueda and Jorge Otubo

G704 - Quenching analysis of changes on the heat treatment profiles caused by the insertion of zirconia artificial pinning centers in Bi₂₂₁₂ superconducting tapes

Eliana Cursino, David Simon Schmool, Jose Sanz Garitaonandia, Cristina Bornio Nunes and Durval Rodrigues Júnior

G705 - Ab-initio study of local magnetic properties, electronic structure and calculation of the BCC Fe-Mo phase diagram

Ney Sodré Santos, Pablo Guillermo Gonzales-Ormeño, Cláudio Geraldo Schön and Helena Maria Petrilli

G706 - Ethylene polymerization using metallocene catalyst supported on SBA-15 and AISBA-15

Ordovaldo Cordeiro Silva, Fátima Vieira Marques, Renata Santos Pereira and Lindoval Domiciano

G709 - Photoacoustic spectroscopy investigation of band and gap energy as a function of PbS concentration

Ricardo Souza da Silva, Noelio Oliveira Dantas, Priscila Marques Naves, Thais Nogueira Gonçaga, Fanyao Qu, Anselmo Fortunato Ruiz Rodriguez and Paulo César de Moraes

G710 - Carbon nanotubes purification and synthesis by thermal hydrocarbons decomposition

Ana Maria Rocco, Neocir Silva, Felipe Augusto Moro Loureiro, Maria Iaponeide Fernandes Macedo and Guillermo Solórzano Naranjo

G711 - Compliant laminates of UHMWPE fiber/EVA

Cristina Moniz Araujo Lopes, Joseana Betisa Vernini and Francisco Cristovão Lourenço Melo

G712 - The adsorption of ethylene on Pd/gamma-Al₂O₃ clusters: A DFT study

Maurício Macedo Cruz, Walkimar Mesquita Carneiro and Carlton Anthony Taft

G714 - Colloidal synthesis of nanorods silver synthesized by citrate method in presence of ammonia

Luiz Fernando Gorup and Emerson Rodrigues Camargo

G715 - Hydrothermal synthesis of ZnO nano-structures. An experimental and theoretical investigation

Renata Cristina Lima, Leilane Roberta Macário, Valéria Moraes Longo, Rafael Erlo, Naiara Letícia Marana, Elson Longo and José Arana Varela

G716 - Charge dissipation on the surface of oxidized polyethylene

Thiago Lima Burgo, Sérgio Bertazzo and Fernando Galembeck

G718 - Miscibility and properties of blends based on poly(3-hydroxybutyrate) (PHB) and poly(vinyl chloride) (PVC)

Telma Nagano Moura, Walker Soares Drumond and Wang Shu Hui

G719 - Molecular interactions and miscibility in ternary poly(ethylene oxide) blends

Ana Maria Rocco, Robson Pacheco Pereira and Ricardo Oliveira Júnior

G720 - Raman imaging and confocal Raman spectroscopy for characterization of dual wall carbon nanotubes

Carla Verissimo, Angela Ortiz, Mara A Canesqui, Stanislav A Moshkalev, P R Mudimela, A G Nasibulin and E I Kauppinen

G721 - Photoacoustic investigations of K₂SO₄ and LiIO₃ doped with Mn and Co by watery solution

Anielle Christine Almeida Silva, Alefe Bandeira Mesquita, Alessandra dos Santos Silva, Ernesto Soares de Freitas Neto, Elias Oliveira Serqueira, Anselmo Fortunato Ruiz Rodriguez and Noelio Oliveira Dantas

G722 - Theoretical study of zig-zag, armchair and quiral nanotubes of [(Si)n]m

Marcos dos Reis Vargas, José Divino dos Santos, Carlton Anthony Taft, João Batista Lopes Martins and Elson Longo

G723 - Effect of variation of reagents on the morphology barium lead titanium synthesized from microwave hydrothermal method

Sayonara Andrade Eliziário, Camila Soares Xavier, Maurício Roberto Bomio, Elson Longo and José Arana Varela

G724 - Blue and green photoluminescence emissions in barium zirconate powders

José Waldo Martinez Espinosa, Laécio Santos Cavalcante, Júlio César Sczancoski, Paulo Sérgio Pizani, José Arana Varela and Elson Longo

G725 - Understanding the stabilization mechanism of colloidal dispersions of metal oxides nanoparticles

André Farias de Moura, Rafael Oliveira Silva, Tiago de Góes Conti and Edson Roberto Leite

G727 - Copper action as modifier agent of structure and mechanical properties of alloy Al-0, 6% Mg-0, 4% Si

Paulo Cordeiro Machado, João Bosco de Andrade Lobo, Oscarina da Silva Passos, Fernando Maurício de Sousa Vale Filho and José Maria do Vale Quarlesma

G728 - Development of gray cast iron alloys for dry cylinders fabrication

Neide Aparecida Mariano and Amando Cruz Pires

G729 - (Pb,Ba)TiO₃ nanopowders synthesized by a adapted domestic microwave hydrothermal

Sayonara Andrade Eliziário, Camila Soares Xavier, Maurício Roberto Bomio, Elson Longo and José Arana Varela

G730 - Application of photoacoustic spectroscopy of nanocrystals of Zn_{1-x}A_xTe (A = Mn, Co) in the glasses

Alessandra dos Santos Silva, Sebastião William da Silva, Paulo César de Morais, Ernesto Soares de Freitas Neto, Anielle Christine Almeida Silva, Anselmo Fortunato Ruiz Rodriguez and Noelio Oliveira Dantas

G731 - Electrochemical characterization of poly(3-hydroxy-phenylacetic acid) on graphite electrodes

Ronalt Marcelino Oliveira, Sabrina Nunes Vieira, Diego Leoni Franco, Ana Graci Brito-Madurro and João Marcos Madurro

G732 - Microstructure characterization of alumina substrates formed by cold roll pressing

Laís Koshimizu and Márcio Raymundo Morelli

G733 - Optical behavior of Eu³⁺ complex with benzenetricarboxylate ligant

Ernesto Rezende Souza, Ivan Guide Silva and Hermi Felinto Brito

G734 - Optical investigation of excited states on undoped AlGaAs/GaAs wild parabolic quantum wells

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G735 - Optical emission of Cr³⁺centers in three different phases of strontium aluminate

Raimundo Nonato da Silveira Junior, Ada Lopez, Raul Jose da Silva Camara Mauricio da Fonseca and Elisa Maria Baggio Saitovitch

G736 - Theoretical study of the quirality of ZnO nanotubes and their properties

José Divino dos Santos, Marcos dos Reis Vargas, Eduardo de Moraes, João Batista Lopes Martins, Elson Longo and Carlton Anthony Taft

G737 - Study of the microstructure evolution in Bi2212 tapes doped with ZrO₂ heat treated using different profiles

Eliana Cursino, David Simon Schmool, Jose Sanz Garitaonandia, Cristina Bornio Nunes and Durval Rodrigues Júnior

G738 - Red light emitting persistent luminescence in Pr³⁺-doped silicate

Roberval Stefani, Carlos Alberto Alves Carvalho, Lucas Veloso Carvalho Rodrigues, Maria Cláudia França Cunha Felinto, Luiz Antonio Oliveira Nunes and Hermi Felinto Brito

G739 - Influence of the pH of the precursor media in the nanostructure and in the efficiency of production of tin dioxide

Leonardo Almeida Barizon, Dayse Iara Dos Santos and Margarida Juri Saeki

G741 - Ab initio study of electronic and magnetic properties of Co clusters in Nb and Mo hosts

Ricardo Noboru Igarashi, Carlos Alberto Moreira de Melo Neto, Ângela Burlamaqui Klautau and Helena Maria Petrilli

G742 - Improved dynamical simulations of Hydrogen-doped gold nanowires

Márcio Teixeira Varella, Edwin Hobi Jr, Adalberto Fazzio and Antônio José Roque da Silva

G743 - Adsorption of transition metals on MgO defective surfaces

Neil De la Cruz Centeno and Carlton Anthony Taft

G744 - Methodology of material selection for organic thin-film transistors based on charge carrier mobility characterization

Marco Roberto Cavallari, Cleber Amorim, Gerson Santos, Sérgio Mergulhão, Fernando Josepetti Fonseca and Adnei Melges de Andrade

G746 - Nonaqueous synthesis of antimony tin oxide nanocrystals

Rafael Oliveira da Silva, Tiago de Góes Conti, Daniel Grando Stroppa, Rafael Libanori, Elson Longo, Edson Roberto Leite and Emerson Rodrigues Camargo

G747 - Optical and spectroscopic properties of soda lime alumino-silicate glasses doped with Er³⁺ and Ag⁺

Zélia Maria Da Costa Ludwig, Luiz Carlos Barbosa, Walter Maigon Pontuschka, Maria José Valenzuela Bell, Júlia Maria Giehl, Valdemir Ludwig and Ródnei Abbade Abreu

G748 - Recent Advances in magnetic dipole transition of Nd³⁺ ions in glasses

Elias Oliveira Serqueira, Anselmo Fortunato Ruiz Rodriguez, Qu Fanyao, Alessandra dos Santos Silva, Anielle Christine Almeida Silva and Noelio Oliveira Dantas

G749 - Analysis of PbTiO₃ polymorphic phases processed by hydrothermal-microwave method

Elaine Cristina Paris, Rafaela da Silveira André, Mário Lúcio Moreira, Antonio Gouveia de Souza, Miryam Ricom Joya, Paulo Sérgio Pizani and Elson Longo

G750 - DFT calculations, FTIR and Raman studies of azocrown ethers derivatives with different lateral groups

Flávio Makoto Shimizu, Aguinaldo Robinson de Souza, Carlos José Leopoldo Constantino, Jan Franciszek Biernat and José Alberto Giacometti

G751 - Effect of pH of colloidal suspension on activation energy of deep levels in SnO₂ thin films obtained via sol-gel

Leandro Piaggi Ravaro and Luis Vicente de Andrade Scalvi

G752 - Role of citrate precursor on cerium oxide morphology and its application into the catalytic ozonation process

Mauro Francisco Pinheiro da Silva, Tereza Silvia Martins, Luciana Serra Soeira, Renato Sanches Freire, Paulo Celso Isolani and Flávio Machado de Carvalho

G753 - Electrical characterization of nanofluid based on the suspension of nanoparticles of K₂S₂Nb₅O₁₅ in the butoxyethanol by impedance spectroscopy

Leandra Oliveira Salmazo, Iara Aparecida de Oliveira Brito, Felipe Silva Bellucci and Marcos Augusto de Lima Nobre

TUESDAY, SEPTEMBER 30 - POSTER HALL**16:30 - 18:30****G502 - Elastic relaxation of porous silicon**

Yury Pusep, Ariano de Giovanni Rodrigues, José Cláudio Galzerani, Roberto Arce, Roberto Roman Koropecki and David Comedi

G554 - Ti K-edge XANES studies of ATiO₃ perovskite compounds: comparison between experiment and theory

Valmor Roberto Mastelaro and Alain Michalowicz

G579 - Hydrothermal-microwave synthesis of CaTiO₃ powders: Optical and structural properties

Mário Lúcio Moreira, Gabriela Santilli Nascimento, Elaine Cristina Paris, Julio Ricardo Sambrano, Valéria Moraes Longo, José Arana Varela and Elson Longo

G604 - Different origins of green-light photoluminescence emission in structurally ordered and disorder powders of calcium molybdate

Valéria Moraes Longo, Alberthmeiry Teixeira de Figueiredo, Adaci B Campos, Josevaldo WM Espinosa, Julio Ricardo Sambrano, José Arana Varela and Elson Longo

G623 - The role of NaCl in the synthesis process of polyaniline using high-frequency ultrasonic waves

Robson Américo de barros and Walter Mendes de Azevedo

G754 - Applications of photoacoustic sensing techniques of labels and structural fluorescents based chalcogenides of cadmium

Anielle Christine Almeida Silva, Noelia Oliveira Dantas, Alessandra dos Santos Silva, Leonardo Damigo, Elias Oliveira Serqueira, Anselmo Fortunato Ruiz Rodriguez and Paulo César de Moraes

G756 - Influence of Sr content on the structure and electrical conductivity of La_{1-x}Sr_xMnO₃

Guilherme Oliveira Siqueira, Rose Marie Belardi, Marcia Caldeira Brant, Túlio Matencio and Rosana Zacarias Domingues

G760 - Effects of metal seeding on the electron field emission properties of carbon nanostructures

Mauro Vanderlei Amorim, Helder José Ceragioli, Francisco Tadeu Degasperi, Roberto Fonseca Iannini, Jose Ciro Rojas Quispe, Alfredo Carlos Peterlevitz and Vitor Baranauskas

G761 - Polymerization of glycerol with organic acids difunctionals, characterization spectroscopic and degradation for UV

Bruno Quirino Araújo, Antônia Maria das Graças Lopes Citó and José Ribeiro dos Santos Júnior

G762 - Template synthesis of cobalt Nanowires

Valeska da Rocha Caffarena, Jefferson Leixas Capitaneo, Alberto Passos Guimarães, Walter Sydney Dutra Folly and Elizandra Martins Silva

G763 - Polyaniline/kaolinite nanocomposites obtained by In situ polymerization

JJefferson Leixas Capitaneo, Valeska da Rocha Caffarena, Falvio Teixeira da Silva and Magali Silveira Pinho

G764 - Synthesize and magnetic properties of new rare earth series RPd₅Al₂

Raquel Almeida Ribeiro, Takahiro Onimaru, Yukihiro F Inoue, Marcos Abreu Avila, Keisuke Shigetoh and Toshiro Takabatake

G765 - Doping of nanocrystalline TiO₂ for effective photocatalysis in visible spectral range

Klaus Krambrock, Frederico Dias Brandão, Lucas Emanuel França de Magalhães, Maurício Veloso Brant Pinheiro, Luiz Orlando Ladeira and Klaus Krambrock

G766 - Functionalization of Y₂O₃:Sm³⁺ and Y₂O₃:Tb³⁺ materials

Claudia Akemi Kodaira, Ana Valéria Santos Lourenço, Roberval Stefani, Hermi Felinto Brito and Maria Claudia França da Cunha Felinto

G767 - Functionalized luminescent particles: preparation and optical properties

Ana Valéria Santos Lourenço, Claudia Akemi Kodaira, Ernesto Rezende Souza, Maria Claudia França da Cunha Felinto and Hermi Felinto Brito

G768 - Influence of the CaTiO₃ in hydroxyapatite nanorods processed by hydrothermal-microwave method

Rafaela da Silveira André, Gabriela Santilli Nascimento, Elaine Cristina Paris, Mario Lúcio Moreira, Giovanni Pimenta Mambrini, Antonio Gouveia de Souza and Elson Longo

G769 - Superconducting properties after different heat treatment profiles applied to a Nb₃Sn wire with nanometric pinning centers

Lucas Barboza Sarno Da Silva, Carlos Alberto Rodrigues, Cristina Bormio-Nunes, Nei Fernandes de Oliveira Jr and Durval Rodrigues Júnior

G770 - Assembling techniques to prepare Diffusion Pairs of U-Mo and Al

Ilson Carlos Martins and Adonis Marcelo Saliba-Silva

G771 - Development of theoretical model for anisotropy polycrystalline superconductors using the effective-medium approach

Alexey Cruz García, Ernesto Govea Alcaide, Pedro Muné Bandera and Renato de Figueiredo Jardim

G772 - Block copolymers containing 3-hydroxybutyrate and isosorbide succinate or L-lactide

Danielle Juais, Romeu Casarano, Michael Jaffe and Luiz Henrique Catalani

G774 - Blue luminescence at room temperature of SrTiO₃ powders prepared by polymeric precursor method

Maria das Graças Sampaio Costa, Carlos de Oliveira Paiva Santos and Elson Longo

G775 - Influence of Li⁺ and Sc³⁺ additives in the PMN-PT thin films

Gerson Matiuzzi Xavier Junior, Maria Aparecida Zaghete, Lucas Francisco de Melo, Amauri de Paula Jardim, José Arana Varela and Elson Longo

G776 - Effects of barium on phase formation and morphology of lead

Lucas Francisco de Melo, Maria Aparecida Zaghete, Francisco Moura Filho and Alberto Adriano Cavalheiro

G777 - Effects of templates on morphology and properties of lead zirconate-lead titanate ceramics

Guilhermina Ferreira Teixeira, Francisco Moura Filho and Maria Aparecida Zaguete

G778 - Influence of LSCO and LNO oxide electrodes in crystallographic orientation of PCT10 ferroelectric thin films

Marcelo Zampieri, Fenelon Martinho Pontes, Debora da Silva Lima Pontes, Francisco Moura Filho, Alexandre Zirpoli Simões, José Arana Varela and Elson Longo

G779 - Ferroelectric-relaxor behavior of Ba(Ti0.90Zr0.10V0.02)O₃ ceramics

Francisco Moura Filho, Alexandre Zirpoli Simões, Marcelo Zampieri, Leinig Antonio Perazolli, Maria Aparecida Zaghete, José Arana Varela and Elson Longo

G780 - Influence of nitrogen atmosphere on electrical properties of Ba(Ti0.90Zr0.10)O₃ + V0.02 ceramics

Alexandre Zirpoli Simões, Francisco Moura Filho, Içamira Costa Nogueira, Leinig Antonio Perazolli, Maria Aparecida Zaghete, José Arana Varela and Elson Longo

G781 - Effect of growth rate and cooling rate on nodule count during solidification of ductile iron

Ricardo Batista de Andrade and Rezende Gomes dos Santos

G782 - Lead zirconium titanate (PZT) perovskite synthesized by microwave hydro-thermal method

Guilhermina Ferreira Teixeira, Francisco Moura Filho, Maria Aparecida Zaguete and Gisele Gasparotto

G783 - Depolymerization of post-consumer PET by glycolysis: study of reaction kinetics

andre riul, mateus eurico viana, adley fortí rubira and edvani curtí muniz

G784 - Influence of thermal treatments on the hidriding kinetics of the U-3Zr-9Nb and U-4Zr-6Nb alloys

Bruno Moreira Aguiar, Daniel Martins Braga, João Bosco Paula, Walter Brito, Natalia Mattar Cantagalli and Wilmar Barbosa Ferraz

G785 - Analysis of dielectric behavior of PUR/CB composite

Michael Jones da Silva, Anderson Ricardo Justo de Araújo, Haroldo Naoyuki Nagashima and Darcy Hiroe Fujii Kanda

G786 - Influence of hydrothermal treatment temperature on the TiO₂ nanoparticles size and thin films prepared by spin-coating

Luciana Nuñez, Rodrigo Parra and Maria Aparecida Zaghete

G787 - Evaluation of defects formed in the system SrTiO₃:Nd

Márcia Rejane Santos da Silva, Severino Jackson Guedes Lima, Elson Longo, Antonio Gouveia de Souza and Ieda Maria Garcia Santos

G789 - Influence of the modifier on the photoluminescent properties of the Ca1-xSrxSnO₃

Mary Cristina Ferreira Alves, Elaine Cristina Paris, Jose Waldo Martinez Espinosa, Paulo Sérgio Pizani, Elson Longo, Antonio Gouveia de Souza and Ieda Maria Garcia Santos

G791 - Pure PHB and blends of PHB and natural rubber in films form

Gilberto de Campos Fuzari Junior, José Antonio Malmonge, Sônia Maria Malmonge and Walter Katsumi Sakamoto

G792 - Computer analysis for structural and electronic properties of SrZrO₃

Amanda Fernandes Gouveia, Prescila Glaucia Christianini Buzolin and Julio Ricardo Sambrano

G793 - Effect of thermal parameters in the permeability of interdendritic channels during solidification of aluminum alloys

Mirian de Lourdes Noronha Motta Melo, Jean Robert Pereira Rodrigues and Rezende Gomes dos Santos

G795 - EPR, Magnetization and photoacoustic spectroscopy characterization of Pb1-xMnxS nanocrystals growth in glass matrix

Ricardo Souza da Silva, Noelio Oliveira Dantas, Anselmo Fortunato Ruiz Rodriguez, Miguel A Nocak, Fernando Pelegriini, Aderbal Carlos de Oliveira and Paulo César de Morais

G796 - Deposition of GaAs thin films by sputtering and resistive evaporation techniques

Julio Cesar Santos, André L Jesus Pereira, Tatiane de Fátima Pineiz, José Humberto Dias Silva and Luis Vicente de Andrade Scalvi

G797 - Glass forming ability OF Ti-Fe-Co-Zr and Ti-Fe-Co-B alloys

Claudemiro Bolfarini, Bruno Torquato Ramasco, Marcelo Falcão Oliveira, Walter José Botta and Claudio Shyinti Kiminami

G798 - Development and characterization of functionalized nanostructures with TiO₂ for catalytic applications

Cristiane Wienke Raubach, Neftalí Lenin Villarreal Carreño, Tuane Porto da Silva, Matheus Zorzoli Krolow, Giselle de Boit Nuernberg, Humberto Vieira Fajardo and Elson Longo

G800 - Theoretical studies of fullerenes C70, C80 e C96

Leandro da Silva Ribeiro, Marcos dos Reis Vargas, José Divino dos Santos, Elson Longo and Carlton Anthony Taft

G801 - FDTD analysis of an isotropic metamaterial with negative refraction index

Victor Dmitriev and Tiago Carvalho Martins

G803 - Characterization of chitosan/c hondroitin sulfate (CT/CS) swollen hydrogel during the CS releasing, investigated at several pH conditions

Juliana Francis Piai

G804 - Catalytic application of nanoparticles of SnO₂-SiO₂ doped with Europium in the steam reforming of ethanol

Cristiane Wienke Raubach, Michael Ramos Nunes, Neftalí Lenin Villarreal Carreño, Irene Teresinha dos Santos Garcia, Humberto Vieira Fajardo, Matheus Zorzoli Krolow and Tuane Porto da Silva

G806 - Influence of the synthesis conditions in the photoluminescence of ZnO obtained by Domestic Hydrothermal Microwave Method

André Luiz Menezes de Oliveira, Jefferson Maul de Andrade, Paulo Sérgio Pizani, Elson Longo, Antonio Gouveia de Souza, Ieda Maria Garcia Santos and Dawy Keyson

G807 - ZnO flowers synthesized by Domestic Hydrothermal Microwave Method

André Luiz Menezes de Oliveira, Rosa Maria Medeiros Marinho, Severino Jackson Guedes Lima, Elson Longo, Antonio Gouveia de Souza, Ieda Maria Garcia Santos and Dawy Keyson

G808 - Study of nanocrystalline (Pr,Nd)-Fe-B alloys with TiC and Cr additions

Regina Keiko Murakami, Vinicius Cappellano de Franco, Hercílio Rodolfo Rechenberg, Lincoln Gomes, Suzana Bottega Peripolli, Frank Patrick Missell and Valquíria Villas-Boas

G809 - Composite of immature coir fibers and starch/EVOH/glycerol blends

Morsyleide de Freitas Rosa, Bor-sen Chiou, Eliton Souto de Medeiros, Delilah Wood, Luiz Henrique Capparelli Mattoso, William Orts and Syed Imam

G810 - Low temperature luminescence spectroscopy analysis of local structure of nanostructured Eu(III) doped Zn₇Sb₂₀12

Andreza Cristina Souza Silva, Ana Maria Pires and Marcos Augusto de Lima Nobre

G811 - Effect of halogen structure on stereospecific polymerization of 1,3-butadiene

Ivana Lourenço de Mello, Cintia Nogueira Ferreira and Fernanda Margarida Barbosa Coutinho

G812 - PbZr0.5Ti0.5O₃: DFT periodic approach

Nélio Henrique Nicoleti and Julio Ricardo Sambrano

G813 - Partial least squares prediction of the first hyperpolarizability of donor-acceptor organic molecules

Ana Elizabeth de Araújo Machado, Benício Barros Neto and Alfredo Arnóbio de Souza da Gama

G814 - SERS study of the interaction of gold nanoparticles and 4'-(4-methyl-thio) phenyl terpyridine

Jonnatan Julival dos Santos, Juliano Alves Bonacin, Koiti Araki and Henrique Eisi Toma

G815 - Structural characterization of manganese and zinc ferrites synthesized by polymeric precursor method

Murillo Longo Martins, Juliana Catarina Bruno, Alberto Adriano Cavalheiro, Margarida Juri Saeki and Ariovaldo de Oliveira Florentino

G816 - Is the element 118 a inert noble gas?

Cristiane Primiano Franzin, Aguinaldo Robinson de Souza, Luiz Guilherme Macedo and julio Ricardo sambrano

G817 - Electrochemical double layer capacitor based on solid polymer electrolyte and conductive polymer nanocomposites using multi-walled carbon nanotube and carbon black

Rodrigo Lassarote Lavall, Raquel Silveira Borges, Hällen Daniel Rezende Calado, André Santarosa Ferlauto, Rodrigo Gribel Lacerda, Luiz Orlando Ladeira and Glaura Goulart Silva

G818 - Study of the evolution of Unidirectional solidification Horizontal in the alloy Al-0,6%Mg-0,8%Si establishing correlations between the thermal variables in process with structures of solidification

Emmanuelle Sá Freitas, Thiago Augusto Pacheco Tavares, Oscarina Silva Passos, Fernando Maurício de Sousa Vale Filho and José Maria Vale Quaresma

G819 - Electrical behavior of Poly(3-hydroxybutyrate) and Natural rubber blends

Anderson Ricardo Justo de Araújo, Gilberto de Campos Fuzari Junior, Walter Katsumi Sakamoto, Darcy Hiroe Fujii Kanda and José Antônio Malmonge

G820 - Studies of the physical properties of K₂SO₄ crystal doped with Mn and Co under effect of ionizing radiation

Walter Elias Feria Ayta, Anielle Christine Almeida Silva, Alefe Bandeira Mesquita and Noelio Oliveira Dantas

G821 - Simulation of alternating conductivity in composite of polyaniline and carbon black

Haroldo Naoyki Nagashima

G822 - Influence of chemical composition on the basic properties of hydrotalcite-like compounds and on their catalytic performance on biodiesel synthesis

Cristiane Assumpção Henriques, Paula Moraes Veiga, Carla Maria Salerno Polato, Claudia Oliveira Veloso and Zilacleide Silva Barros

G823 - Microwave-assisted hydrothermal method of morphologically controlled oxides nanostructured

Diogo Paschoalini Volanti, Mário Lúcio Moreira, Dawy Keyson, Marcelo Orlandi, Leilane Roberta Macário, José Arana Varela and Elson Longo

G824 - Optical excitation of intra-bandgap states in rare-earth doped tin dioxide and influence of crystallite dimensions

Tatiane de Fátima Pineiz, Luis Vicente de Andrade Scalvi, Vitor Diego Lima Silva, Leandro Piaggi Ravarro and Margarida Juri Saeki

G825 - Morphological characterization of self-assembled films of Polyaniline alternated with Natural Rubber

Cicero Rafael Cena da Silva, Marcelo Ornaghi Orlandi, Luiz Francisco Malmonge and Jose Antonio Malmonge

G979 - Insights on growth mechanism of Carbon Nanofibers: Catalyst particle studied by Transmission Electron Microscopy and additional techniques

Daniel Bretas Roa, Rogério Magalhães Paniago and Rodrigo Gribel Lacerda

WEDNESDAY, OCTOBER 01 - POSTER HALL

16:30 - 18:30

G612 - Carbon fibers surface treatment by dielectric barrier discharge (DBD)

Jossano Saldanha Marcuzzo and Choyu Otani

G637 - SnO₂ densification using microwaves sintering (MWS)

Maria Augusta Nascimento Bordignon, Tamara Martins, Rafael Antonio Joaquim Ingino, Francisco Moura Filho, Maria Aparecida Zagheti, José Arana Varela and Leinig Antonio Perazolli

G654 - Influence of the nanodiamonds addition on PDC Properties

Guerold Sergueevitch Bobrovitchii, Ana Lúcia Skury and Sérgio Neves Monteiro

G673 - Langmuir isotherm model applied to surface modification of solid surfaces in liquid environment

Rafael Libanori, Rafael Silva, Marcos Pini França, Elson Longo, Emerson Rodrigues Camargo, Cauê Ribeiro de Oliveira and Edson Roberto Leite

G700 - Development of pseudoboehmites for syntheses of nanosystems to release molecules with pharmacological applications

Richard Wagner Novickis, Leila Figueiredo de Miranda, Mauro César Terence, Waldemar Alfredo Monteiro, Roberto Rodrigues Ribeiro and Antonio Hortencio Munhoz Jr

G740 - Spin freezing and large surface contribution for the magnetic anisotropy of MnFe₂O₄ nanoparticles of ferrofluids

Renata Aquino, Jerome Depeyrot, Francisco Augusto Tourinho, Emmanuelle Dubois and Régine Perzynski

G745 - Luminescent properties of Lanthanide Luminescent complexes

Gilberto Vitor Zaia, Emerson Roberto Santos, Elvo Calixto Burini Junior, Gerson Miguel Fett, Fernando Josepetti Fonseca, Adnei Melges de Andrade and Eracles Epaminondas Teotonio

G757 - Surface spins disorder of core-shell ferrite nanoparticles of ferrofluids

Jérôme Depeyrot, Eduardo Carvalho Sousa, Renata Aquino, Francisco Augusto Tourinho, Marcelo Henrique Sousa, Hercílio Rodolfo Rechenberg and Régine Perzynski

G788 - Intense visible photoluminescence in SrSnO₃ at room temperature

Mary Cristina Ferreira Alves, Elaine Cristina Paris, José Waldo Martinez Espinosa, Paulo Sérgio Pizani, Elson Longo, Antonio Gouveia de Souza and Ieda Maria Garcia Santos

G799 - Evaluation of thermal-induced stresses and strains of a directionally solidified Al-1wt%Ni alloy casting

Moises Meza Pariona, Luis Claudio Benine, manuel venceslau Caté, José Eduardo Spinelli and Amauri Garcia

G827 - Polyolefins and modified ecoflex® bio-fibre composites

Carlos Alberto Correa, Jose Carlos Oliveira, Alcides Lopes Leão, Ayse Alemdar and Mohini Sain

G828 - Sintering temperature and feldspar concentration - factors that control the strength of bone China

Ricardo Yoshimitsu Miyahara and Samuel Marcio Toffoli

G829 - First Principles Studies of hydrogem adsorption on Ni(111), Ni(100) AND Ni(100) surfaces

Andrea de Jesus Santana, Arles Víctor Gil Rebaza, Myrian Gomes Athayde, Cleber dos Anjos Santana and Tereza Cristina de Farias Guimarães

G830 - Concept of order-disorder in structural properties of SrTiO₃ samples

Sergio Ricardo de Lazaro, Alberthmeiry Teixeira de Figueiredo, Valéria Moraes Longo, Elson Longo, José Arana Varela, Danielle Berger and Sergio Mazurek Tebcherani

G831 - Study of the influence of the silver nanoparticles on the linear and non-linear refraction indexes of tellurite glasses

Júlia Maria Giehl, Walter Maigon Pontuschka, Sarah Isabel Alves, Antonio Martins Figueiredo Neto, Luiz Carlos Barbosa, Niklaus Ursus Wetter and Zélia Maria Da Costa Ludwig

G832 - Evolution of phase icosahedral the during the annealed of the Al-Cu-Fe alloy produced for conventional casting under surrounding atmosphere

Maria das Dores Bandeira Barroso, Silvana Garcia Viana, Tadeu Antônio Azevedo Melo, Severino Jackson Guedes Lima and Rodinei Gomes Medeiros

G833 - Local structure study of multiferroic BiMn₂O₅ with EXAFS

Gilberto Fernandes Lopes Fabbris, Gabriel Andreguetto, Eduardo Granado, Nestor Emilio Massa, María Jesús Martínez Lope, José Antonio Alonso and Gustavo de Medeiros Azevedo

G836 - Photoinduced effects in glasses and films of lead doped antimony phosphate

Sandra Tessutti Dias, Máximo Siu Li and Fábio Simões de Vicente

G837 - Study to recycle a industrial solid waste generated by foundry sands

Javier Mazariegos Pablos and Eduvaldo Paulo Sichieri

G838 - Highly disordered SnO₂ obtained by the domestic hydrothermal microwave method

Rosa Maria Marinho, Paulo Sérgio Pizani, Severino Jackson Guedes Lima, Elson Longo, Antônio Gouveia Souza, Ieda Maria Garcia Santos and Dawy Keyson

G840 - Surface enhanced excimer fluorescence in perylene thin films: a study of enhancement factor

Diogo Volpati, Nicholas Pieczonka, Ricardo Aroca and Carlos José Leopoldo Constantino

G841 - Synthesis and purification of carbon nanotubes on carbon fibers at different graphitization index

Leonardo Iusuti Medeiros, Erica Cristina Almeida, Erica Freire Antunes, Evaldo José Corat, Neidenei Gomes Ferreira and Mauricio Ribeiro Baldan

G842 - Pt nanoparticles supported on CeO₂-Al₂O₃: synthesis, characterization and catalytic properties in the reforming of methane

Paulo Juliano Santos Prieto, Vanessa Bongalhardo Mortola, Renata Uema Ribeiro, Adriana Paula Ferreira, Paula Haddad, Daniela Zanchet and José Maria Corrêa Bueno

G843 - Hartree-Fock approach of HH+ and HeH+ in confinement

André Luiz Fassone Canova, Aguinaldo Robinson de Souza and Julio Ricardo Sambrano

G844 - Magnetic configuration of NiFe/FeMn/NiFe systems

Valberto Pedruzzi Nascimento, Edson Caetano Pasamani, Fernando Pelegrini, Ana Paula Dorneles Alvarenga, Willian Alayo, Miguel Tafur and Elisa Maria Baggio Saitovitch

G845 - Influence of methane concentration and bias on filaments carburization time and diamond nucleation density on molybdenum

Alessandra Venâncio Diniz, Evaldo José Corat and Vladimir Jesus Trava-Airoldi

G846 - Color difference in chromium doped pigments with rutile structure

Renata Ferreira Lins, Fagner Ticiano Gomes Vieira, Dannielly Silva Melo, Carlos Alberto Paskocimas, Antônio Gouveia Souza, Elson Longo and Ieda Maria Garcia Santos

G847 - Influence of molybdenum doping in SnO₂:Cr pigments

Renata Ferreira Lins, Fagner Ticiano Gomes Vieira, Soraia Carvalho Souza, Severino Jackson Guedes Lima, Elson Longo, Antônio Gouveia Souza and Ieda Maria Garcia Santos

G848 - SnO₂:Ni pigments synthesized by the polymeric precursor method

Vitor Rodrigo Melo, Hebert Henrique Souza Lima, Luiz Edmundo Bastos Soledade, Elson Longo, Carlos Alberto Paskocimas, Antônio Gouveia Souza and Ieda Maria Garcia Santos

G849 - Alkaline-earth oxide supported on ZnO for transesterification of corn oil to biodiesel

Herbet Bezerra Sales, Jailson Alexandre Ribeiro Carvalho, Ieda Maria Garcia Santos, Antonio Gouveia de Souza, Francisco Savio Mendes Sinfrônio and Severino Jackson Guedes Lima

G850 - Synthesis of MoO₃ supported on SnO₂ by the polymeric precursor method

Natan Pires Sá, Luiz Edmundo Bastos Soledade, Antonio Gouveia de Souza, Ieda Maria Garcia Santos, Francisco Savio Mendes Sinfronio and Severino Jackson Guedes Lima

G852 - Influence of Nd³⁺ coordination in the color of SrSnO₃:Nd³⁺ pigment

Soraia Carvalho de Souza, Mary Cristina Ferreira Alves, Elson Longo, Fagner Ticiano Gomes Vieira, Severino Jackson Guedes Lima, Antonio Gouveia de Souza and Ieda Maria Garcia Santos

G853 - SnO₂: Fe³⁺ pigments obtained by the polymeric precursor method

hebert henrique souza lima, Vitor Rodrigo Melo, Renata Ferreira Lins, Elson Longo, Carlos Alberto Paskocimas, Antônio Gouveia Souza and Ieda Maria Garcia Santos

G854 - Polypropylene films grafted with styrene using PCBTf as solvent

Geise Ribeiro, Heloisa Augusto Zen, Adriana Napoléão Geraldès, Henrique Perez Ferreira, Camila Pinheiro Souza, Duclerc Fernandes Parra and Ademar Benévolo Lugão

G855 - Characterization of 6101 alloy refined and modified with different copper contents

Fernando Maurício de Sousa Vale Filho, Paulo Cordeiro Machado, Johnyson Pereira Feitosa, Thiago Augusto Pacheco Tavares and José Maria do Vale Quaresma

G856 - Influence of the milling conditions in the properties of SrFeO₃-δ

Maurines Nunes Andrade, Mary Cristina Ferreira Alves, Soraia Carvalho de Souza, Marcia Rejane Santos da Silva, Antônio Gouveia Souza, Ieda Maria Garcia Santos and Severino Jackson Guedes Lima

G857 - Influence of the LNO oxide electrodes in the ferroelectric properties of the PCT10 thin films

Marcelo Zampieri, Fenelon Martinho Pontes, Debora da Silva Lima Pontes, Francisco Moura Filho, Alexandre Zirpoli Simões, José Arana Varela and Elson Longo

G858 - Nanostructured carbon deposition in the surface of metallic thin films

Matheus Zorzoli Krolow, Neftalí Lenin Villarreal Carreño, Criastiane Wienke Raubach, Irene Teresinha dos Santos Garcia and Michael Ramos Nunes

G859 - Metal/conjugated polymer interface probed by SFG spectroscopy

Francisco Carlos Barbosa Maia, Rogério Valaski, Roberto Mendonça Faria and Paulo Barbeitas Miranda

G860 - Black pigments from the Sr(Fe0.5Sn0.5)O₃ system

Maurines Nunes Andrade, Mary Cristina Ferreira Alves, Soraia Carvalho de Souza, Marcia Rejane Santos da Silva, Antônio Gouveia Souza, Ieda Maria Garcia Santos and Severino Jackson Guedes Lima

G861 - Photoluminescent emission in CoWO₄ at room temperature

Jailson Machado Ferreira, André L M Oliveira, José Waldo Martinez Espinosa, Paulo Sérgio Pizani, Elson Longo, Antônio Gouveia Souza and Ieda Maria Garcia Santos

G862 - Study of the electrical properties of poly(p-phenylene sulfide) PPS doped with Copper Phthalocyanine (CuPc)

Ednilton Morais Cavalcante

G863 - Influence of Alq₃ layers on OC1C10-PPV PLED performance

Helena Liberatori Gimaiel, Gerson Santos, Ely Antonio Tadeu Dirani, Fernando Josepetti Fonseca and Adnei Melges de Andrade

G864 - Vortex states in patterned nanomagnets investigated by near-field microscopy

Felix G. G. Hernandez, Mariana Pojar, Luiz Sampaio and Antonio Domingues dos Santos

G865 - Anomalous conductivity in ZnO: multi-technique study of interactions with H and H₂

Andréa Dias Quintão and Marília Junqueira Caldas

G866 - Structural behavior of fullerite at High pressure and high temperature

Kelen Soares Trentin, Vicente Fiorini Stefani, Naira Maria Balzaretti, Altair Soria Pereira and João Alziró Herz da Jornada

G868 - Prediction of new M@AU_6 gold nanoclusters

Luiz Guilherme Macedo and Keli Cristina Bassetto

G869 - Biodegradable ternary blends of chitosan/ poly(vinyl alcohol)/poly(lactic acid) produced by emulsion processing

Antonio José Felix Carvalho and Rafael Grande

G870 - Influence of synthesis conditions in the anatase-rutile transition of TiO₂

Fagner Ticiano Gomes Vieira, Sayonara Andrade Eliziário, Severino Jackson Guedes Lima, Elson Longo, Antonio Gouveia de Souza and Ieda Maria Garcia Santos

G871 - Reactivity indices of MEH-PPV in chloroform

Augusto Batagin Neto, Francisco Carlos Lavarda, João Francisco Borin and Carlos Frederico Graeff

G872 - Influence of Fe³⁺ in the defects of perovskite structure

Fagner Ticiano Gomes Vieira, Soraia Carvalho Souza, Renata Ferreira Lins, Elson Longo, Severino Jackson Guedes Lima, Antonio Gouveia de Souza and Ieda Maria Garcia Santos

G873 - Influence of molybdenum on the phase composition of Fe-MgO system as a catalyst for CVD synthesis of carbon nanotubes

Ana Paula de Carvalho Teixeira, José Domingos Ardisson, Clascídia Aparecida Furtado, Waldemar Augusto de Almeida Macedo, Luiz Orlando Ladeira and Adelina Pinheiro Santos

G874 - Hydrothermal synthesis of lead molybdate particles

Mauricio Roberto Bomio, Camila Soares Xavier, Ricardo Luis Tranquilin, Júlio César Sczancoski, Laécio Santos Cavalcante, José Arana Varela and Elson Longo

G875 - Influence of the SiO₂ surface functionalization on the growth of Ge nanostructures by LPCVD

Segundo Nilo Metsnza Muñoz, Ricardo Sis Moreira, Eugenio Rodriguez Gonzales, Ioshiaki Doi and Newton Cesário Frateschi

G876 - Experimental and theoretical results about evaluate phase of the Sn_{1-x}TixO₂ material

Danielle Berger, Sergio Mazurek Tebcherani, Sergio Ricardo de Lazaro, Thiago Sequinel, Alberthmeiry Teixeira de Figueiredo, Rafael Erlo and Elson Longo

G877 - SnO₂ nanotubes of the rutile type with plane [110] gas sensors for CH₄, C₂H₆, C₄H₁₀, C₂H₅OH

Marcio Douvel Ferreira, José Divino dos Santos, Carlton Anthony Taft, João Batista Lopes Martins and Elson Longo

G878 - Synthesis of pure and RE-doped A(REE)(WO₄)₂ nanocrystalline powders for photonic applications where A = Na, Li and RE = La, Gd, Yb, Nd

Jair Ricardo de Moraes, Vera Lucia Mazzocchi, Carlos Benedicto Ramos Parente, Sonia Lícia Baldochi and Zélia Soares Macedo

G879 - Study of Ba_{0,5}Ni_{0,5}TiO₃ and BaNi_{0,5}Ti_{0,5}O₃ as nanometric ceramic pigments

Denise Proença, Kírian Pimenta Lopes, Mariana de Abreu Cruz, Edson Roberto Leite, Elson Longo and Ieda Lúcia Viana Rosa

G880 - Macroporous silicon structural characteristics study based on SEM image processing

Daniel Scodeler Raimundo, Priscila Braga Calíope, Danilo Roque Huanca and Walter Jaimes Salcedo

G881 - Backside contact effect on the structural features of macroporous and mesoporous silicon

Danilo Roque Huanca, Daniel Scodeler Raimundo and Walter Jaimes Salcedo

G882 - Estudo da biodegradabilidade e de propriedades mecânicas de um compósito de PHB e fibras naturais

Deyse Elisabeth Ortiz Suman Carpenter, Heinz Gunter Schaaf and Hedina De Marchi

G883 - Synthesis of LaFeO₃ via pechini and combustion method by microwave irradiation

Andréia Cavalcante de Lima, Ana Paula da Silva Peres, Dulce Maria de Araujo Melo, Zelma Rocha da Silva and Roseane Maria Pessoa Betânia Oliveira

G884 - Electrophoretic deposition of carbon nanotubes

Juliana Rodrigues Franco, Maximiliano Luis Munford, André Santarosa Ferlauto, Sergio Oliveira, Lívio Bruno Jacques da Silva, Erick S Ávila and Luiz Orlando Ladeira

G885 - Prolapse-free basis sets for actinides

Luiz Guilherme Macedo, Wagner Fernando Angelotti, Aguinaldo Robinson de Souza and Julio Ricardo Sambrano

G886 - Influence of Differents Dopants and Solvents on Adsorption, Morphology and Stability in Self-Assembled films Polyaniline/Natural Rubber

Cícero Rafael Cena da Silva, Luiz Francisco Malmonge and José Antonio Malmonge

G887 - AB initio calculation of hydrogen adsorption on Pd(111) surface

Cleber dos Anjos Santana, Tereza Cristina de Farias Guimarães, Andrea de Jesus Santana, Arles Víctor Gil Rebaza and Myrian Gomes Athayde

G888 - Characterization of the dielectric permittivity of nanoparticles of ferroelectric oxide niobate with stoichiometry KSr₂NiNb₄O₁₅-delta by impedance spectroscopy

Marcos Augusto de Lima Nobre, Felipe Silva Bellucci, Iara Aparecida de Oliveira Brito, Leandra Oliveira Salmazo and Aldo Eloizo Job

G889 - Theoretical studies of sodium and hydrogen atoms interaction with single wall carbon nanotubes

Marcos dos Reis Vargas, José Divino dos Santos, João Batista Lopes Martins, Elson Longo and Carlton Anthony Taft

G890 - DFT Study for adsorption of O₂ on tetrahedral Pd AND Pd/Co

Mauricio Macedo Cruz, Walkimir Mesquita Carneiro and Carlton Anthony Taft

G891 - Scintillation mechanism of pure and Tb³⁺ doped BaY₂F₈

Ana Carolina Mello, Gerson Hiroshi Nakamura, Sonia Lícia Baldochi and Mário Ernesto Giroldo Valério

G892 - Simulation of Protein Folding in the square lattice: enumeration of possible conformations

Paula Martins da Silva, Aguinaldo Robinson de Souza and Antonio Caliri

G893 - Tuning of macroscopic properties of SnO₂ nanopowders by equilibrium control between surface excess and solid solution

Gilberto José Pereira and Douglas Gouveia

G894 - Influence of cobalt amount in the color of Zn_{2-x}CoxTiO₄ spinel**G895 - Spontaneous polarization analysis in nanopowders of nickel doped potassium strontium niobate with tetragonal tungsten bronze structure**

Silvana Lanfredi, Alan Rogério Ferreira Lima and Marcos Augusto de Lima Nobre

G898 - Influence of Ca, Sr and Ba on the photoluminescent properties of Pb(Zr, Ti)O₃

Cristiane Vila, Valéria Moraes Longo, Margarete S Silva, Roberto WA Franco, Mario Cilense, José Arana Varela and Elson Longo

G900 - Leaching of heavy metals in recycled aggregates from CDW and mortars with recycled aggregates

Cecília Ogliari Schaefer, Janaíde Cavalcante Rocha and Malik Cherif

G901 - Characterization of post-consumer HDPE/PP blends

Derval dos Santos Rosa, Celso Luis de Carvalho, Cristina das Graças Fassina Guedes, M S M Petro and Maria Inês Bruno Tavares

G902 - Opto-electrical behavior of polymer light emitting diodes structures of PFT – poly(9,9'-n-dihexil-2,7-fluorenodiilvinyleno-alt-2,5thiophene)

Gerson dos Santos, Fernando Josepetti Fonseca, Adnei Melges de Andrade and Isabel Grova

G903 - Crystallite size and microstrain evolution as function of temperature and time of the K₂Nb₅O₁₅ nanostructured powders prepared by modified poliol method

Alan Rogério Ferreira Lima, Leandra Oliveira Salmazo, Silvania Lanfredi and Marcos Augusto de Lima Nobre

G904 - The influence of electron transport layer on new blend polymer light-emitting diodes

Gerson dos Santos, Fernando Josepetti Fonseca, Andei Andrade Melges, Jeferson Ferreira de Deus, Leni Campos Akcelrud and Luiz F Ribeiro Pereira

G905 - Dielectric properties of monolayer and multilayer materials for use as radar absorbing materials

Luiza de Castro Folgueras and Mirabel Cerqueira Rezende

G906 - Analysis of the structural properties of the TeO₂-based glasses by XRD, FTIR and DSC techniques

Vanessa Orsi Gordo, Salmo Moreira Sidel, Aline Alcamin Monteiro, Elio Idalgo and Keizo Yukimitu

G907 - Optical dispersion and the structure of tellurite glasses

Aline Alcamin Monteiro, Vanessa Orsi Gordo, Otavio Sakai, Wilson Alves Capanema, Salmo Moreira Sidel and Keizo Yukimitu

G908 - Study of electrical and optical properties of PMMA nanocomposites filled with ITO nanobelts

Elen Poliani da Silva Arlindo, Juliana Aparecida Lucindo, Hermes Adolfo de Aquino and Marcelo Ornaghi Orlandi

G909 - Adsorption of CH₄, C₂H₆, C₄H₁₀, C₂H₅OH on SnO₂ surface

Marcio Douvel Ferreira, José Divino dos Santos, Carlton Anthony Taft, Antonio Celso Antunes, Sandra Regina Masseto Antunes and Elson Longo

G910 - Magnetic, structural and electronic properties of R-doped BiFeO₃ (R=La,Gd)

Julian Andres Munevar Cagigas, Dalber Ruben Sanchez Candela and Elisa Maria Baggio Saitovitch

G911 - Influence of calcium addition in the crystalline structure of LaCoO₃ perovskites

Danniely Silva Melo, Érika Pinto Marinho, Dulce Maria de Araujo Melo, Severino Jackson Guedes Lima, Elson Longo, Antonio Gouveia de Souza and Ieda Maria Garcia Santos

G912 - Computer simulation study of the reduction process of rare earth ions in SrAl₂O₄ hosts

Marcos Vinícius dos Santos Rezende, Mário Ernesto Giroldo Valerio and Romel Menezes Araujo

G913 - Selective purification of carbon nanotubes synthetized by CVD based on fenton chemistry

Sirlaine Diniz Ferreira Brandão, Ana Paula de Carvalho Teixeira and Cristiano Fantini Leite

G914 - Relation between synthesis parameters and the synthesis efficiency on the growth of 1D tin oxide structures

Pedro Henrique Suman and Marcelo Ornaghi Orlandi

G915 - Silica/ytterbium nanofiller embedded in resin and adhesive restorations (as dental materials)

Marcelo Dourado Moncks, Neftalí Lenin Villarreal Carreño, Evandro Piva, Thiago Oliveira, Fabrício Aulo Ogliari, Giana da Silveira Lima and Matheus Zorzoli Krolow

G916 - Alumina (Al₂O₃) insulating layer obtained by Al deposition by the resistive evaporation technique, for application in field effect transistors (MOSFET)

Jorge Luiz Barbosa Maciel Jr. and Luis Vicente de Andrade Scalvi

G917 - Detection of Josephson - Abrikosov vortex transition line in Y_{1-x}Pr_{x}Ba_{2}Cu_{3}O_{7-d} polycrystalline superconductors

Victor Anthony García Rivera, Cecilia Staria, Sergey Sergenkov Ushakov, Euclides Marega Junior and Fernando Manuel Araújo Moreira

G918 - Anomalous temperature dependence of the Tb³⁺ photoluminescence in a-SiNx:H

Leandro R Tessler and Igor N Vidal

G919 - Growth and characterization of indium tin oxide nanobelts

Juliana Aparecida Lucindo, Marcelo Ornaghi Orlandi and Edson Roberto Leite

G920 - Polypropylene/coir fiber composites: effect of coupling agents

Sônia Marlí Bohrz Nachtigall and Evelise Fonseca Santos

G921 - Theoretical analysis and numerical simulation of the mechanisms of Ostwald Ripening of QDs

Zacarias Eduardo Fabrim and Gerson Feldmann

G922 - Structural and electrical properties of annealed a-SiC:H PECVD thin films

Alessandro Ricardo Oliveira, Inés Pereyra and Marcelo Nelson Carreño

G923 - Mechanical and morphological properties of kaolin-containing TPVs

Maria Helena Polgatti Moreira, Sônia Marlí Bohrz Nachtigall and Maria Madalena Camargo Forte

G927 - A theoretical methodology capable to furnish quantitatively comparable values of first polarizability for organic compounds

Antonio Eduardo da Hora Machado, Newton Martins Barbosa Neto and Leonardo Tsuyoshi Ueno

G928 - Phase equilibria in the BaF₂-YF₃ system

Gerson de Godoy Nakamura and Sonia Lícia Baldochi

G929 - Calorimetric studies of Surface Energy and grain boundary energy of oxides: Effects on nanoparticles sintering

Ricardo H.R. Castro, Ricardo Belchior Torres, Douglas Gouvea and Alexandra Navrotksy

G930 - Microstructural characterization of geopolymeric concrete reinforced for steel fiber

Alisson Rios Silva, Clelio Thaumaturgo and Felipe José ilva

G931 - Surface energy of pure and doped tin oxide

Ricardo H.R. Castro, Douglas Gouvea, Pilar Hidalgo and Alexandra Navrotksy

G932 - Characterization of CaWO₄ ceramics powders doped in lanthanum ions obtained via the Pechini method

Ana Paula da Silva Peres, Andréia Cavalcante de Lima, Zelma Rocha da Silva and Dulce Maria de Araujo Melo

G933 - Development of mixtures of LDPE with addition of pro-oxidizing calcium stearate

Derval dos Santos Rosa, Cristina das Graças Fassina Guedes, Jéssica Folli, Marcelo Augusto Gonçalves Bardi, Mayara Elisa Rezende and Maria Regina Calil

G934 - Synthesis of layered hydrotalcite material for CO₂ capture

Aline Araújo Alves and Antonio Souza Araújo

G935 - Computational fluid dynamic modeling of different flow fields designs for direct ethanol fuel cell

Deyse Elisabeth Ortiz Suman Carpenter, Henry França Meier and Pablo Martins Belchor

G936 - Electric resistivity and relaxation behavior of a biodiesel derived from soy oil by impedance spectroscopy

Felipe Silva Bellucci, Iara Aparecida de Oliveira Brito, Leandra Oliveira Salmazo, Aldo Eloizo Job and Marcos De Lima Nobre

G937 - Luminescence of rare earth complex nanofilms as a function of the self-assembled silver in smart substrates

Ana Clara Raposo Salazar, Ricardo Schneider, Camila Afonso Ferreira Araújo and Petrus Santa Cruz

G938 - Crystallite size-dependent metastable phase diagram of nanostructured ZrO₂-Sc₂O₃ solid solutions

Paula Macarena Abdala, Diego Germán Lamas, Marcia Fantini and Aldo Félix Craievich

G939 - Crystal structure and local atomic order of nanocrystalline ZrO₂-Y₂O₃ solid solutions

Ismael Oscar Fábregas, Diego Germán Lamas, Rodolfo Oscar Fuentes, Noemí Elisabeth Walsöe, Marcia Fantini, Aldo Félix Craievich and Rogério Junqueira Prado

G940 - Computer simulation of OF Ti³⁺, Ti⁴⁺, Ru⁴⁺, Hf⁴⁺ dopants in LiNbO₃

Romel Menezes Araujo, Mário Ernesto Giroldo Valeiro and Robert A Jackson

G941 - Test of resolution of XRD equipment using the rietveld method

Vinicius Nonato Bezzon and Marcelo Ornaghi Orlandi

G942 - Kinetic study of Silver nanoparticle growth in smart substrates obtained by bottom-up

Camila Afonso Ferreira Araújo, Ricardo Schneider, Ana Clara Raposo Salazar and Petrus Santa Cruz

G943 - Characterization by coupling TG/FTIR of the natural rubber membrane
*Deuber Lincon Agostini and Aldo Eloizo Job***G946 - Modeling the organizational structure of amorphous Sb₂O₃-SbPO₄ vitreous system by EXAFS and Monte Carlo Reverse Simulation: preparation of inputs**

Marcilene Cristina Gomes, Aguinaldo Robinson de Souza, Mauricio Nalin and Fernando Luis Barroso

G948 - Influence of different glycerins on the mechanical properties of polypropylene/plasticized starch blends

Marcelo Augusto Gonçalves Bardi and Derval dos Santos Rosa

G949 - Effect of the calcium, magnesium and cobalt stearates on thermal properties of isotactic polypropylene

Diogo Grillo, Marcelo Augusto Gonçalves Bardi and Derval dos Santos Rosa

G950 - Mechanical characterizations of modified polypropylene and biodegradable polyester blends

Diogo Grillo, Marcelo Augusto Gonçalves Bardi and Derval dos Santos Rosa

G951 - A computational study for the (101-0) and (112-0) non-polar surfaces of GaN

Melânia Cristina Mazini, Naiara Letícia Marana and Julio Ricardo Sambrano

G952 - Thermal diffusivity study of the polymeric conductor blends

Anderson José Silva maurity, José Antonio Mal-monge, Luiz Francisco Malmonge, Claudio Luiz Carvalho, Alex Otávio Sanches, João Borges da Silveira and Victor Ciro Solano Reynoso

G953 - Electric and photoelectrical characterization of photovoltaic cells with TiO₂ nanocrystalline sensitized with organic dye

Anderson José Silva maurity, Claudio Luiz Carvalho, Alex Otávio Sanches, João Borges da Silveira, Fabrícia Roberta Lunas and Victor Ciro Solano Reynoso

G955 - Photoinduced Effects in X-ray irradiated copper doped [Sb(PO₃)₃]_n-Sb₂O₃ glassy films

Dilleys Ferreira da Silva, Fábio Simões De Vicente and Máximo Siu Li

G956 - Finite-elements simulation of the anodic nono-oxidation on silicon surfaces using silicon-nitride tips

Diego Kops Pinto and Sebastião Gomes dos Santos Filho

G957 - Surface morphology study of La-SnO₂ films by atomic force microscope

Paulo Gonçalves Junior, Jose Hilton Rangel, Marcelo Moizinho Oliveira, Luis Presley Santos, Mario Lúcio Moreira and Elson Longo

G959 - Thermal behavior and degradation of polymer derivate from 4-hydroxybenzoic acid

Lucas Franco Ferreira, Letícia Maria de Souza, Rosana Maria Nascimento de Assunção, Hernane da Silva Barud, Carla da Silva Meireles, Ana Graci Brito-Madurro and João Marcos Madurro

G961 - Flexural mechanical properties of NiTi alloy heat treated

andre itman filho, rosana vilarim silva, christian mariani santos and carlos rodrigues gouvêa

G962 - Layer by Layer TiO₂ thin films and photodegradation tests of congo red by resonance raman spectroscopy

Maria Terezinha Caruso Sansiviero, David Sotero dos Santos, Aldo Eloizo Job and Ricardo Aroca

G963 - Production of photonic crystal fibers in phosphate and tellurites glasses

Danilo Manzani, Younes Messaddeq, Frédéric Smek-tala and Sidney José Lima Ribeiro

G964 - Microstructural characteristics of BST and BST:Sn thin films by chemical route

Iêdo Alves Souza, Alexandre Zirpoli Simões, Luis P S Santos, J M Rivas Mercury and Elson Longo

G965 - Energy transfer of layer-by-layer PPV/CR films

Luz Carlos Poças, Alexandre Marletta, Raína Au-gusta Silva, Newton Barbosa Neto, José Leonil Du-arte, Ivan Lupiano Dias and Edson Laureto

G967 - Influence of the sorbitol in Zn-Mn alloy electrodeposition and on the Zn-Mn morphology and composition

Wesley Rubin, Elton Patrick Barbano and Ivani Apa-recida Carlos

G968 - Comparison of emission properties of a blue copolymer and its correspondent homopolymers

Laura Oliveira Péres, Elaine da Silveira Leite, Thays Cristina Fernandes dos Santos, Fabio Conte Correia and Shu Hui Wang

G969 - On the synthesis of ZnS Nanoparticulates

Daniel Travessini, Luciana Valgas de Souza and Carlo Requião da Cunha

G970 - Optical Characterization of zinc oxide produced by spray-pyrolysis

Fabrícia Roberta Lunas, Anderson José Silva Mau-ritury, João Borges da Silveira, Claudio Luiz Carvalho and Victor Ciro Solano Reynoso

G972 - Resistive thin film absorber in the microwave band

Samuel Machado Leal da Silva and Carlos Luiz Ferreira

G973 - Characterization of catalytic material TiO₂/MoO₃ prepared via zol-gel

Rusiene Monteiro Almeida, Nereu Victor Nazário Tenório, Sky Macário, Simoni Margareti Plentz Meneghetti and Mário Roberto Meneghetti

G974 - Metal-chitosan complexation method for the preparation of MgO catalyst

Rusiene Monteiro Almeida, Gizelle Inácio Almerindo, Simoni Margareti Plentz Meneghetti, Mário Roberto Meneghetti, Luiz Fernando Dias Probst and Carlos Eduardo Maduro Campos

G975 - A computational analysis of the ZnS (10-10) non-polar surface

Dorival Vendramini Júnior, Naiara Letícia Marana and Julio Ricardo Sambrano

G976 - P-type copper oxide thin films: comparison between different deposition approaches

Pedro Parreira

G977 - Energy transfer between poly(p-phenylene vinylene) derivatives and ionic dyes in solution

Willy Glen Santos and Miguel Guillermo Neumann

G978 - Surface modification in natural fibers for improvement of polymeric composites mechanical properties

Hamilton Magalhães Viana, Didier Perrin, Tábata Tomaz Quevedo, Aline Braga Madruga, Vitor Félix Silva, Roberta Monteiro Mello and Daliana Borges Gomes

SYMPOSIUM H**Nanomaterials and nanotechnology applied to biotechnology and agriculture****MONDAY, SEPTEMBER 29 - POSTER HALL****16:30 - 18:30****H501 - Dynamic-mechanical analysis of natural rubber from new clones (IAC 300 series)**

Rogério Manoel Biagi Moreno, Patrini Danielle Galiani, Paulo de Souza Gonçalves and Luiz Henrique Capparelli Mattoso

H503 - Amperometric biosensors for triglycerides based on layer-by-layer films

Flávio Makoto Shimizu, Marli Leite de Moraes, José Alberto Giacometti, Osvaldo Novais de Oliveira Júnior and Marystela Ferreira

H504 - Microscopy analysis of chitosan-peroxidase layer-by-layer films

Thais Fernandes Schmidt, Luciano Caseli and Osvaldo Novais de Oliveira Júnior

H505 - Structure and biocompatibility of mesoporous silica

Larissa Souza Mendes, Gustavo Rocha de Castro, Aldo Félix Craievich and Marco Antonio Martines

H506 - Rhodamine B encapsulated into functionalized mesoporous silica channels

Juliana Jorge, Hermínia Felinto Brito, Gustavo Rocha de Castro and Marco Antonio Utrera Martines

H508 - Using infrared spectroscopy to investigate the interaction between chitosan and mixed DMPC-cholesterol films

Felipe José Pavinatto, Luciano Caseli, Heurison Souza Silva, Paulo Barreiras Miranda, Tapani Viitala and Osvaldo Novais de Oliveira Júnior

H509 - The effect of dopamine on layer-by-layer films containing natural gums investigated by vibrational spectroscopy

Igor Lebedenco Kitagawa, Carla Eiras and Carlos José Leopoldo Constantino

H510 - Acute toxicity of long-circulating and pH-sensitive liposomes containing cisplatin in mice after intraperitoneal administration

Elaine Amaral Leite, Alberto Julius Alves Wainstein, Ana Paula Drummond Lage Wainstein, Luiz Gonzaga Vaz Coelho, Ângela Maria Quintão Lana, Paulo Roberto Savassi-Rocha and Mônica Cristina De Oliveira

H511 - Study of the photoactivated electronic transference from Rhodamine B to TiO₂ - SnO₂ encapsulated nanoparticles

Raul Pereira Fregonesi, Tania Regina Giraldi and Cauê Ribeiro de Oliveira

H512 - Zircon mineral, a natural sensor of fission fragments, and CR-39, a synthetic sensor of alpha particles

Airton Natanael Coelho Dias, Carlos Alberto Tello, Felipe Ponciano Novaes, Cleber José Soares, Beatriz Caroline Barra, Ana Maria Osório and Carlos José Leopoldo Constantino

H513 - Tissue distribution of long-circulating pH-sensitive liposomal and free cisplatin in Ehrlich ascitic tumor bearing mice after intraperitoneal administration

José Geraldo Vicente Coimbra Araújo, Luciene das Graças Mota, Valbert Nascimento Cardoso, Luiz Gonzaga Vaz Coelho, Paulo Roberto Savassi-Rocha, Márcio Tadeu Pereira and Mônica Cristina De Oliveira

H514 - Distinct approaches to produce thin films with different molecular architectures containing biological phospholipids applied as sensing units

Pedro Henrique Benites Aoki, Diogo Volpati, Wilker Caetano, Antônio Riul Jr and Carlos José Leopoldo Constantino

H515 - Ultrathin films of copper phthalocyanine produced using the layer-by-layer technique

Felipe Chagas Storti and Carlos José Leopoldo Constantino

H516 - AFM investigation of Spin-coated Cellulose Films

Alessandra Luzia Da Róz, Fabio de Lima Leite, Antônio José Felix Carvalho, Vatencir Zucolotto and Osvaldo Novais de Oliveira Júnior

H517 - Interaction of antiparasitic peptides against African Sleeping Sickness with cell membrane models

Cauê Pintaúde Pascholati, Felipe José Pavinatto and Luciano Caseli

H518 - Interaction of antiparasitic peptides against African Sleeping Sickness with cell membrane models

Cauê Pintaúde Pascholati, Felipe José Pavinatto, Luciano Caseli, Claudio DSilva and Osvaldo Novais de Oliveira Júnior

H519 - Size-dependence on fluorescence quantum yield of CdSe/ZnS core-shell quantum dots

Viviane Pilla, Leandro Procópio Alves, Egberto Munin and Marcos Tadeu Pacheco

H520 - Interaction of amphiphilic oligonucleosides with cell membrane models

Érica Azzolino Montanha, Felipe José Pavinatto, Luciano Caseli, Daniel Huster and Osvaldo Novais de Oliveira Júnior

H521 - Correlation of the effects of cryoprotectants over the supramolecular organization of bilayers and liposomes size composed by 1,2-dioleoylphosphatidylethanolamine (DOPE)

Mônica Cristina De Oliveira, Talita Guieiro Ribeiro Rocha, Rogério Paniago and Letícia Coelho

H522 - Thin films and thermal behavior of carbohydrate based surfactants and carboxymethylcellulose acetate butyrate

Jorge Amim Júnior, Yoshio Kawano and Denise Freitas Siqueira Petri

H523 - A new method for obtaining quaternary salts of chitosan

Douglas de Britto and Odílio Benedito Garrido de Assis

H524 - Wettability evaluation of Layer-by-layer proteases enzymatic films for biosensor application

Luis Carlos de Moraes, Rubens Bernades Filho and Odílio Benedito Garrido de Assis

H525 - Sensors made with LbL films of chitosan/carboxymethylcellulose for detecting metal ions

Daniele C Venanzi, Felipe José Pavinatto, Débora Terezia Balogh, Marystela Ferreira, Osvaldo Novais de Oliveira Júnior and Antonio José Felix Carvalho

H526 - Functionalization of adamantane molecules

Joelson Cott Garcia, Lucy Vitória Credidio Assali, Wanda Valle Marcondes Machado and João Francisco Justo

H527 - Biopolymers for edible food coatings

Odílio Benedito Garrido de Assis and Lucimara Aparecida Forato

H531 - Thin films of lignins extracted from sugar cane bagasse fabricated by physical vapor deposition (PVD)

Gislaine Felipe Martins, Daniel Pasquini, Antônio Aprígio Curvelo and Carlos José Leopoldo Constantino

H532 - Characterization of natural rubber from new Brazilian clones to use in nanocomposites

Maria Alice Martins, Paulo de Souza Gonçalves and Luiz Henrique Capparelli Mattoso

H533 - Studies about an ET using PANI/Phthalocyanine and PHMB/Phthalocyanine sensors for GQ of Coffee

Rejane Cristina Trombini Pereira, Ednaldo José Ferreira, Alexandre Claudio Botazzo Delbem, Osvaldo Novais de Oliveira Júnior and Luiz Henrique Capparelli Mattoso

H536 - Synthesis of heterogeneous catalysts for the biodiesel production

Rafael Francisco Kutkoski, Fernando Jose Rodrigues, Luis Fernando Cótica, Antonio Laverde Jr, Nivaldo Elio de Souza and Ivair Aparecido Santos

H537 - Optimization of homogeneous catalysts for the biodiesel production

Rafael Francisco Kutkoski, Fernando Jose Rodrigues, Luis Fernando Cótica, Antonio Laverde Jr, Nivaldo Elio de Souza and Ivair Aparecido Santos

H539 - Characterization of amino surface modulated magnetite nanoparticles

Rodrigo Fernando Costa Marques, Anselmo Fortunato Ruiz Rodriguez, José Antonio Huamani Coaquira, Taciane P Costa, Judes Gonçaves dos Santos, Paulo César de Moraes and Miguel Jafelicci Júnior

TUESDAY, SEPTEMBER 30 - POSTER HALL

16:30 - 18:30

H540 - Synthesis and characterization of magnetite nanoparticles for hyperthermia

Mariana Castanon, Gean Rocha, Giselle Ferraris, Carlos Diaz-Aguila, Marcelo Henrique Prado, Alexandre Malta Rossi and Priscilla Vanessa Finotelli

H542 - Intelligent materials with sensing properties to proteins and haemometabolites

Alessandra Nogueira Santos and Alvaro Antonio Alencar de Queiroz

H543 - Degradation of rhodamine by fenton process using magnetic ferrites nanoparticles

Cezar Carvalho de Arruda, Tânia Regina Giraldi and Cauê Ribeiro de Oliveira

H544 - Alumina nanotubes derivatized with synthetic antimicrobial peptides

Marcelo Porto Bemquerer, Magali Aparecida Rodrigues, Mariana Torquato Quezado Magalhães, Marcelo Henrique Sousa, Luciano Paulino Silva and Carlos Bloch Jr

H545 - Attenuation properties of nanocomposites for use in radiological protection

Marcel Zago Botelho, Roseli Kunzel, Solange Binoto Fagan, Marta Palma Alves and Carlos Pérez Bergmann

H547 - Theoretical modelling of ZnS:Cu nanospheres with TDDFT ab-initio methods

Ecio José França

H548 - Controlled release formulations of atrazine: synthesis and characterization

Letícia Gomes de Ávila, Simone Benvenuti Leite, Deborah Pinheiro Dick and Adriana Raffin Pohlmann

H549 - Controlled release formulations of mesotrione: synthesis and characterization

Letícia Gomes de Ávila, Simone Benvenuti Leite, Deborah Pinheiro Dick and Adriana Raffin Pohlmann

H550 - PEDOT:PSS thin films as gas sensors

John Paul Hempel Lima and Adnei Melges de Andrade

H551 - Optical storage in langmuir-blodgett (LB) films of a DR13-Containing triblock

Rafaela Cristina Sanfelice, Felipe José Pavinatto and Osvaldo Novais de Oliveira Júnior

H552 - Biosensors development: Manufacturing and simulation of meso-impactors for blood manipulation

Roberto Eduardo Bruzetti Leminski, Eliphas Wagner Simões, Fábio Peppe Beraldo, Fernando Luis de Almeida and Maria Lúcia Pereira da Silva

H554 - Spray-dried encapsulation of the anti-inflammatory drug ibuprofen into cellulose acetate

Andrea Cristina Pio Santos, Débora Thomazelli de Oliveira, Claudia Regina Gordijo and Denise de Oliveira Silva

H555 - Ethanol detection with Langmuir-Blodgett films containing alcohol dehydrogenase immobilized in phospholipid matrices

Angelo Cesar Perinotto, Luciano Caseli, Valtencir Zucolotto, Tapani Viitala and Osvaldo Novais de Oliveira Júnior

H559 - Characterization of thermal and water vapor barrier properties in HPMC edible films content chitosan nanoparticles

Márcia Regina de Moura, Roberto J Avena-Bustillos, Tara H McHugh, John M Krochta and Luiz Henrique Capparelli Mattos

H560 - Degradation of methylene blue by photocatalysis using ferrites encapsulated with titanium dioxide

Carlúcio Antônio Mendes Lacerda, Débora Reis Ribeiro, Sérgio Francisco Aquino and Cauê Ribeiro de Oliveira

H561 - Evaluation of agroindustrial residues as substrates for cellulolytic enzymes production under solid state fermentation

Ursula Fabiola Rodríguez-Zúñiga, Cristiane Sanchez Farinas, Viviane Lemo, Victor Bertucci Neto and Sônia Couri

H562 - Determination of suitable concentration of chitosan for coating nanocapsules containing benzophenone-3

Nataly Machado Siqueira, Adriana Raffin Pohlmann and Silvia Stanisquaski Guterres

H563 - Photocatalyst with magnetic properties applied in the degradation of pesticides

Henrique Aparecido de Jesus Loures Mourão, Cezar carvalho de Arruda and Cauê Ribeiro de Oliveira

H564 - Photocatalysis with semiconductors: a comparative discussion of the photodegradation mechanisms of rhodamine and atrazine

Henrique Aparecido de Jesus Loures Mourão and Cauê Ribeiro de Oliveira

H565 - Development of TiO₂ thin films prepared by the polymeric precursor method applied to photocatalytic degradation of rhodamine B

Andréa Renata Malagutti, André Gustavo de Vin Faria, José Roberto Garbin and Cauê Ribeiro de Oliveira

H567 - Heterogeneous catalyst for biodiesel production obtained by mechanical syntheses

Nivaldo Eloi de Souza, Ivair Aparecido Santos, Luiz Fernando Cótica and Antônio Laverde Júnior

H568 - Dynamics of polyampholyte adsorption on cellulose nanofilms

Deusanilde Jesus Silva, Orlando Jose Rojas, Martin Hubbe and Song Won Park

H569 - Nanosilica from Rice Husks: extraction and characterization

Vitor Brait Carmona, Rodrigo Martins Oliveira, Wilson Tadeu Lopes Silva and José Manoel Marconcini

H570 - Cellulose nanofibers from corn husks: extraction and characterization

Ronaldo Franco de Oliveira Cardoso, Eliangela Moraes Teixeira, Maria Cristina Dias Paes, José Manoel Marconcini and Luiz Henrique Capparelli Mattos

H572 - Estimation of molecular weight and polydispersity in conducting polymers using single-molecule force spectroscopy

Fabio Lima Leite, Alexandra Manzoli, William Ferreira Alves, Paulo Sergio Herrmann, Luiz Henrique Capparelli Mattoso and Osvaldo Novais de Oliveira Júnior

H573 - Development of equipment for destruction of pesticide waste in water using nano structured photocatalysts

José Roberto Garbin, Andréa Renata Malagutti and Cauê Ribeiro de Oliveira

H574 - Preparation of poly(vinyl alcohol)/titanium dioxide nanocomposite produced by electrospinning

Rodrigo Guerreiro Fontoura Costa, Cauê Ribeiro de Oliveira and Luiz Henrique Capparelli Mattoso

H575 - Morphologic study of poly(vinyl alcohol) nanocomposites containing silver particles via electrospinning

Rodrigo Guerreiro Fontoura Costa, Cauê Ribeiro de Oliveira and Luiz Henrique Capparelli Mattoso

H576 - Thermoplastic starch/ polyethylene blends reinforced with cellulose fibrils from castor bean cake

Jorge Beníldo Reis Júnior, Cristina Tristão Andrade, Luis Claudio Mendes, Carlos Wanderlei Piler Carvalho and Marisa Cristina Rocha

H578 - Influence of the coagulation type on the properties of

Patrini Danielle Galiani, Rogério Manoel Biagi Moreno, José Antonio Malmonge and Luiz Henrique Capparelli Mattoso

H579 - Photoacoustic spectroscopy application in infected and noninfected açaí seeds (*Euterpe oleracea*)

Anselmo Fortunato Ruiz Rodriguez, Aderbal Carlos de Oliveira, Denise V Resende and Antonio Cleves Nunes oLIVEIRA

WEDNESDAY, OCTOBER 01 - POSTER HALL

16:30 - 18:30

H580 - Optimization of the properties of TiO₂ nanoparticles prepared by Precursor Polymeric Route for photocatalytical applications

Adriane Viana Rosario, Mariana Souza Sikora and Ernesto Chaves Pereira

H581 - Nanocapsule@inorganic-organic microparticles: an in vitro drug release study

Cristina de Garcia Venturini, Manoel Ortiz, Letícia Marques Colomé, Sílvia Stanisquaski Guterres and Adriana Raffin Pohlmann

H582 - Evaluation of the surface roughness of the microhybrid composite resins and nanocomposites in different procedures of polishing

Lúcia Trazzi Prieto, Maria Malerba Colombi Humel, Cíntia Pimenta Araújo, Luís Sartini Paulillo and Carlos Tadeu Dias

H586 - Study and characterization of multilayer biocompatible polyelectrolyte films using phospholipid liposomes

Mariselma Ferreira, Christiane Pinto Davi, Luiz Fernando M Dias Galdino, Marli Leite de Moraes, Osvaldo Novais de Oliveira Júnior, Marystela Ferreira and Maria Raposo

H589 - Naturally colored cotton cellulose nanofibers: Preparation and characterization

Eliangela de Moraes Teixeira, Ana Carolina Corrêa, Alexandra Manzoli, Fábio de Lima Leite, Cauê Ribeiro de Oliveira and Luiz Henrique Capparelli Mattoso

H590 - Avaliação da microdureza superficial de resinas compostas nanoparticuladas

Maria Malerba Colombi Humel, Cíntia Pimenta Araújo, Lucia Trazzi Prieto, Carlos Tadeu Dias and Luis Alexandre Maffei Sartini Paulillo

H592 - Preparation of copper hexacyanoferrate films on gold electrode modified with 3-mercaptopropyl-trimethoxy-silane: Application as sensor for hydrazine

Alzira Serpa Luchó, Andréia de Moraes, Fábio Luiz Pissetti and Yoshitaka Gushikem

H593 - Surface analysis of commercial extra-oral implants

Angela Maria Pizzo, Walter Miyakawa, Choyu Otani, Cíntia Saraceni, Joana Ozi and Luciano Dib

H594 - Energy assessment of hydrothermally carbonized lignocellulosic materials

Marcela Guiotoku, Carlos Renato Rambo, Washington Luiz Esteves Magalhães and Dachamir Hotza

H595 - Mechanical properties of corn gluten meal / polyvinil alcohol blends plasticized with glycerol

Elisangela Corradini, José Augusto Agnelli and Luiz Henrique Capparelli Mattoso

H597 - Gels formed by galactomannans and alginate blends

Francine Valenga, Neoli Lucyszyn and Maria Rita Sierakowski

H599 - Heterogeneous acid catalysts for the production of methyl and ethyl esters from vegetable oils

Letícia Ledo Marciniuk, Camila Martins Garcia, Roberto Bineli Muterle and Ulf Schuchardt

H600 - Food preservative micronization and its application in acid beverages

Katia Yuri Fausta Kawase, Gerson Luiz Vieira Coelho and Rosa Helena Luchese

H602 - Study on dendritic extended gate field effect transistor

Nilton Cristi Silva Vieira and Francisco Eduardo Gontijo Guimarães

H603 - Development of active surfaces and silica nanoparticles for indirect enzyme immunoassay for anaplasmosis diagnosis

Marlene de Barros Coelho, Flávio Ribeiro de Araújo, José Renato Jurkevitz Delben, Sandro Márcio Lima, Angela Tardivo Delben, Luiz Henrique da Cunha Andrade and Stênio Perdigão Fragoso

H604 - Preparation of ciprofloxacin hydrochloride-loaded chitosan/PVA blends film for drug delivery applications

Herman S Mansur, Ezequiel S Costa-Jr and Edel F Barbosa-Stancioli

H605 - Kinetics of adsorption of water soluble polyaniline nanofibers in nanostructured thin films

Edson Giuliani Ramos Fernandes, Gabriela Monis Bidin Perroni, Marco Aparecido de Brito, Alvaro Antonio Alencar de Queiroz, Luiz Henrique Capparelli Mattoso and Valtencir Zucolotto

H606 - Utilization of silver nanoparticles as chemisensors

José Elisandro de Andrade and Frederico Guilherme de Carvalho Cunha

H607 - The potential use of bee pollen as an edible film forming

Mateus Santos Melo, Carles Angela Campos Macieira, Juliana Cordeiro Cardoso, Newton Lindolfo Pereira and Francine Ferreira Padilha

H608 - Synthesis and characterization of Y2O3 quantum dots

Maria Andrade Gomes, Zélia Soares Macedo and Mário Ernesto Giroldo Valerio

H609 - Effect of wettability in cell behavior on vertically aligned MWCNT films

Anderson Oliveira Lobo, Marcos Finzi Corat, Rovilson Gilioli, Luis Correa Passos, Erica Freire Antunes, Cristina Pacheco-Soares and Evaldo José Corat

H610 - Super-hydrophilic vertically aligned multi-walled carbon nanotubes films exhibit strong antibacterial activity

Mariana Silva Palma, Anderson Oliveira Lobo, Fernanda Roberta Marciano, Erica Freire Antunes, Newton Soares da Silva, Vladimir Jesus Trava-Aroldi and Evaldo José Corat

H611 - Corn Husks Mechanical Characterization

Gustavo Miranda Guimarães, Maria Cristina Dias Paes, Flávia França Teixeira and José Manoel Marconcini

H612 - Correlation between nuclear magnetic resonance and infrared spectroscopy to determinate physical parameters of biodiesel obtained through heterogeneous catalyses

Nivaldo Eloi de Souza, Ivair Aparecido Santos, Luiz Fernando Cótica and Antônio Laverde Júnior

H614 - Preparation and characterization of poly(D,L-lactic acid)/poly(vinylpyrrolidone) blends

Everton Luiz Paula, Valdir Mano and Maria Elisa Scarpelli Ribeiro Silva

H615 - Characterization of edible films obtained from starch and *Hancornia speciosa* Gomes fruits (mangaba)

*Mateus Santos Melo, Juliana Cordeiro Cardoso, Malo-
ne Santos Pinheiro and Francine Ferreira Padilha*

H616 - Comparision of mechanical and barrier properties of starch and alginate films

*Juliana Cordeiro Cardoso, Lisandra Naiara Rigo, Alex-
andre José Cichoski and Francine Ferreira Padilha*

H618 - Electrospun conducting nanofibers of polyaniline/poly(lactic acid)

*Paulo Henrique de Souza Picciani, Eliton Souto de
Medeiros, Zhongli Pan, William Orts, Luiz Henrique
Capparelli Mattoso and Bluma Guenther Soares*

H619 - NiCo2O4-based catalysts synthesized by the Sol-Gel method to promote the transesterification of soybean oil

Thais Neder Batista and Hugo Barbosa Suffredini

H621 - Toxicity of carbon nanotubes on bovine embryo development

*Humberto de Mello Brandão, Raquel Varella Sera-
pião, Bruno Campos de Carvalho, Juliana Polisseni,
Luiz Sérgio Almeida Camargo, Wanderley Ferreira
de Sá and Luiz Orlando Ladeira*

**Symposium I
VI Brazilian Symposium on Electroceramics**

Monday, September 29 - Poster Hall

16:30 - 18:30

I501 - Operation of planar solid oxide fuel cells with barium zirconate protonic conductors under methane

Olavo Rodrigues Oliveira and Reginaldo Muccillo

I502 - Densification and electrical conductivity of a lanthanum chromite-based ceramic

*Cristiane Abrantes da Silva and José Geraldo de
Melo Furtado*

I503 - Leakage current degradation in varistor ceramics

*José Geraldo de Melo Furtado, Alexander Polasek,
Rodrigo Dias and Adir Moysés Luiz*

I504 - X-ray diffraction analysis of Fe-doped Sr-Ca titanates

*José Fernando Queiruga Rey, João Roberto do Car-
mo and Reginaldo Muccillo*

I506 - A new glass sealant for intermediate temperature solid oxide fuel cells

*Jose Roberto Martinelli, Ademilson Rogério, Fábio
Coral Fonseca, Eliana Navarro dos Santos Muccillo,
Daniel Zanetti de Florio, Olavo Rodrigues Oliveira
and Reginaldo Muccillo*

I508 - Thermal analysis and thermistor behavior of manganese oxide-nickel oxide-cobalt oxide ceramic materials

José Mario Ferreira, Yone Vidotto França, Eliana Navarro dos Santos Muccillo, Jivaldo do Rosario Matos and Reginaldo Muccillo

I509 - Development of zirconia-magnesia/zirconia-yttria composite solid electrolytes

Érica Caproni and Reginaldo Muccillo

I510 - Effect on rare addition on microstructural, structural and magnetic properties of the BiFeO₃ multiferroic magnetoelectric compound

ivair aparecido santos, sidney dorta de oliveira and valdirlei fernandes freitas

I511 - Investigation of solid solution formation in gadolinia- and samaria-doped ceria by electrochemical impedance spectroscopy measurements

Eliana Navarro dos Santos Muccillo, Shirley Leite dos Reis and Eduardo Caetano Camilo de Souza

I512 - Electrical conductivity and sintering of Mn-containing CeO₂

Eliana Navarro dos Santos Muccillo, Emilene Laurentino Santos and Reginaldo Muccillo

I513 - Sintering and electrical conductivity of NiO/8YSZ ceramics

Rafael Morgado Batista and Eliana Navarro dos Santos Muccillo

I514 - Redox stability and aging effects of the ceramic anode La_{1-x}Sr_xMn_{0.5}Cr_{0.5}O₃

Fabio Coral Fonseca, Eliana Navarro dos Santos Muccillo, Reginaldo Muccillo and Daniel Zanetti de Florio

I516 - Impedance spectroscopy analysis during and after sintering zirconia:10 mol% scandia solid electrolytes

Gustavo Carneiro Cardoso Costa and Reginaldo Muccillo

I517 - Recovery in 1st and 2nd Generation of High Temperature Superconductor Tapes

Jerika Suely Lamas, Carlos Alberto Baldan, Carlos Yuijiro Shigue and Ernesto Ruppert Filho

I518 - Thermal, ferroelectric and ferromagnetic characterization of BiFeO₃ – PbTiO₃ compounds

Valdirlei Fernandes Freitas and Ivair Aparecido Santos

I521 - Effect of Multiwall Carbon Nanotubes in Solid Oxide Fuel Cell Anodes

Juliana Sanchez Morine and Daniel Zanetti de Florio

I522 - LSM and LSCF cathodes for solid oxide fuel cell

Mariana Maia Chams Eddine, José Fernando Queiruga Rey and Daniel Zanetti de Florio

I523 - Saturation magnetization measurements as a helpful tool for preparing LSM-YSZ homogeneous powders

Rosana Zacarias Domingues, Gladson Oliveira Francisco, Marcia Caldeira Brant and Túlio Matencio

I524 - Synthesis of dense BiFeO₃ - PbTiO₃ ceramic bodies

Roberto Rossato, Valdirlei Fernandes Freitas and Ivair Aparecido Santos

I525 - Influence of Er+3 on the morphology, structure and electrical properties of Bi_{3.25}La_{0.75}Ti₃O₁₂ ceramics

Valdeci Bosco dos Santos, Jean Claude M'Peko, Valmor Roberto Mastelaro and Antonio Carlos Hernandes

I526 - Ionized oxygen vacancy related electrical conductivity in (Pb_{1-x}Lax)(Zr_{0.90}Ti_{0.10})_{1-x}4O₃ ceramics

Aimé Peláiz Barranco, René López Noda, José de los Santos Guerra and Eudes Borges Araújo

I527 - Giant dielectric permittivity at room temperature in K₂FeNb₄O₁₅-delta ceramic with tetragonal tungsten bronze structure

Silvana Lanfredi, Robson Lopes Grosso, Diego Henrique Moreli Gênova and Marcos Augusto de Lima Nobre

I528 - Structural refinement in the sol-gel processed magnetoelectric materials

alan bartoski and luiz fernando cótica

I529 - Structural and microstructural properties of BiFeO₃ thin films

Eleomar Lena, Paulo Vitor Sochodolak, Ricardo Yoshimitsu Miyahara, Luiz Fernando Cótica, Valdirlei Fernandes Freitas and Ivair Aparecido Santos

I530 - Characterization of chemical synthesized nanocrystalline WO₃/TiO₂ powders for humidity sensing

Sonia Maria Zanetti and Ingrid Távora Weber

I531 - Analysis of voltage barrier in ZnO-Bi₂O₃-doped varistors

Simoni Maria Gheno, Vinícius Rodrigues Suzukayama and Pedro Iris Paulin Filho

I567 - Microstructural investigation in BiFeO₃ - Pb-TiO₃ ceramic bodies processed by reactive sintering

Valdirlei Fernandes Freitas and Ivair Aparecido Santos

TUESDAY, SEPTEMBER 30 - POSTER HALL

16:30 - 18:30

I532 - Local properties of grain boundaries in ZnO-CuO-based varistors

Simoni Maria Gheno, Ruth Herta Goldschmidt Aliaga Kiminami, Márcio Raymundo Morelli and Jusmar Valentim Bellini

I534 - Chemical synthesis assisted by ultrasound of ZrO₂ nanoparticles

Renata Ayres Rocha, Eliana Navarro dos Santos Muccillo, Elisabeth Djurado and Reginaldo Muccillo

I535 - Dielectric, structural and microstructural investigations in BF-BT magnetoelectric ceramics produced by high-energy ball milling

Ricardo Augusto Mascarello Gotardo and Ivair Aparecido Santos

I536 - Effect of the functional LSM/YSZ composite layer in SOFC performance

Filipe Oliveira Pires, Thales Ladeira Fonseca, Marcia Caldeira Brant, Rosana Zacarias Domingues, Charles Luís Silva and Túlio Matencio

I538 - Synthesis and characterization of La and Y-doped strontium titanate perovskite

Charles Luís Silva, Márcia Caldeira Brant, Rosana Zacarias Domingues and Túlio Matencio

I539 - Electrical characterization of Sr and Ca-doped LaAlO₃

Lúcia Adriana Villas-Bôas and Dulcina Pinatti Ferreira de Souza

I541 - Analysis of coupling between strain and order parameter in phase transition in PZT and PLZT ferroelectric ceramics by mechanical spectroscopy

Paulo Sérgio da Silva Junior, Odila Florêncio, Eriton Rodrigo Botero, José Antonio Eiras and Dúcinei Garcia

I542 - Characterization of the NiO/YSZ anode suspensions for using in SOFC

Cintia Gonçalves Fonseca, Marcia Caldeira Brant, Túlio Matencio and Rosana Zacarias Domingues

I543 - Rheological property and microstructural characterization of tape-cast ceramic anodes for SOFC

Hosane Aparecida Taroco, Mariana Silva Brito, Rosângela Maria Ferreira, Márcia Caldeira Brant, Túlio Matencio and Rosana Zacarias Domingues

I544 - Preparation and characterization of gadolinium doped barium cerate perovskite

Marcos Antonio Coelho Berton, Carlos Mario Garcia, Cristiane Gusso, Rodrigo José Santos, Jeferson Matos Hrenchen, Eliana Navarro dos Santos Muccillo and Reginaldo Muccillo

I545 - The effect of La co-doped ceria based solid electrolyte on its electrical properties

Marcos Antonio Coelho Berton, Jéssica da Rosa Silva and Carlos Mario Garcia

I546 - Structural and microstructural characterization of sol-gel processed BiFeO₃ Ceramics

Paulo Vitor Sochodolak, Marcia Ferreira Bini, Ricardo Yoshimitsu Miyahara, Luiz Fernando Cótica, Valdirlei Fernandes Freitas and Ivair Aparecido Santos

I548 - Synthesis, structural and microstructural investigations in FeAlO₃ magnetoelectric compound

Paulo Vitor Sochodolak, Marcia Ferreira Bini, Ricardo Yoshimitsu Miyahara, Luiz Fernando Cótica, Valdirlei Fernandes Freitas and Ivair Aparecido Santos

I549 - Anomalous current-voltage behavior in CaCu₃Ti₄O₁₂ ceramics sintered by microwave process

Marco Aurélio Liutheviciene Cordeiro, Flávio Leandro de Souza, Alexandre José de Castro Lanfredi and Edson Roberto Leite

I550 - Barrier height and depletion layer measurements using the impedance spectroscopy technique in tin oxide thick films

Miguel Adolfo Ponce

I551 - A.C. electrical behaviour of TiO₂ thin film gas sensors

Miguel Adolfo Ponce

I554 - Electrical conductivity versus microstructure of Gd_xCe_{1-x}O_{3-δ}, 0 ≤ x ≤ 30

Guilherme Baltar Crochemore and Dulcina Pinatti Ferreira de Souza

I555 - Correlation between powder ageing and electrical conductivity of Y+3-doped BaCeO₃

Camila Martins Hosken and Dulcina Pinatti Ferreira de Souza

I557 - Characterization of phase transitions in ferroelectrics Pb_{1-x}R_xZr_{0,40}Ti_{0,60}O₃ (R = La, Ba) materials analysed by X-ray diffraction and impedance spectroscopy

Alexandre Mesquita and Valmor Roberto Mastelaro

I558 - High dielectric constant in the perovskite BaY_{0.5}Ta_{0.5}O₃ compound doped with Cu²⁺

Mirela Moreira, Ausdinir Danilo Bortolozo, Sandro Galisteu Luiz, Carlos Yujiro Shigue, Carlos Alberto Moreira dos Santos and Antonio Jefferson da Silva Machado

I559 - Preparation of YSZ films by Electrophoretic Deposition

Douglas Teixeira de Almeida, Maximiliano Luis Mumford and Daniel Zanetti de Florio

I562 - Ceria-based ceramics: microstructure and electrical conductivity

Dulcina Pinatti Ferreira de Souza, Fábio Coutinho Antunes, Glauber Silva Godoi, Guilherme Baltar Crochemore and Ariane Santos Melo

I563 - Preparation and electrical properties of composite cathodes for SOFC applications

Glauber Silva Godoi and Dulcina Pinatti Ferreira de Souza

I564 - Influence of the sintering time and correlation between non-ohmic properties and relaxation processes in CaCu₃Ti₄O₁₂-based polycrystalline

Willian Campos Ribeiro, Paulo Roberto Bueno, Elson Longo and José Arana Varela

I568 - Composite Nafion-TiO₂ membranes for direct ethanol fuel cell operating at high temperature

Roberta Alvarenga Isidoro, Mauro Andre Dresch, Bruno Ribeiro de Matos, Clayton Pereira da Silva, Elisabete Inacio Santiago, Enrico Traversa and Fabio Coral Fonseca

WEDNESDAY, OCTOBER 01 - POSTER HALL
16:30 - 18:30
I569 - Measurements of Leakage Rates of Commercial Sealants for SOFC

Samuel Tadeu de Paula Andrade, Tulio Matencio, Rosana Zacarias Domingues and Marcia Caldeira Brant

I573 - Influence of the procedure for dopant addition on the electrical conductivity of the Yttria doped CeO₂ - ZrO₂ solid solution

Fábio Coutinho Antunes and Dulcina Pinatti Ferreira de Souza

I574 - LaCrO₃ and La0.8Ca0.2CrO₃ films deposited on substrates of ferritic stainless steel type 444

Herval Ramos Paes Jr., Alzimar Fernandes Gomes and Wilson Acchar

I575 - Gadolinia doped ceria-based films deposited by spray-pyrolysis

Herval Ramos Paes Jr. and Josemar de Souza

I576 - Analysis of nonohmic and dielectric properties of CaCu₃Ti₄O₁₂-based polycrystalline ceramic systems

Aline Fátima Tonatto, Miguel Angel Ramirez, Willian Campos Ribeiro, Paulo Roberto Bueno and José Arana Varela

I577 - Synthesis and characterization of pure and niobium doped BIT thick films by tape casting method

Ederson Carlos Aguiar, Alexandre Zirpoli Simões, Elson Longo and José Arana Varela

I578 - Mechanosynthesis of nanostructured BiFeO₃ multiferroic compound

Gustavo Sanguino Dias, Valdirlei Fernandes Freitas and Ivair Aparecido Santos

I580 - Nd modified multiferroic BiFeO₃ thin film prepared through polymeric precursor method

Daniela Russo Leite, Alexandre Zirpoli Simões, Elson Longo and José Arana Varela

I581 - Electric properties on rare earth doped PLZT (9/65/35) ceramics prepared at different sintering conditions

Roman Alvarez Roca, Eriton Rodrigo Botero, Fidel Guerrero Zayas, Ducinei Garcia and Jose Antonio Eiras

I582 - Preparation and characterization of NiO/YSZ thick films

Márcia Caldeira Brant, Wilson Acchar, Rosangela Maria Ferreira Basaglia, Tulio Matencio and Rosana Zacarias Domingues

I583 - Local ferroelectric and piezoelectric properties by piezoresponse force microscopy in bulk and nanostructure of PbTiO₃ modified ceramics

Wagner Benício Bastos, Davi das Chagas Neves, Christian Kazuo Kusaka, Ducinei Garcia and José Antonio Eiras

I584 - Study of phase segregation in Hg_{1-x}Re_x-1223 superconducting compound using anomalous x-ray scattering

Luis Gallego Martinez, Rodrigo Putvinskis, Jesualdo Luiz Rossi, Marcos Tadeu D'azeredo Orlando, Hamilton Perez Soares Corrêa and Carlos Augusto Cardoso Passos

I585 - Detection of potential barriers in CaCu₃Ti₄O₁₂ polycrystalline devices by Electrostatic Force Microscopy

Ronald Tararam, Willian Campos Ribeiro, Miguel Angel Ramirez, Paulo Roberto Bueno, Elson Longo and José Arana Varela

I589 - SrSnO₃ obtained by solid state Reaction

Maria Rita Cássia Santos, Eduardo Antonelli and Antonio Carlos Hernandes

I590 - Piezoelectric, magnetostrictive and magnetoelectric coefficients of the PMN-PT/NFO composites materials

Fabio Luis Zabotto, Michel Venet, Alexandre José Gualdi, Adilson Jesus Aparecido de Oliveira, José Antonio Eiras and Ducinei Garcia

I591 - Processing of Bi_{1.5}ZnNb_{1.5}O₇ ceramics for LTCC applications

Sandra Andréia da Silva and Sonia Maria Zanetti

I593 - Mg₂SnO₄ Single-Phase by polymeric precursor method

Maria Rita Cássia Santos, Glenda Maris Mesquita, Lydianne Christine de Oliveira Miranda, Jackson Guedes Lima, Ieda Maria Garcia Santos, Antonio Gouveia de Souza and Elson Longo

I599 - Synthesis and characterization of lead magnesium niobate (PMN) of ultrathin film

Anderson André Felix, Eudes Borges Araújo and José De Los Santos Guerra

I600 - Characterization of the ionic and electronic conductivities in PbTiO₃ based Ceramics

Robert Luis Gonzalez Romero, Enrique Perez Delfin, Fidel Guerrero Zayas, Ducinei Garcia and Jose Antonio Eiras

I601 - Properties of PMN-35PT thin films prepared by chemical polymeric precursors

Daniela Cristina Manfroi Rodrigues, Anderson André Felix, Jose de los Santos Guerra and Eudes Borges Araújo

I602 - Ferroelectric relaxor behavior characterization of Mn-doped PLZT (9/65/35)

Enrique Perez Delfin, Robert Luis Gonzalez Romero, Barbara Fraygola, Fidel Guerrero Zayas, Ducinei Garcia and Jose Antonio Eiras

I603 - Influence of the sintering conditions on physical properties of K₂Nb₅O₁₅ ceramic doped with CuO by Raman Spectroscopy

Delia do Carmo Vieira do Carmo Vieira, Vera Lucia Otero Brito, Antonio Carlos da Cunha Migliano and Igor Kitagawa

I605 - Electrical study of cathodic activation and relaxation of La_{0.80}Sr_{0.20}MnO₃

Rose Marie Belardi, Jonathan Deseure, Marcia Caldeira Brant, Túlio Matencio and Rosana Zacarias Domingues

I606 - Electrosynthesis of oxide based films in a room temperature ionic liquid

Virginie Lair, Juliette Sirieix-Plenet, cecile Rizzi, laurent Gaillon, philippe Vermaut and Armelle Ringuedé

I607 - 0.90PZN-0.10PT powders through of mechanical activation synthesis

Claudia Fernanda Raigoza, Ducinei Garcia, Jose Antônio Eiras and Ruth Herta Goldschmidt Aliaga Kiminami

I608 - Corrosion in pipelines and equipments of cooling system in an hydroelectric power station

Carlos Mario Garcia, José Raimundo Pereira, Marcos Antonio Coelho Berton, Stanley Endrigo Bilatto Rodrigues, Paulo Roberto Dantas Marangoni, Diogo Robl and Ida Chapaval Pimentel

I609 - Theoretical proposal for nanoporosity production at material surfaces. The case of an old technological process as an example

Carlos Mario Garcia, Raquel Bras Vichessi, Gilberto Augusto de Oliveira Brito, Carlos Ventura D'Alkaine and Patrício Rodolfo Impinnisi

SYMPOSIUM J**Applications of lasers in materials processing****MONDAY, SEPTEMBER 29 - POSTER HALL****16:30 - 18:30****J503 - Localized cure of thermosensitive material by infrared laser stereolithography for microfabrication**

André Luiz Jardini, Maria Ingrid Barbosa, Maria Carolina Costa and Rubens Maciel Filho

J505 - Hydrolytic polymerization of Nylon 6 in a batch reactor: application in rapid manufacturing using selective laser sintering

Maria Carolina Costa, Maria Ingrid Barbosa, André Luis Jardini, Luis Puigjaner and Rubens Maciel Filho

J506 - Biocompatible microstructures fabricated by two-photon absorption polymerization

Daniel Souza Corrêa, Prakriti Tayalia, Gatien Cosendey, David Sotero Dos Santos, Ricardo Aroca, Eric Mazur and Cleber Renato Mendonça

J508 - Laser surface treatment of a CVC shaft using a high-power fiber laser

Flavia Aline Goia, Milton Sérgio Fernandes de Lima, Rudimar Riva and Ana Maria do Espírito Santo

J511 - Laser microdrilling of an Al-Zn alloy

Milton Sérgio Fernandes de Lima, Claudio Katsumi Azuma and Wagner de Rossi

J513 - Characterization of the nanoparticles produced by laser ablation of solid titanium in ethanol

Keila Beatriz Garcia Leite, José Guilherme A B Simões, Jaime T Watanuki, Rudimar Riva and Milton Sérgio Fernandes de Lima

J514 - On-line optical monitoring of the crystallization of nanocomposites during injection molding

Marcia Maria Favaro, Fernando Moretti, Marcia Cristina Branciforti and Rosario Elida Suman Bretas

J515 - Microstructuring of drilling tools using lasers

Fabricio Prieto Ladario, Davi Neves and Milton Sérgio Fernandes de Lima

J516 - The influence of laser texturing on the microstructure of galvanized steel sheets

Fabio Y Sakata, Ana Maria E Santo, Walter Miyakawa, Rudimar Riva and Milton Sérgio Fernandes de Lima

J517 - Workstation for femtosecond laser machining**J518 - Gas shielding analysis in Ti6Al4V pulsed laser beam welding**

Wagner de Rossi, Douglas Ramos da Silva, José Roberto Berretta, Milton Sérgio Fernandes de Lima and Maurício David Nevel

J522 - Influence of alkali metal ion on the photoinduced birefringence in films of PMMA containing 16-naphthalene benzoazocrown ether molecules

Flávio Makoto Shimizu, Jan Franciszek Biernat and José Alberto Giacometti

J525 - Laser texturing as an alternative to grit blasting in cemented carbide coating process

José Manuel Arroyo Osorio, Milton Sérgio Fernandes de Lima and Anselmo Eduardo Diniz

J526 - Effect of the powder divergence angle on the laser material processing in coaxial geometry

Omar Oliveira Diniz Neto, Augusto Miguel Alcalde and Rui Vilar

J527 - Correlation of physical-chemistry characteristics of irradiated titanium surface with Nd:YVO₄ pulsed laser parameters

Francisco José Correa Braga

J529 - Temperature dependence of photoinduced birefringence in the guest-host system of PMMA doped with azobenzene-containing crown ethers

Andréia Barreto Brito, Flávio Makoto Shimizu, Jan Franciszek Biernat and José Alberto Giacometti

TUESDAY, SEPTEMBER 30 - POSTER HALL

16:30 - 18:30

J532 - M₂ beam quality factor measurement of a single laser pulse

Kelly Cristina Jorge, Rudimar Riva, Nicolau André Silveira Rodrigues, Walter Miyakawa and Marcelo Geraldo Destro

J533 - Surface structuring of steel components using a multimode pulsed laser beam

José Guilherme Alvarenga Batista Simões, Rudimar Riva, Marcelo Geraldo Destro, Milton Sérgio Fernandes de Lima and Sérgio Stefano Guerreiro

J534 - Roughness standards obtained by laser irradiation of glassy carbon

Rozeli Filomena de Oliveira, Fábio Dondedo Origo and Álvaro José Damão

J535 - Determination of the effective absorption coefficient in dental hard tissues

Gustavo Nicolodelli, Maristela Dutra-Corrêa, José Roberto Rodrigues, Cristina Kurachi and Vanderlei Salvador Bagnato

J536 - Hydration dynamics influence on ultra-short pulsed laser ablation of dental hard tissues

Francisco Martins Rego-Filho, Gustavo Nicolodelli, Maristela Dutra-Corrêa, Maria Tereza Araujo and Vanderlei Salvador Bagnato

J538 - Characteristics of deep penetration CW Nd:YAG Laser welding between stainless and carbon steels

José Roberto Berretta, Maurício David Martins das Neves, Wagner de Rossi and Luiz Mauro Damaceno Cardoso

J541 - Laser surface melting of ASTM F745 stainless steel

Maria Aparecida Larosa, Carmo Roberto Pelliciari Lima and Maria Clara Filippini Ierardi

J542 - Effect of superficial treatment of laser (Nd:YAG) on the creep behavior of the Ti-6Al-4V alloy

Danieli Aparecida Pereira Reis, Javier Onôro, Carlos Moura Neto, Francisco Piorino Neto, Miguel Justino Ribeiro Barboza and Adriano Gonçalves Reis

J543 - Laser scribing of hypersonic wind tunnel diaphragms

Samoel Mirachi, Rudimar Riva, David Romanelli Pinato, Marco Antonio Sala Minucci and Nicolau André Silveira Rodrigues

J544 - Application of non-destructive X-ray fluorescence mapping for quality control on laser beam welded aluminum alloys

Natasha M Piorino, Ana Maria E Santo, Milton Sérgio Fernandes de Lima, Rudimar Riva and Aline Capella de Oliveira

J545 - In-plane thermal diffusivity of dentin by infrared thermography

Thiago Martini Pereira, Walter Miyakawa, Viviane Pereira Goulart and Denise Maria Zezell

J546 - Kinetics of photoinduced birefringence of guest-host films of PMMA doped with poly(azo)urethane

Priscila Aléssio, Flávio Makoto Shimizu, Carlos José Leopoldo Constantino, José Alberto Giacometti and Eduardo René Pérez González

J547 - Birefringence in polarized phosphate glass

Alex Otávio Sanches, Paulo Rodrigues da Costa Júnior, Anderson José Silva Maurity, Claudio Luiz Carvalho and Victor Ciro Solano Reynoso

J548 - Quasicrystalline Phase Formation in Al-base Alloys by Laser Surface Treatment

Claudemiro Bolfarini, Piter Gargarella, Carlos Triveno Rios, Rui Vilar, Walter José Botta and Claudio Shyinti Kiminami

J549 - Laser Welding and TIG Welding of Titanium Alloy in Dental Prostheses Laboratory

Lorena Marcelino Cardoso, José Roberto Berretta, Maurício David Martins das Neves and Wagner de Rossi

SYMPOSIUM K
Microanalysis
(Micromat)

WEDNESDAY, OCTOBER 01 - POSTER HALL

16:30 - 18:30

K501 - Effect of the crystallization rate in the formation of the polymorphic phases on PVDF solution-cast films

Rinaldo Gregório Filho and Daniel Sousa Borges

K502 - Thermophysical properties of PVDF and P(VDF-TrFE) in the temperature range from 20 to 200 °C

Wilson Nunes dos Santos, Rinaldo Gregório Filho and Andrew Wallwork

K503 - Sigma phase precipitation in a duplex and in a super duplex stainless steels during aging at 750 °C

Doris Maribel Escriba, Edeltraud Materna Morris, Ronald Lesley Plaut and Angelo Fernando Padilha

K504 - Investigation of carbon nanotubes analytical models applied to Fowler-Nordheim tunneling phenomenon

Juliano Fujioka Mologni, Marco Antônio Alves, Douglas Freitas Takeuti, Ricardo Silva Braga and Edmundo Silva Braga

K505 - Estudo da evolução da solidificação Unidirecional Horizontal de ligas da série 6000 estabelecendo correlações entre a Taxa de Resfriamento () e o Tamanho de Grão

Thiago Augusto Pacheco Tavares, Oscarina da Silva Passos, João Bosco de Andrade Lobo, Alexandre Luiz Amarante Mesquita and José Maria do Vale Quaresma

K508 - Characterization of organic and mineral compounds deposits in oil wells in Brazil

Karina Araujo Kodel, Patrícia Fernanda Andrade and Divanizia Nascimento Souza

K509 - The influence of milling time on structural parameters and crystallinity of natural hydroxyapatite

Walter Moreira Lima, Wilson Ricardo Weinand, William Junior Nascimento, Antonio Carlos Bento and Mauro Luciano Baesso

K510 - Study of the microstructure formed after different heat treatment profiles applied to a Nb₃Sn wire with nanometric pinning centers

Lucas Barboza Sarno Da Silva, Carlos Alberto Rodrigues, Cristina Bormio-Nunes, Nei Fernandes de Oliveira Jr and Durval Rodrigues Júnior

K511 - X-ray and raman microanalysis of the puttinga meteorite

Ruth Hinrichs, Gabriela Cioatto Rizzon, Isadora Aumond Kuhn and Marcos Antonio Zen Vasconcellos

K512 - Crystallographic aspects of the martensitic transformation of Fe-27%Ni alloy

Cláudia Nazaré dos Santos, Andersan dos Santos Paula and Carlos Sérgio da Costa Viana

K513 - Molecular mapping by low-energy-loss EFTEM imaging

Elisângela Moura Linares, Maria do Carmo Vasconcelos Medeiros da Silva, Cristiane Aparecida Silva e Souza, Carlos Alberto Paula Leite and Fernando Galembeck

K515 - Ultrafast power diode design with simply fabrication process

Armando Gregorio Rojas-Hernández, Jacobus W Swart, Wanderley Marzano, Peter Jurgen Tatch and Alicia Vera Marquina

K516 - Comparison of debris generated by ball milling and tribological sliding of brake PMC pads against cast iron

Marcos Vasconcelos, Ana Paula Lamberti Bertol, Marcio Ronaldo Farias Soares, Marcos Roberto Farias Soares and Ruth Hinrichs

K518 - Deep level transient spectroscopy for ultrafast power diode

Armando Gregorio Rojas-Hernández, Jacobus W Swart, Wanderley Marzano, Peter Jurgen Tatch and Alicia Vera Marquina

K521 - Hydrogem production through partial oxidation of ethanol on ceria-supported nickel catalysts

Carla Woyames Gabriel, Lidia Oazem da Costa, Sonia Ramos Vasconcelos, André Luiz Pinto, Lisiane Veiga Mattos, Luiz Pizarro Borges and Fábio Bellot Noronha

**SYMPOSIUM L
High resolution electron microscopy
(Micromat)****MONDAY, SEPTEMBER 29 - POSTER HALL****16:30 - 18:30****L501 - Characterization of austenitic grains after cross wedge rolling a V-Ti microalloyed steel**

Wiliam Regone, Mário Luiz Numes da Silva and Sérgio Tonini Button

L506 - Manual and automatic microstructure analysis following ASTM norms

Mauricio Fabbri, Felipe da Cruz Dias and Maria do Carmo Andrade Nono

L507 - CdS nanocrystals embedded in ordered mesoporous silica

Ricardo Hidalgo Santim, Aldo Félix Craievich, Hermí Felinto Brito, Gustavo Rocha de Castro and Marco Antonio Utrera Martines

L508 - Formation and thermal evolution of electrolytic vanadium oxide nanofibers studied by FESEM and TEM

Douglas Langie da Silva and Andre Avelino Pasa

L509 - Structural analysis of the influence of different solvents in hematite thin films produced by spin-coating deposition solution: High-resolution scanning electron microscopy study

Bruno Henrique Ramos de Lima, Flávio Leandro Souza, Edson Roberto Leite and Elson Longo

L510 - Synthesis and characterization of nanostructured V₂O₅nH₂O prepared throughout the hydrothermal method

Waldir Avansi Junior, Cauê Ribeiro de Oliveira, Edson Roberto Leite and Valmor Roberto Mastelaro

L511 - Microstructural evaluation of rapidly solidified Ti-Si-B alloys via High resolution TEM

Katia Cristiane Gandolpho Candioto, Carlos Angelo Nunes and Gilberto Carvalho Coelho

L513 - Nanocrystalline diamond formation in porous silicon obtained by Chemical Vapor Deposition/Infiltration (CVD/CVI) process

Cláudia Renata Borges Miranda, Maurício Ribeiro Baldan, Antonio Fernando Beloto and Neidenei Gomes Ferreira

TUESDAY, SEPTEMBER 30 - POSTER HALL

16:30 - 18:30

L514 - Immobilization of glucose oxidase on porous TiO₂ films for an enhanced bioelectrocatalytic activity

Wendel Andrade Alves, André Sarto Polo and Camila Pinheiro Souza

L515 - Interdiffusion zone between resin-based sealer and human root dentin by SEM - FEG

Liz Zanchetta D'Agostino, Soraia de Fátima Carvalho Souza, Carlos Franci, Antonio Carlos Bombana, Mariane Brumatti and Henrique Kahn

L517 - Magnetic and structural characterization of FeNi nanowires produced by electrodeposition on nanoporous template

Alexandre Da Cas Viegas, Erildo Dorico, João Batista Graciosa, Douglas Langie da Silva, Lia Silva de Oliveira and André Avelino Pasa

L520 - Effects of mesoporous substrate and metal catalyst nanoparticles in growth of carbon nanostructures

Maria Claudia Marchi, José Javier Saez Acuña, Carlos Alejandro Figueroa and Fernando Alvarez

L522 - Electron microscopy facility at LNLS

Jefferson Bettini, Conrado Moreira Afonso, Paulo Cesar Silva, Sidnei Ramis Araújo, Daniel Ugarte and Jose Antonio Ramirez

L523 - An Advanced building for electron microscopy at LNLS

Jefferson Bettini

L524 - ZSM-5 zeolite: synthesis and characterization

Maria Isabel Pais da Silva, Sonia Letichevsky and Carla Ramos Moreira

**SYMPORIUM M
Electron microscopy at the industry
(Micromat)**
WEDNESDAY, OCTOBER 01 - POSTER HALL

16:30 - 18:30

M502 - EBSD analysis related to the microstructures in titanium alloy Ti6Al4V – metallic biomaterial

Aparecido Edilson morcelli, Arnaldo Homobono Paes de Andrade, Antonio Augusto Couto, Nelson Batista de Lima and Clarice Terui Kunioshi

M503 - Chemical and morphological analysis of post-consumer polyethylene composites reinforced with sugarcane bagasse-based fibers

Silvia Luciana Fávaro, Alberto Gonçalves Vieira Carvalho-Neto, Ana Claudia Moraes Rosa and Eduardo Radovanovic

M504 - Mechanical and microstructural aspects observed in AlMg base alloy after thermomechanical treatments

Waldemar Alfredo Monteiro, Ricardo Bulcão Ferrari, Sidnei José Buso and Iara Maria Esposito

M508 - Morphological and electrochemical characterization of corrosion process on Fe-CrNi and FeCrMo based dental casting alloys

Dane Tadeu Cestariolli and Luís Antônio da Silva

M511 - Influence of temperature on the morphology of colored interference thin films using AFM technique

Ana Paula Andrade Manfridini, Célia Regina Oliveira Loureiro, Margareth Spangler Andrade and Rosa Maria Rabelo Junqueira

M512 - Environmental scanning electron microscopy (ESEM) - a tool for analysis of calcium carbonate on fiber cement surface

Mariane Brumatti

M515 - An image processing method for evaluation of pitting corrosion

Marinalda Claudete Pereira, Gabriel de Matos e Silva, Eduardo Norberto Codaro and Luis Rogerio de Oliveira Hein

M519 - Analysis of origin of orange peel phenomenon in AISI 439 stainless steel (Fe17%Cr)

Vânia da Silva Vieira, André Luiz Pinto and Elaine Gaspar de Souza

M521 - Mo and Nb addition effect on high temperature ductility of Ni-based weld metal

Conrado Ramos Moreira Afonso, Nathan E Nissley, John C Lippold and Antonio J Ramirez

M524 - Imaging of blends and nanocomposites using focused ion beam (FIB-SEM)

Elisângela Moura Linares, Carlos Alberto Paula Leite and Fernando Galembeck

SYMPORIUM N
Micro and nanometrology
(Micromat)**WEDNESDAY, OCTOBER 01 - POSTER HALL****16:30 - 18:30****N501 - Synthesis and size control of Nb₂O₅.nH₂O nanoparticles by water-in-oil micro-emulsion**

Liana Alvares Rodrigues and Maria Lúcia Caetano Pinto da Silva

N504 - Microchannel integration with an e-tongue system

Cléber Aparecido Rocha Dantas, André Luis de Jesus de Almeida, Maria Helena de Oliveira Piazzetta, Ângelo Luiz Gobbi and Antonio Riul Júnior

N505 - Magnetic properties on micromagnetic objects

Mariana Pojar, Marcelo Shiroma Lancarotte, Antonio Carlos Seabra and Antonio Domingues dos Santos

N506 - Development of an AFM/MFM based on free software GXSM

Gilderlon Fernandes Oliveira, Antonio Domingues dos Santos and Sérgio Antonio Romero

N507 - Development of standard reference materials for powder diffraction

Luis Gallego Martinez, Cláudio José da Rocha, Antônio Sant'ana Galvão, Marcos Tadeu D'Azeredo Orlando, Hamilton Perez Soares Corrêa, Fábio Furlan Ferreira and Carlos de Oliveira Paiva Santos

N508 - Production of hydrogen and carbon black by methane decomposition using a DC Argon thermal plasma

Pericles Inacio Khalaf, Nito Angelo Debacher, Ivan de Souza, Eduardo Pinheiro de Souza and Vanessa Baldissarelli

N509 - Thin polymeric films candidates for fuel adulteration analysis

Sérgio Tonzar Ristori Ozaki and Fernando Josepetti Fonseca

N512 - Structural analysis of nanopowders obtained by citrate precursor method

M. K. Hwang, R. C. Pessoa and R. S. Nasar

N514 - Characterization of Nafion-Based Composite Membranes by In-Situ AFM

Danielle Fernandes Amaro dos Santos, Maximiliano Luis Munford, Bruno Ribeiro de Matos, Mauro Andre Dresch, Roberta Alvarenga Isidoro, Elisabete Inacio Santiago and Fabio Coral Fonseca

N517 - PVK doped with LiClO₄ for conduct trails devices

Taís Garcia Moreira, Wang Shu Hui, Shirley Possidonio and Roberto Koji Onmori

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André L M Oliveira	G861	Antonio Azevedo	G619
André Luis Bonfim Bathista Silva	A504	Antonio Caliri	M502
André Luis de Jesus de Almeida	N504	Antonio Carlos Bento	G867
André Luis Jardini	J505	Antonio Carlos da Cunha Migliano	F580
André Luiz Fassone Canova	G843	Antonio Carlos Dias Angelo	G894
André Luiz Jardini	B502 J503	Antonio Carlos Dias Ângelo	D542 K509
André Luiz Menezes de Oliveira	G806 G807	Antonio Carlos Gomes Rocha	G773
André Luiz Pinto	M519 D617 K521	Antonio Carlos Hernandes	I525 A550 I589
André Luiz Santos Barreto	J539 H571	Antonio Carlos Sant'ana	I505
André Luís Fernandes Cauduro	N511 N513	Antonio Carlos Seabra	G597
André Luís Marin Vargas	C540	Antonio Carlos Silva Costa	D570
André Oliveira Silva	F578	Antonio Celso Antunes	G909
André Paulo Tsichtschin	C624	Antonio Cleves Nunes Oliveira	H579
André Santarosa Ferlauto	G817 G884	Antonio Domingues dos Santos	N506 G639 G864
André Sarto Polo	L514	Antonio Eduardo da Hora Machado	G927
André Zuchetto Maissonave	A585		
Andréa Dias Quintão	G865		
Andréa Machado Costa	L505		
Andréa Renata Malagutti	H565 H573		

Antonio Fernando Beloto	G560 L513	Ariane Santos Melo	I562
	G872 G749 G768	Ariano de Giovanni Rodrigues	G502 G607
Antonio Gouveia de Souza	G787 G788 G789	Ariovaldo de Oliveira Florentino	D530 G815
	G806 G807 G849	Arles Víctor Gil Rebaza	G829 G887
	G850 G852 G870	Arlete Tavares Almeida	B560
	G911 G926 I593	Armando Augusto Henriques Vieira	B536
Antonio Hortencio Munhoz Jr	D567 G700	Armando Dias Tavares	A631
Antonio J Ramirez	L518 M521	Armando Gregorio Rojas hernández	K515 K518
Antonio Jefferson da Silva Machado	I558	Armando Padial	C509
Antonio Jorge Abdalla	C543 G660	Armando Pérez	D576
Antonio Jose Ramirez	N502 L505 L521 L519	Armelle Ringuedé	I560 I606
Antonio José da Costa-filho	A518	Arnaldo Homobono Paes de Andrade	M502
Antonio José Felix Carvalho	H516 A592 G869 H525	Arnaldo Sydney Pallone	C508
Antonio José Oliveira Cabral	D614	Arquímedes Cruz López	A637
Antonio José Ramírez	M523	Artemis Marti Ceschin	A589
Antonio Laverde Jr	H536 H537	Arthur Thompson	A506
Antonio Luz Lisbôa	D518	Arthur Thompson Motta	E514
Antonio Martins Figueiredo Neto	G831	Artur Mariano de Sousa Malafaia	E558
Antonio Medina Neto	I588	Ashok Karunanithi	C584
Antonio Pascoal Del`arco Júnior	D546 G664	Assuero Faria Garcia	H541
Antonio Pedro Novaes Oliveira	D573 D574	Augusto Alexandre de Mattos	G548 L504
Antonio Reinaldo Cestari	A604	Augusto Batagin Neto	G871
Antonio Rezende Neto	G890	Augusto Miguel Alcalde	J526 J528
Antonio Ricardo Zanatta	G556 G574	Aurellis Carvalho Nascimento	D548
Antonio Riul Júnior	H566 C587 N504	Ausdinir Danilo Bortolozo	I558
Antonio Rodolfo Júnior	G544	Avelino Manuel da Silva Dias	C590
Antonio S A	F569	Ayrton Hugo de Andrade e Santos	G501
Antonio Sant'ana Galvão	N507	Ayse Alemdar	G827
Antonio Silva Costa	D528	Álvaro José Damião	J534
Antonio Souza Araujo	A601 A636 G934	Ângela Albuquerque Teixeira Neto	A530
Antonio Tallarico Adorno	F502	Ângela Burlamaqui Klautau	G741
Antônia Maria das Graças Lopes Citó	G761	Ângela Leão Andrade	A581
Antônio Aprígio Curvelo	H531	Ângela Maria Quintão Lana	H510
Antônio Eduardo Martinelli	D513 D608	Ângelo Luiz Gobbi	N504
Antônio Gomes Souza Filho	B509 A563	Barbara Fraygola	I602
Antônio Gouveia Souza	G838 G846 G847 G848 G853 G856 G860 G861	Barbara Regina Bouças Pontes	G619
Antônio José Roque da Silva	G742	Bartira R Bergmann	H583
Antônio José Souza	D544	Basílio Andres Talagañis	D604
Antônio Laverde Júnior	H612 H567	Bárbara Maraston Fraygola	I598
Antônio Ricardo Zanatta	C530	Beatriz Caroline Barra	H512
Antônio Riul Jr	H514	Beatriz Eleutério Goi	G631
Aparecido Augusto de Carvalho	G532	Benício Barros Neto	G813
Aparecido Edilson Morcelli	M502	Bernadette Charleux	B561
		Betina Giehl Zanetti-ramos	F552

Bianca Paffaro	I579	Carla Eiras	H509 F509 F564
Bluma Guenther Soares	B542 A588 B545 B550 B563 B577 B576 H618 H596	Carla Fabiana Cerqueira Machado	F508 D590
Bonifacio Alvarado Tenorio	C516	Carla Maria Salerno Polato	G822
Bor-sen Chiou	G809	Carla Ramos Moreira	L524
Brandon C Williams	E501	Carla Verissimo	G720
Breno Martins dos Santos	G713	Carla Woyames Gabriel	K521
Bruna Donida	H556	Carles Angela Campos Macieira	H607
Bruna Rodrigues Lopes Gonçalves	G584	Carlo Requião da Cunha	A508 G969
Bruno Alessandro Guedes Lima	D580	Carlos Alberto Achete	M516 N510 F576 N515
Bruno Bassi Torres	G590	Carlos Alberto Alves Cairo	F589 E508
Bruno Caleffi	G662	Carlos Alberto Alves Carvalho	G738
Bruno Campos de Carvalho	H621	Carlos Alberto Baldan	I517 B535 B571
Bruno Carlos Alves Pinheiro	D544	Carlos Alberto Busser	E535 E540
Bruno Cesar Teiga	A523	Carlos Alberto Carvalho	G671
Bruno Henrique Ramos de Lima	L509	Carlos Alberto Correa	G827 A620 M518
Bruno Leonardo Caetano	A573	Carlos Alberto de Paula Leite	B519
Bruno Moreira Aguiar	G784	Carlos Alberto Fonzar	G509
Bruno Quirino Araújo	F564 G761	Carlos Alberto Moreira de Melo Neto	G741
Bruno Ribeiro de Matos	I568 N514	Carlos Alberto Moreira dos Santos	I558
Bruno Torquato Ramasco	G797	Carlos Alberto Moreira-filho	A518 A519
Caio Herrara Teixeira	C637	Carlos Alberto Ospina Ramirez	L505
Caio Tavares	M520	Carlos Alberto Paskocimas	D621 D531 B543 G846 G848 G853 D596 D627
Calos Tasayco Sánchez	C616	Carlos Alberto Paula Leite	K513 M524
Cameron B Keenan	E563	Carlos Alberto Rodrigues	G769 K510
Cameron Keenan	E507	Carlos Alberto Soufen	G509
Cameron Munro	D569	Carlos Alberto Tello	H512
Camila Afonso Ferreira Araújo	A627 G937 G942	Carlos Alejandro Figueroa	C569 C601 C611 L520
Camila Braga Dornelas	B548 B555	Carlos Alves Cairo	E515 D519
Camila Marchetti Maroneze	A537	Carlos Angelo Nunes	L511 M520 C615
Camila Maria Lapa	I556	Carlos Antonio Reis Baptista	C543
Camila Martins Garcia	H599	Carlos Augusto Cardoso Passos	I584
Camila Martins Hosken	I555	Carlos Benedicto Ramos Parente	G878
Camila Pinheiro Souza	L514 G672 G854	Carlos Bloch Jr	H544
Camila Roberta Bueno Silva	D504 D506	Carlos Busser	E527 E531
Camila Soares Xavier	G723 G729 G545 G546 G874	Carlos de Oliveira Paiva Santos	G774 N507
Camila U Braz	A505 A510	Carlos Diaz-aguila	H540
Camilla de Medeiros Dantas	C613 D602	Carlos Eduardo Carvalho	A583
Camilla dos Santos Zanatta	G553	Carlos Eduardo Cava	G505
Carina Barros Mello	C512 C514 C575	Carlos Eduardo Maduro Campos	G974
Carina Ulsen	M510	Carlos Eduardo Mady	C526
Carla Castiglia Gonzaga	D565	Carlos Eduardo Viana	C531
Carla Cristina Schmitt	G631	Carlos Eduardo Zanetti	F585
Carla da Silva Meireles	G959		
Carla da Silva Teba	B531		
Carla dos Santos Riccardi	G529 G530		

Carlos Emerson Costa	G684	Caroline Borges Azevedo	A593
Carlos Eugênio Foerster	C577 C578 C579	Cassius Olívio Figueiredo Terra	G531
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Carlos Frederico Graeff	G871 A605 H601	Catia Fredericci	D565
Carlos Gerardo Levi	C552 E538 E513	Caubi Ferreira Souza Júnior	D583
Carlos JI Constantino	H566	Cauê Pintaúde Pascholati	H517 H518
Carlos Joel Franco	G645 G644		H589 H543 G659
	H509 H512 A521		L510 G673 A577
Carlos José Leopoldo Constantino	H514 A522 H515	Cauê Ribeiro de Oliveira	H564 H574 H575
	H531 E536 E537		H560 H573 H511
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Carlos Kwiecniewski	C569	Cássio Stein Moura	G642
Carlos Lenz César	G835	Cecile Rizzi	I606
Carlos Luiz Ferreira	G702 G972	Cecilia Pereira Silva	H601
Carlos Manuel Sanchez Tasayco	C652	Cecilia Staria	G917
Carlos Mario Garcia	I544 I547 I545	Cecília Ogliari Schaefer	G900
	I609 I608	Celly Mieko Shinohara Izumi	A530
	C510 C512 C561	Celso Antonio Silveira	D618
	C562 C577 C578	Celso Aparecido Bertran	A560
Carlos Maurício Lepienski	C579 C589 C594	Celso Dearaujo Duarte	G734
	C597 C607 C608	Celso Luis de Carvalho	G901
	C619 C630	Celso Pinto de Melo	A582 H585
Carlos Maurício Lepiesnki	C612	Celso V Santilli	A501
Carlos Moura Neto	D555 E550 J542	Celso Valentim Santilli	D541 A566 D549
Carlos Neco Júnior	D507	Celso Xavier Cardoso	F532 A594 F570
Carlos Oliveira Paiva Santos	G522	Cesar Aguzzoli	C569
Carlos Pérez Bergmann	H545 A642	Cesar Augusto de Andrade	H585
Carlos Renato Rambo	H594 D594	Cesar Henrique Wanke	C525 C524 C533
Carlos Roberto Corrêa da Costa	D502	Cesar Oropesa Avellaneda	A564 A599
Carlos Roberto Grandini	D579	Cezar Carvalho de Arruda	H563 H543
Carlos Rodrigues Gouvêa	G701 G961	Célia Kimie Matsuda	E529
Carlos Sérgio da Costa Viana	K512	Célia Regina Carubelli	C577
Carlos Tadeu Dias	H590 H582	Célia Regina Oliveira Loureiro	M511 C570
Carlos Tadeu Santos Dias	A600	Célio Wisnieswki	G562
Carlos Tasayco Sánchez	N516	César Ricardo Teixeira Tarley	A547
Carlos Tello	K517	Chandra Ray	D505
Carlos Triveno Rios	J548	Charles Dal Castel	B551
Carlos Ventura D'alkaine	I609	Charles Luís Silva	I536 I538
Carlos Wanderlei Piler Carvalho	B528 B531 H576	Choyu Otani	C575 H593 G612
Carlos Yujiro Shigue	I517 B535 I558	Christian Mariani Santos	G701 G961
Carlson Pereira Souza	B571	Christian Pfleiderer	E511
	D592	Christiana Andrade Pessoa	F537 F587
	G508 G712 G722	Christiane Pinto Davi	H586
Carlton Anthony Taft	G736 G743 G800	Chuong Bui	B561
	G877 G891 G892	Cibele Ereno	H601
	G909 G533	Cicero Rafael Cena da Silva	G886 G825
Carlúcio Antônio Mendes Lacerda	H560	Cinthya Helena Souza	A606
Carmem Muller	B525	Cintia de Fáveri	C582
Carmo Roberto Pelliciari Lima	J541	Cintia Goncalves Fonseca	I542
Carolina Bresne	A505 A510	Cintia Lugnani de Amorim	B522
Carolina Melo de Abreu	D607		
Carolina Resmini Melo	G526		
Caroline Bitencourt Barreto	F541		

Cintia Lugnani de Amorin	C600	Cleiton Domingos Maciel	G514
Cintia Marques Correia	G685	Clelio Thaumaturgo	B505 G930
Cintia Nogueira Ferreira	G811	Cleocir José Dalmaschio	G689
Cintia Pimenta Araújo	H590	Cléber Aparecido Rocha Dantas	N504
Cintia Saraceni	H593	Clécio Gomes dos Santos	H585
Cíntia Amorim	C601	Cliciane Guadalupe de Jesus	F587
Cíntia Pimenta Araújo	H582	Clivia Sotomayor-torres	A613 A615
Cíntia Tereza Pimenta Araújo	A600 A638	Clovis Augusto Ribeiro	G570
Clara Herrera Pulgarin	M501	Conrado Moreira Afonso	L522
Clara Leal Nogueira	A529	Conrado Ramos Moreira Afonso	M521 L521
Clara Muniz Almeida	C507 C581	Cosme Roberto Moreira da Silva	E508 A580 D593
Clarice Terui Kunioshi	C509 M502	Creusa Iara Ferreira	B529
Clarissa Almeida Olivati	G609	Criastiane Wienke Raubach	G858
Clascídia Aparecida Furtado	B521 G873	Crisitiane Abrantes Silva	D503
Claude Gabrielli	G598	Cristian Achim	G559
Claudemiro Bolfarini	G797 J548	Cristian Bernardi	A524 A534
Claudia Akemi Kodaira	G767 G766	Cristian Camilo Viafara	C624
Claudia Berlanga Reyes	E505	Cristiana Perdigão Rezende	G641
Claudia Fernanda Raigoza	I607	Cristiane Abrantes da Silva	I502
Claudia Oliveira Veloso	G822	Cristiane Aparecida Silva e Souza	K513
Claudia Regina Borges Miranda	F589	Cristiane Assumpção Henriques	G822
Claudia Regina Gordijo	H554	Cristiane Gusso	I544 I547
Claudia Wurltizer	G682	Cristiane Pontes de Oliveira	G758 F590
Claudinei dos Santos	D578 D625	Cristiane Primiano Franzin	G816
Claudio Katsumi Azuma	J511	Cristiane Sanchez Farinas	H561
Claudio Luiz Carvalho	G518 G523 G649 G952 G953 A611 J547 G970	Cristiane Vila	G898
Claudio Shyinti Kiminami	J548 G797	Cristiane Wienke Raubach	G798 G804
Claudius Dsilva	H518	Cristiano Binder	C644
Clayton Pereira da Silva	I568	Cristiano Fantini Leite	G913
Cláudia Karina Barbosa de Vasconcelos	G621 G648	Cristiano Giacomelli	A506 C611
Cláudia Nazaré dos Santos	K512	Cristiano Legnani	A596 A614
Cláudia Renata Borges Miranda	G560 L513	Cristiano Morita Barrado	G690
Cláudio Antônio Perottoni	C600	Cristiano Ribeiro de Santi	A620
Cláudio Geraldo Schön	G705	Cristina Bormio-nunes	G769 K510
Cláudio Gouvêa dos Santos	G692	Cristina Bornio Nunes	G704 G737
Cláudio José da Rocha	N507	Cristina das Graças Fassina Guedes	G901 G933 C639
Cláudio Luiz Carvalho	B554	Cristina de Garcia Venturini	H581
Cláudio Radtke	C541	Cristina Godoy	C640 C641
Cláwsio Cruz Sousa	D556 D557	Cristina Kurachi	J535
Cleber Amorim	G744	Cristina Moniz Araujo Lopes	A529 G711
Cleber dos Anjos Santana	G829 G887	Cristina Monteiro Ribeiro	G574
Cleber Fabiano Nascimento	G538	Cristina Pacheco-soares	H609
Cleber José Soares	H512	Cristina Peruchi Dário	C528 C529
Cleber Renato Mendonça	J506 A509 G543	Cristina Souza Freire Nordi	H530
Clecio Gomes dos Santos	A582	Cristina Tristão Andrade	H507 H576 B559
Clederson Paduani	K514	Crystal Badra Fernandes Rosa	G643
Cleia de Andrade Salles	B541	Cybele Lotti	B508

Cyntia Tomasso	F569	Danilo Manzani	G963
D Landínez Téllez	A628	Danilo Marin Fermino	A562
Dachamir Hotza	D574 H594 D594	Danilo Roque Huanca	F586 G880 G881
Dairo Humberto Vizcaino Cespedes	D599	Danilo Stradiotti Comenalli	G517
Dalber Rubén Sanchez Candela	G589 G910 A631	Danniely Silva Melo	G846 G911
Daliana Borges Gomes	G978	Dante Ferreira Franceschini	G537 C616 N516
Dane Tadeu Cestarolli	G558 M508	Dante Ferreira Franceschini Filho	C652
Daniel Baracuy Campos	D591	Dante Luis Chinaglia	A565
Daniel Biggemann	L518	Darcy Hiroe Fujii Kanda	G785 G819
Daniel Bretas Roa	G979	Dario Bueno Baqués	E555
Daniel Campana Racio	F568	Davi Neves	J515
Daniel Felipe Simiâo	F532	David A Cullen	E567
Daniel Gould	E545	David Banchik	E514
Daniel Grando Stroppa	G746 L519	David Comedi	G502 E525
Daniel Guillermo Galvez	L516	David Fernando Reyes	E541 E542
Daniel Huster	H520	David Gimenez Romero	G598
Daniel Karl Resende	B548 B555	David Iraola García	G666
Daniel Lorscheitter Baptista	C612 N513 N511	David J Smith	E567
Daniel Luiz da Silva	G541 G543	David K Matlock	E526
Daniel Martins Braga	G784	David Larbalestier	D538
Daniel Martins Brito	F517	David Lederman	E507 E563
Daniel Osvaldo Serafini	E544	David Pereira Nascimento	C512
Daniel Pasquini	H531	David Romanelli Pinto	J543
Daniel Scodeler Raimundo	F586 G880 G881	David Simon Schmool	G704 G737
Daniel Serafini	E529	David Sotero dos Santos	J506 G962
Daniel Soares Almeida	E508 E515 E550	David Torres Torres	C552
Daniel Sousa Borges	K501	Davinson Mariano da Silva	D505
Daniel Souza Corrêa	J506	Dawy Keyson	G805 G823 G807 G838 G806
Daniel Travessini	G969	Dayse Caldas de Azevedo	F541
Daniel Ugarte	L522	Dayse Iara dos Santos	D579 G553 G739
Daniel Uliana	M510	Dácio Moreira de Souza	G537 C616 N516
Daniel Zanetti de Florio	I506 I520 I521 I522 I559 I514	Dárcio Hersch Souza Sá	D616
Daniela Cristina Manfroi Rodrigues	I601	Debora Corso	F566
Daniela Macedo	E523	Debora da Silva Lima Pontes	G857 G778 G625 G684 G675
Daniela Russo Leite	I580	Debora Silva Pontes	G622
Daniela Zanchet	G842	Debora Terezia Balogh	G590 G591
Daniele C Venanzi	H525	Deborah Pinheiro Dick	H548 H549
Daniele Henrique Martinelli	D507	Delegates Prevenir Network	E564
Danieli Aparecida Pereira Reis	E550 J542	Delia do Carmo Vieira do Carmo Vieira	I603
Danieli Reis	E515	Delilah Wood	G809
Danielle Berger	G876 G830	Delphine Alleaux	J510
Danielle Fernandes Amaro dos Santos	N514	Demetrius Profeti	F512
Danielle Juais	G618 G772	Demétrio Werner Soares	D618
Danielly Vieira de Lucena	D591	Deniol Katsuki Tanaka	C526
Danilo Borges Villarino de Castro	G531 G531	Denise Alves Fungaro	G679
Danilo Justino Carastan	B564	Denise de Jesus Santos	D552
Danilo Maciel Barquete	C617 C618	Denise de Oliveira Gaspareto	F530
		Denise de Oliveira Silva	H554

Denise de Souza Pereira	A633	Douglas de Britto	H523 H528
Denise Fernandes de Mello	G694	Douglas Freitas Takeuti	K504
Denise Freitas Siqueira Petri	H522	Douglas Gouvea	G895 G929 G931
Denise Maria Zezell	J545	Douglas Langie da Silva	L508 L517
Denise Mercês Camarano	B521	Douglas Ramos da Silva	J518
Denise Proença	G605 G879	Douglas Teixeira de Almeida	I559
Denise Schermann Azambuja	A585	Dráulio Sales da Silva	A632
Denise V Resende	H579		I541 I570 I581
Derval dos Santos Rosa	G901 G933 C639		I592 I588 I590
	G948 G949 G950		I598 I600 I602
Deuber Lincon Agostini	G943		I607
Deusanilde Jesus Silva	H568	Duclerc Fernandes Parra	G504 G550 A558
Devaney Ribeiro do Carmo	A505 A510		G672 A562 A576
Deyse Elisabeth Ortiz Suman	G882 G935	Duglas Gouvêa	G854
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Débora Arantes Campos	C587	Dulce Maria de Araujo Melo	D507 D513 G565
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Débora Gonçalves	F514	Dulcina Ferreira de Souza	D608 G911 G932
Débora Maria Mitter Marques	J524		I515
Débora Reis Ribeiro	H560	Dulcina Pinatti Ferreira de Souza	I539 I554 I555
Débora Silva Pontes	G670		I556 I562 I563
Débora Terezia Balogh	H525 G609 G610	Dunieskys Gonzalez Larrudé	I573
Débora Thomazelli de Oliveira	H554		L503
Diana Manzi	A581	Durval Rodrigues Júnior	D538 G704 G769
Didier Perrin	G978		D578 G737
Diego C B Alves	I540		K510
Diego Cerqueira Montes	G603	Dyovani Coelho	F537
Diego de Holanda Saboya	B558	E Dalibon	C643
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Diego Germán Lamas	D619 G938 G939	E I Kauppinen	G720
Diego Henrique Moreli Gênova	I527	Ecio José França	A544 H547
Diego Kops Pinto	G956	Edcleide Maria Araujo	G563 B515 B547
Diego Leoni Franco	F533 G731	Edel F Barbosa-stancioli	B516
Diego Pereira dos Santos	G597	Edeltraud Materna Morris	H604 A618
Dilleyes Ferreira da Silva	G955	Edemilson Pinto Silva	K503
Dilma Alves Costa	A606	Eder José Guidelli	A545 A546
Dilson da Costa Maia Filho	B563	Ederson Carlos Aguiar	G507
Dinesh R Katti	C650	Edgar Aparecido Sanches	G607 I577
Diogo Grillo	G949 G950	Edgar Dutra Zanotto	E546 C589 E512
Diogo Paschoalini Volanti	G805 G823	Edgar Leonardo Martinez	E516
Diogo Robl	I608	Edilson Valmir Benvenutti	B502
Diogo Volpati	H514 G840 E537	Edinilton Morais Cavalcante	A535 A585
Diógenes Adriano Justo	D501	Edison Bittencourt	G862
Dirceu Spinelli	G531 E558	Edison Uggioni	G664
Divanizia Nascimento Souza	K508	Edith Ariza Ávila	D523
Divânia Ferreira da Silva	G563	Edmundo Silva Braga	D513
Donato A Gomes Aranda	G693	Edna Regina Spada	K504
Donato Aranda	G666	Ednaldo José Ferreira	F580
Donovan Enrique Diaz-droguett	L516	Ednan Joanni	H533 B536
Doris Maribel Escriba	K503	Edson A Ticianelli	G516 G626
Dorival Vendramini Júnior	G975	Edson Amaro Junior	F512
		Edson Antonio Ticianelli	A518 A519
		Edson Bazzo	F521 F536
			D594

Edson Caetano Passamani	G844	Eglantina Benavente	A613 A615 A617
Edson Francisquetti	B541	Elaine Amaral Leite	H510
Edson Giuliani Ramos Fernandes	H605	Elaine Cristina de Azevedo	C607
Edson Laureto	G717 G965	Elaine Cristina Muniz	G626
Edson Noriyuki Ito	B558 G557 G564 G565 G583 F528 L509 A555 G657 G663	Elaine Cristina Paris	G624 G683 G768 G926 G749 G788 G579 G789
Edson Roberto Leite	L510 G669 G673 G689 G725 G746 I549 L519 G879 F588 G919 G625	Elaine da Silveira Leite	G968
Edson Vernek	E528 E535	Elaine Gaspar de Souza	M519
Eduardo A Elizalde-peña	E522	Elaine Patrícia Araújo	G563
Eduardo Antonelli	I589	Elaine Ruzgus Pereira Pinto	B573
Eduardo Blando	C540 C568 C598 C601	Elaine Vidal Dias	B574
Eduardo Borcchi	E523	Elaine Yoshiko Matsubara	F550 F557 F581 F582 F592
Eduardo Caetano Camilo de Souza	I511 I519	Elânia Maria Fernandes	D556 D557
Eduardo Carvalho Sousa	G757	Elbio Dagotto	E531
Eduardo Cruz-silva	E567	Elder Alpes de Vasconcelos	A543
Eduardo de Albuquerque Brocchi	E518 E524 E533	Elen Poliani da Silva Arlindo	G908
Eduardo de Moraes	G736	Elena Valerienovna Muravitskaya	F556
Eduardo de Sousa Lima	D502	Elenice Cavichioli Borba	M513
Eduardo Ernesto Miró	E532	Eleomar Lena	I529
Eduardo Galvão Ramalho	D528 D570	Eleonora Erdmann	A597
Eduardo Granado	G833	Elialdo Chibério da Silva	D571
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Ivo Alexandre Hümmelgen	G588	Jeferson Luís da Silva Rosa	B510
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J Carlos Egues	E554	Jerusa Goes Aragão Santana	D543
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J M Rivas Mercury	G964	Jesualdo Luiz Rossi	I584
Jackson Guedes Lima	I593	Jesum Alves Fernandes	C598
Jacobus W Swart	K515 K518	Jesús Maria Rincón	D566
Jacqueline Aparecida Marques	F566	Jeverson Teodoro Arantes	G699
Jacqueline Arguello da Silva	A584	Jérôme Depeyrot	G638 G640 G757
Jadson Cláudio Belchior	A581	Jéssica da Rosa Silva	I545
Jagdish Luthra	E521	Jéssica Fernanda Affonso de Oliveira	A555
Jailson Alexandre Ribeiro Carvalho	G849	Jéssica Folli	G933
Jailson Machado Ferreira	G861	Jiang Kai	A576
Jaime T Watanuki	J513	Jianyi Jiang	D538
Jair Ricardo de Moraes	G878	Jilian Nei Freitas	F520
Jair Scarminio	F544	Jimenez R Jose	E559
Jairton Dupont	F583 F584	Jivaldo do Rosario Matos	I508 G578 A623
James G Longstaffe	E516	Joachim Deubener	E546
Jan Franciszek Biernat	J522 J529 G750	Joana Ozi	H593
Janaina da Silva Crespo	A506 B522	Joao Batista Marimon da Cunha	G589
Janaina Soares Santos	F525	Joao Bl Martins	G599 G667
Janaíde Cavalcante Rocha	G900	Joao Eduardo Benedetti	A599
Jane Karla Faria Borges Machado	A532	Joao Francisco Justo	G759
Jane Maria Faulstich de Paiva	C587	Joao Guilherme Rocha Poço	F522
Janete Eunice Zorzi	C600	Joaquin Guillén Cruz	E555
Jardeilde Rosendo Amaral	D507	João Alzirô Herz da Jornada	G866
Jarem Raul Garcia	F537 F566 F587	João Barros Valim	A603
Javier Bustamante Mamani	A518 A519	João Batista Giordano	C574
Javier Fernández Sanz	G521	João Batista Graciosa	L517 F595
Javier Mazariegos Pablos	G837	João Batista Lopes Martins	G722 G736 G877
Javier Onório	J542	João Batista Marimon da Cunha	G891
Javier Ramirez Fernandez	H617	João Borges da Silveira	G952 G953 B554
Javier Santisteban	E514	João Borges Laurindo	G970
Jayachandran Mj	C584		B525

João Bosco de Andrade Lobo	K505	Jose Antonio Ramirez	L522
João Bosco Paula	G784	Jose Antonio Souza	G569
João Carlos Silos Moraes	B554	Jose Antônio Eiras	I607
João Francisco Borin	G871	Jose Bras Barreto de Oliveira	G717 G734
João Francisco Justo	A528 H526	Jose Carlos Oliveira	G827
João Jorge Klein	F547	Jose Ciro Rojas Quispe	G760
João José Melo dos Santos	D596	Jose Daniel Mello	C644
João M J Lopes	L512	Jose de Los Santos Guerra	I601
João Marcos Madurro	F533 G652 G731 G646 G959	Jose Divo Bressan	C562 C561
João Paulo Bianchi Ladeia	F571	Jose Fabian Schneider	E516
João Paulo Sinnecker	G575 D521	Jose Flavio Timoteo Jr	D621
João Roberto do Carmo	I504	Jose Gerivaldo Duque	D616
João Roberto Moro	C631	Jose Hilton Rangel	G957
João Sinézio de Carvalho	C602 C574	Jose Leopoldo Constantino	F532
Campos		Jose M Romo-herrera	E567
João Wagner Lopes Oliveira	N513 N511	Jose Mauricio Rosolen	F581 F582
Joelson Cott Garcia	A528 H526	Jose Quiñones Galvan	E543
John C Lippold	M521	Jose Roberto Berretta	J520
John G Speer	E526	Jose Roberto Martinelli	I506 D505
John M Krochta	H559	Jose Sanz Garitaonandia	G704 G737
John Paul Hempel Lima	H550	Jose Waldo Martinez Espinosa	G789
John Vandesande	E523	Jose Walkimar Carneiro	G508
John Vlachopoulos	A620	Josealdo Tonholo	G629 A616
Johnyson Pereira Feitosa	G855	Joseana Betisa Vernini	G711
Jomilson Moraes dos Santos	D554	Josef W Zwanziger	E516
Jon Otto Fossum	H535 H538	Josemar de Souza	I575
Jonas Gruber	F520 G588	Josevaldo Wm Espinosa	G604
Jonas Soares Gutierrez	D511 D527	José A Agnelli	G608
Jonatas Almeida Pires	J539	José A O Freire	E557
Jonathan Deseure	I605	José Alberto Giacometti	H503 J522 J529 J546 G750
Jonnatan Julival dos Santos	G814	José Alexandre Diniz	H553 G773
Jordan Del Nero	G505	José Antonio Alonso	G833
Jorge Amim Júnior	H522	José Antonio Coaquira	A629
Jorge Anderson Paiva Ramos	G559	José Antonio de Saja	A521 A522 I541 I586 I588
Jorge Benildo Reis Júnior	H576	José Antonio Eiras	I590 I592 I598
Jorge e Di Rito	D601	José Antonio Huamani	H539
Jorge Enrique Rodriguez	D525 E556	Coaquira	
Jorge Luiz Barbosa Maciel Jr.	G916	José Antonio Malmonge	H578 G791 G952
Jorge Magner Lourenço	D534 D628	José António Lopes-da-silva	B562
Jorge Manuel Capela	F502	José Antônio de Souza	G702
Jorge Márquez Escalante	E505	Fernandes	
Jorge Otubo	G703	José Antônio Malmonge	G819
Jorge Silva	A575		
Jorge Tadao Matsushima	F504 F577		
Jorge Vicente Silva	D514		
Jorlandio Francisco Felix	D533 A543		
Jose Alexander Araujo	A580		
Jose Antonio Eiras	I570 I581 I600 I602		
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José Arana Varela	G516 G522 G529 G530 G535 G545 G546 G549 G557 G564 G565 G577 G608 G579 G580 G581 G582 G583 G586 G604 G605 G611 G613 G614 G617 G624 G626 G635 G636 A555 G663 G668 G715 G724 G723 G729 I564 G775 G778 G779 G780 I576 G823 I577 G830 I580 G857 G874 G898 G637 I572 E556 G661 G602 G683 G805 G669 D605 G657	José Luis Ramírez Ascheri José Luiz Guimarães José Luiz Minatti José Manoel Marconcini José Manuel Arroyo Osorio José Marcos Entringer José Marcos Sasaki José Maria Corrêa Bueno José Maria do Vale Quaresma José Maria Vale Quaresma José Mario Ferreira José Martín Ramallo-íópez José Maurício Rosolen José Mário Carneiro Vilela José Milton Elias de Matos José Nilson França Holanda José Pedro Serbena José Pedro Serra José Raimundo Pereira José Renato Jurkevicz Delben José Ribeiro dos Santos Júnior José Ribeiro Santos Jr José Ricardo Galvão José Ricardo Tarpani José Roberto Berretta José Roberto Dias Pereira José Roberto Garbin José Roberto Rodrigues José Roberto S Almeida Leite José Roberto Tavares Branco José Roberto Tozoni José Varela José Vitor Cândido de Souza José Vitor Cândido Souza José Waldo Martinez Espinosa José Walkimar Mesquita de Carneiro Josélia Borges Moura Josiani Cristina Stefanelo Josiel José da Silva Jossano Saldanha Marcuzzo Josué Mendes Filho Jônatas Almeida Pires Juan Alfredo Guevara Carrió Juan Antonio Ruano Ortiz Juan Bort Juan Manuel Zamaro Juan Muñoz Saldaña	B528 B531 C578 D575 H569 H570 H611 J525 D588 D516 G842 G727 G855 K505 G818 I508 E551 F550 F557 F579 F592 M513 C570 G592 G592 G594 D544 G588 D554 I608 H603 F508 F509 F564 G761 F517 N511 N513 C612 A626 A625 J518 J537 J538 J549 I588 H565 H573 J535 F508 G568 D509 A504 D525 D550 D610 C627 G613 G614 G657 G788 G861 G724 G693 F509 A565 G520 G612 A563 H571 D561 B531 G577 E532 E513 C552 E565
José Augusto Agnelli	H595		
José Brant de Campos	D502 G589		
José Cláudio Galzerani	G502 G607		
José D Santos	G599		
José da Silva Junior	A508		
José Daniel Diniz Mello	C642		
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José de Los Santos Guerra	I526 I599 G722 G736 G800		
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José Elisandro de Andrade	H606		
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José Fabián Schneider	A527 F565		
José Fernando Condeles	G676 D626		
José Fernando Queiruga Rey	I504 I522 I537		
José Ferreira da Silva	D571		
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José Francisco Fernández	I572		
José Geraldo Alves Brito Neto	F529		
José Geraldo Andrade Pacheco Filho	A601		
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José Geraldo Vicente Coimbra Araújo	H513		
José Guilherme A B Simões	J513		
José Guilherme Alvarenga Batista Simões	J533		
José Humberto Dias Silva	G796		
José Hundenberg Pereira Barbosa	A539		
José Javier Saez Acuña	G556 L520		
José Jesus Pereira	D603		
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Judes Gonçaves dos Santos	H539	Júlio César Sczancoski	G580 G613 G724 G874 G582
Julian Andres Munevar	G910	Júlio Félix de Miranda Coelho	C511
Cagigas		Pinto	
Juliana Antonino de Souza	C581	Kalionara Freitas	D545
Juliana Aparecida Lucindo	G908 G919	Kalpana S Katti	C650
Juliana Batista Silva	D515 G641	Kamilla Missiaggia Cruz	B513
Juliana Carlos Cancino	F513	Kannan M Krishnan	E520
Juliana Castro Macêdo-fonsêca	B567	Karen Wohnrath	F537 F587
Juliana Catarina Bruno	D554 G815 D530	Karim Dahmouche	A556 A583 B542 B577
Juliana Coatrini Soares	F514 D551	Karina Araujo Kodel	K508
Juliana Cordeiro Cardoso	H571 H607 H615 H616 J539	Karina Nigoghossian	A503
Juliana do Nascimento Lunz	B514	Karine C C W dos S Klider	F566
Juliana Francis Piai	G803	Karl Schulte	B557
Juliana Henriques Pereira	A583	Kasselyne Dantas Araujo	B516
Juliana Jorge	H506	Katia Cristiane Gandolpho Candioto	L511
Juliana Lopes Cardoso	G539 F503	Katia Jorge Ciuffi	A515 A516 A517 A525 A532 A579 A590 A593 A578 A574
Juliana Manica	C635	Katia Letícia da Silva	D560
Juliana Milanez	G555 G668	Katia Yuri Fausta Kawase	H600
Juliana Polisseni	H621	Katti Faceli	H566
Juliana Ramos de Andrade	G628	Kazunori Umeo	G634
Juliana Rodrigues Franco	G884	Kássio André Lacerda	B521
Juliana Rovere	M518	Kátia Jorge Ciuffi	A575 A586
Juliana Sanchez Morine	I521	Keila Beatriz Garcia Leite	J513
Juliana Scramin	H528	Keila Machado de Medeiros	G563
Juliana Sousa Gonçalves	G594	Keisuke Shigetoh	G764
Juliano Alves Bonacin	G814	Keizo Yukimitu	B554 G906 G907
Juliano Andrade	F506	Kelen Soares Trentin	G866
Juliano Carvalho Cardoso	F540	Keli Cristina Bassetto	G868
Juliano de Andrade Gomes	G638 G640	Kelly Aparecida Dias de Freitas Castro	A507
Juliano Fujioka Mologni	K504	Kelly Carvalho Teixeira	A614
Juliano Marini	B508	Kelly Cristina Jorge	J532
Julie Gough	E522	Kelly Silva Santos	B511
Juliette Sirieix-planet	I606	Kellyanne Alves Moura	D608
Julio C Sczancoski	G617	Ken Elder	G559
Julio Cesar Artur	A538	Kevin Ingersent	E528
Julio Cesar Pestana	B560	Kevin Paul Plucknett	D569 E545
Julio Cesar Santos	G796	Késia Karina de Oliveira Souto	D621 D596
Julio Cesar Sczancoski	G581	Kênia Freitas	F521
Julio Cesar Ximenes	B509	Kimberly Colas	E514
Julio Miranda Pureza	C591 C592 G534 G551 G579 G604 G608 G951 G812 G816 G792 G885 G843 G975	Kiriaki Moudatsos Rodrigues	G550
Julio Ricardo Sambrano	B558	Kírian Pimenta Lopes	G879
Julio Roberto Bartoli	A524 A534	Klaus Capelle	G662
Junior Antunes Koch	E511	Klaus Krambrock	H529 G765 G713 G765
Jurian G Sereni	I532		
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Jutta Rieger	G747 G831		
Júlia Maria Giehl			

Kleber Bergamaski	F594	Leandro R Tessler	G918
Koiti Araki	A591 G814 H617	Ledjane Silva Barreto	A572
Kouichirou Suekuni	G634	Leila Aparecida Chiavacci	A566
Kuppusami Pk	C584	Leila Figueiredo de Miranda	G700
Kurt Stangel	G518	Leila Lea Yuan	B574
Kurt Strecker	D625	Leila Peres	C506
Kyungmin Lee	E506	Leila Rosa de Oliveira Cruz	G702
L N Barbosa	G693	Leilane Roberta Macário	G715 G805 G823
	G580 G581 G582	Leiliane Alves Oliveira	D592
Laécio Santos Cavalcante	G592 G594 G607	Leiliane Cristina Cossolino	G574
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Laércio Caetano	G724 G874	Leliz Ticona Arenas	A585
Laís Fumie Sato	A570	Leni Campos Akcelrud	G904
Laís Koshimizu	A587	Leo Lau	E547
Lalgudi Venkataraman	G732	Leonard Guimarães Carvalho	G666
Ramanathan	C509	Leonardo Almeida Barizon	G739
Lana Lopes Souza	D512	Leonardo Augusto Moreira	B546
Larissa Barbosa Rabelo	H546	Leonardo Bresciani Canto	B556 B559
Larissa Helena de Oliveira	A555	Leonardo C Campos	I540
Larissa Nery Maruci	I579	Leonardo Damigo	G754
Larissa Rodrigues Damiani	C531	Leonardo de Boni	A509
Larissa Souza Mendes	H505	Leonardo Giordano Paterno	H598
Lars Ramstad Alme	H535 H538	Leonardo Gregory Brunnet	C527
Laudemir Carlos Varanda	G509	Leonardo Iusuti Medeiros	F579 G841
Laura A Palomares	E520	Leonardo Kyo Kabayama	G703
Laura Alejandra Fasce	C535	Leonardo Lagoeiro	K506
Laura Goncalves Carr	B534	Leonardo Marinho Fernandes	B528
Laura O P Philadelphi	F566	Leonardo Miotti	C569 C601 C611
Laura Oliveira Péres	G601 G968	Leonardo Tsuyoshi Ueno	G927
Laurent Dessemont	I533	Leticia Abdias Pinto	G631
Laurent Gaillon	I606	Leticia Ledo Marciniuk	H599
Lauro June Queiroz Maia	A520 C530	Leticia Torres Martínez	E522 A637
Lauro Tatsuo Kubota	F523 F530 F531	Letícia Coelho	H521
Leandra Oliveira Salmazo	G651 G753 G888	Letícia Gomes de Ávila	H548 H549
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Leandro Aparecido Pocrifka	F548 F555 F591	Letícia Marques Colomé	H581
Leandro Barretti Olivo	C593	Letícia Ramos Nacano	A547
Leandro Conceição	D504 D506	Letícia Todeschini	A535
Leandro da Silva Ribeiro	G800	Lia Silva de Oliveira	L517 F595
Leandro Gustavo da Silva	G646	Liana Alvares Rodrigues	N501 A511
Leandro José dos Santos	H529	Liane Marcia Rossi	A506 G540 A541
Leandro Lopes	A566	Lidia Oazem da Costa	K521
Leandro Marcelo Acuña	D619	Lidiane Aparecida Almeida	B513
Leandro Matioli Machado	J521	Lidiane Hott Borges	D508
Leandro Moreira de Campos	G517	Ligia Oliveira Ruggiero	D568
Pinto		Liliam Viana Leonel	D515
Leandro Piaggi Ravaro	G751 G824	Lilian Hoshida	C514
Leandro Pizzatto	B522	Lilian Marques Silva	C638
Leandro Procópio Alves	H519		

Lilian Rodrigues Ávila	A525 A586 A593	Lucas Veloso Carvalho Rodrigues	G738
Liliana Burakowski Nohara	C649 C593	Lucia Helena Guimarães Cardoso	G589
Liliana Garrido	E545	Lucia Helena Mascaro	F507 F549
Liliane Canuto Dolavale	C630	Lucia Trazzi Prieto	H590
Liliane Cristina Battirola	F565	Lucia Vieira Santos	C536 C544 C547
Lin Wang	E549	Luciana Almeida Fraga	A504
Lincoln Gomes	G808	Luciana Aparecida Farias	F518
Lincoln Silva Gomes	M516 F576	Luciana Camacho	G666
Linda J Broadbelt	E549	Luciana Correa	G536
Lindoval Domiciano	G706	Luciana de Paula Baggini Lôvo	A561
Lino Misoguti	G543	Luciana de Simone Cividanes	G570
Lionel Gamarra Contreras	A518 A519	Luciana Gaffo	G681 A509
Lisandra Naiara Rigo	H616	Luciana Ghussn	E512 E546
Lisandro José Giovanetti	E551	Luciana Guimarães	G958
Lisandro Pavie Cardoso	F544	Luciana Moura Brito	A580
Lisiane Veiga Mattos	D617 K521	Luciana Nakahara	G687
Liu Yao Cho	C520	Luciana Nuñez	G786
Livio Amaral	G642 F583 F584	Luciana Serra Soeira	G752
Liying Zhang	E512	Luciana Valgas de Souza	G969
Liz Zanchetta D Agostino	L515	Luciana Zidoi	F507
Liz Zanchetta D'agostino	M510	Luciane Calabria	B540
Liziane Marçal	A574 A578	Luciano Andrey Montoro	L519 L518
Lídia Oazem Costa	D617	Luciano Caseli	H504 H508 F510 H518 H517 H520 H534 H541 H555 H502
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Lívia Mesquita Dias Loiola	A564		
Lívio Bruno Jacques da Silva	G884		
Ljubica Tasic	H588		
Lopez Jenssen Marta	E559	Luciano Dib	H593
Lorena Marcelino Cardoso	J549	Luciano Paulino Silva	H544
Lorena Marín	E542	Luciano Tavares Costa	G515
Loreto Barcos	E544	Luciano Trevisan	G596
Loreto Troncoso	E544	Lucidio Souza Santos	G622 G625 G627 G675 G690 G670 G684
Luan Xi	E547		
Luana Gabrielle Ferreira	F517		
Luana Rodrigues Kojuch	B547	Luciene das Graças Mota	H513
Luanna Silveira Parreira	F560 F571	Lucilene Betega de Paiva	D510
Lucas Antônio Miranda Ferreira	H546	Lucimara Aparecida Forato	H527 H528
Lucas Barboza Sarno da Silva	K510 G769	Lucimara Capelozi Bandeira	A525 A575
Lucas Carvalho Rodrigues	G671	Lucimara Stoltz Roman	G505
Lucas Emanuel França de Magalhães	H529 G765	Lucineia Ferreira Ceridório	G610
Lucas Falquetti Saliba	A523	Lucídio de Souza Santos	D559
Lucas Francisco de Melo	G775 G776	Lucy Vitória Credidio Assali	A528 H526 G759
Lucas Franco Ferreira	G646 G959	Luis Alexandre Maffei Sartini Paulillo	A600 H590
Lucas Freitas Berti	D594	Luis Antonio Sanchez de Almeida Prado	B557
Lucas Gomes Pedroni	B524	Luis Antônio Bocchi	D501
Lucas Petit Aragao	G627	Luis Augusto Marques da Rocha	D513

Luis Carlos Barbosa	G835		Luiz Gonzaga Vaz Coelho	H510 H513
Luis Carlos Cides Silva	G578		Luiz Guilherme Macedo	G816 G868 G885
Luis Carlos de Morais	H524			H532 H533 H558
Luis Claudio Benine	G799			H559 H570 H572
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Luis Correa Passos	H609			H589 H595 H596
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Luis Dias Carlos	A520			B536 H501 H578
Luis Eduardo Almeida	A572		Luiz Henrique Catalani	G618 G655 G772 A591
Luis Escobar-alarcon	E539		Luiz Henrique da Cunha Andrade	H603
Luis Fernando Correa	E548		Luiz Henrique de Almeida	M509
Luis Fernando Cótica	H536 H537		Luiz Marcelo Silva	A579
Luis Francisco Bonetti	C536 G643 C544 C547 C549 C628 C631		Luiz Mauro Damaceno Cardoso	J538
Luis G Dias da Silva	E528		Luiz Orlando Ladeira	G713 G765 G817 G873 H621 G884
Luis G Rego	E502		Luiz Pereira de Brito	D596
Luis G. C. Rego	E557		Luiz Pizarro Borges	K521 D617
Luis Gallego Martinez	N507 I584		Luiz Sampaio	G864
Luis Genova	E545		Luiz Sérgio Almeida Camargo	H621
Luis Marcelo Marques Tavares	I597		Luiza de Castro Folgueras	G905
Luis P S Santos	G964		Luiza Nobuco Hirota Arakaki	A557
Luis Presley Santos	G957		Luiza Nobuko Hirota Arakaki	A539 A554 A622 A621
Luis Puigjaner	J505		Luís Antônio da Silva	M508
Luis Rogerio de Oliveira Hein	M515		Luís Augusto Rocha	D537
Luis Vicente de Andrade Scalvi	G751 G796 G824 G916		Luís Fernando Quintino Pereira Marchesi	F591
Luisa Magno de Carvalho	A556		Luís Francisco Bonetti	C542
Luiz Alberto Simeoni	B555		Luís Henrique Leme Louro	D502
Luiz Antonio Oliveira Nunes	G738		Luís Sartini Paulillo	H582
Luiz Antonio Pessan	G544		Luísa M Ribeiro Scolfaro	G567
Luiz Antônio Rasia	C531		Lúcia Adriana Villas-bôas	I539
Luiz Augusto Sousa de Oliveira	G575 D521		Lúcia Trazzi Prieto	H582 A600
Luiz C. Santa Maria	A609		Lúcia Vieira Santos	C628 C549
Luiz Carlos Barbosa	G747 G831		Lúcio Eugênio de Souza Consales	D567
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Luiz Carlos Oliveira	D624		Lydianne Christine de Oliveira Miranda	I593
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Luiz Edmundo Bastos Soledade	G848 G850		M S M Petro	G901
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Luiz Fernando M Dias Galdino	H586			
Luiz Fernando Schelp	C553			
Luiz Francisco Malmonqe	G952 G825 G886			

Malone Santos Pinheiro	H615	Marcelo Ornaghi Orlandi	G825 G914 G919
Manoel Martins dos Santos Filho	A616		G941 G908
Manoel Ortiz	H581	Marcelo Porto Bemquerer	H544
Manoel Ribeiro da Silva	D618	Marcelo Ricardo Esquivel	D604 D609 D611
Manuel Henrique Lente	I586 I598	Marcelo Rodrigues da Silva	F501
Manuel Venceslau Caté	G799	Marcelo Santos Gomes	G635
Mara A Canesqui	G720	Marcelo Santos Pereira	G660
Mara Granada	A548	Marcelo Shiroma Lancarotte	N505
Marc Anderson	F539	Marcelo Tadeu Milan	E558
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Marcel Silva Marchesin	F582 F592	Marcia Abreu Fantini	G578
Marcel Zago Botelho	H545	Marcia Caldeira Brant	I523 I536 I542 G756 I569 I605
Marcela Durán	H588	Marcia Carvalho Fantini	G639
Marcela Guedes Matos	A586	Marcia Cristina Branciforti	J514 B508 B534
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Marcello Filgueira	D508	Marcia Ferreira Bini	I546 I548
Marcelo Assumpção Silva	A592	Marcia Laudelina Arruda Temperini	A530 G597 G597
Marcelo Augusto Gonçalves Bardi	G933 G948 G949 G950	Marcia Lourenço Cardoso	F590
Marcelo Campos	C550 C564	Marcia Lucchese	N510
Marcelo Carmo	F522	Marcia Maria Favaro	J514
Marcelo de Assumpção Pereira-da-silva	A630	Marcia Maria Silva	A554
Marcelo de Ataíde Ferreira	F573	Marcia Marie Maru	M516
Marcelo Dourado Moncks	G915	Marcia Martins	G536
Marcelo Eduardo Huguenin Maia da Costa	C596	Marcia Rejane Santos da Silva	G856 G860
Marcelo Falcão Oliveira	G797 E558	Marcia Russman Gallas	A535
Marcelo Fernandes Oliveira	D514	Marcia T Escote	G622
Marcelo Geraldo Destro	J507 J509 J532 J533	Marcia Tsuyama Escote	G587
Marcelo Giovanelha	B522	Marciano Furukava	D516 D592
Marcelo Henrique Prado	H540	Marcilene Cristina Gomes	G946
Marcelo Henrique Prado da Silva	D502	Marcio D Ferreira	G599
Marcelo Henrique Sousa	H544 G638 G757	Marcio Douvel Ferreira	G877 G909
Marcelo José Bondioli	D625	Marcio L Nascimento	E516
Marcelo Linardi	F518 F519 F522	Marcio Matos dos Santos	J524
Marcelo Luiz Calegaro	F560 F562 F568 F571	Marcio Roberto Martins	G717 G734
Marcelo Machado Viana	D547	Marcio Ronaldo Farias Soares	K516
Marcelo Mendes Pinto	D565	Marcio Tarozzo Biasoli	I579
Marcelo Moizinho Oliveira	G957	Marco Antonio Camacho-lopez	E539
Marcelo Mulato	G506 G676 D626 G507	Marco Antonio Martines	H505
Marcelo Nelson Carreño	G588 G922	Marco Antonio Sala Minucci	J543
Marcelo Oliveira	A575	Marco Antonio Utrera Marines	A570
Marcelo Orlando	G823	Marco Antonio Utrera Martines	A523 H506 L507
		Marco Antônio Alves	K504
		Marco Antônio Schiavon	A635
		Marco Aparecido de Brito	H605
		Marco Aurélio Cebim	A568

Marco Aurélio Liutheviciene Cordeiro	I549	Marcos Vinícius dos Santos Rezende	G912
Marco Cremona	A614	Marcus Antônio de Freitas Melo	D608
Marco Gioso	G536	Marcus Dal Pizzol	M518
Marco Polo Agra Stamato Santos	C606	Marcus Freitas Melo	A598
Marco Roberto Cavallari	G744	Marcus Galende	C508
Marco Túlio Raposo	K514	Marcus Vinicius Lia Fook	G563
Marcos Abreu Avila	G634 G764	Margarete S Silva	G898 G549
Marcos Allan Reis	G505	Margareth Spangler Andrade	M511 M513 C570
Marcos Andrade Junior	A604	Margarida Juri Saeki	G553 D530 D554
Marcos Antonio Coelho Berton	I544 I545 I547 I608	Maria Alice G dos Santos	G815 G824 G739
Marcos Antonio Vasconcellos	C527	Maria Alice Martins	H532
Marcos Antonio Zen Vasconcellos	C524 C525 C533 K511	Maria Amália Gonzaga Ribeiro	J539 H571
Marcos Antônio Dias de Almeida	D571	Maria Andrade Gomes	H608
Marcos Antônio Segatto Silva	A508	Maria Aparecida Larosa	J541
Marcos Augusto Bizeto	A530 A558	Maria Aparecida Zagheti	G516 G522 G635
Marcos Augusto de Lima Nobre	I527 G651 G678 G753 G810 G897 G903 G888	Maria Augusta Davidovich	G636 G637 G776
Marcos Benedito de Freitas	F524 F525	Maria Augusta Nascimento Bordignon	G775 G777 G779
Marcos Brown Gonçalves	F534 F535	Maria Auxiliadora Silva Oliveira	G780 G782 G786
Marcos Cremona	A596	Maria Carolina Costa	E531
Marcos de Lima Nobre	G936	Maria Clara Filippini Ierardi	B502 J503 J505
Marcos de Oliveira Junior	A527	Maria Claudia França da Cunha Felinto	J541
Marcos Dias	A597	Maria Cláudia Felinto	G767 G766
Marcos dos Reis Vargas	G722 G736 G800 G891	Maria Cláudia França Cunha Felinto	G671
Marcos Eufébio Espinoza	D501	Maria Cristina Dias Paes	G738
Marcos Fernando de Souza Teixeira	A594 F570 A612	Maria Cristina Roque-barreira	H570 H611
Marcos Finzi Corat	H609	Maria das Dores Bandeira Barroso	G632
Marcos Ghislandi	B557	Maria das Graças Sampaio Costa	B512 B514 B504
Marcos Lima Nobre	F532	Maria de Fátima Vieira Marques	E508 L506 D550
Marcos Lopes Dias	B575	Maria do Carmo Andrade Nono	D587 D593 D610
Marcos Massi	C514 G643 C548	Maria do Carmo Gonçalves	C627
Marcos Pini França	G673	Maria do Carmo Vasconcelos Medeiros da Silva	B519 A540
Marcos Ribeiro da Silva	D579	Maria Elena Gomez	K513
Marcos Ribeiro de Almeida	J509	Maria Elena Leyva	E542
Marcos Roberto Farias Soares	K516	Maria Elenice dos Santos	A502
Marcos Tadeu D'azeredo Orlando	N507 I584	Maria Elisa Scarpelli Ribeiro Silva	G517
Marcos Tadeu Pacheco	H519		H614
Marcos Takashi Santos Tanaka	G557		
Marcos Valério Ribeiro	C627		
Marcos Vasconcelos	K516		
Marcos Vinicius Costa e Silva	A550		

Maria Elisabete Darbello Zaniquelli	H502	Mariana Amorim Fraga	C548
Maria Elisabete Zaniquelli	H534	Mariana Bruno Rocha e Silva	B546
Maria Fátima Vieira Marques	B513	Mariana Carvalhaes Gallo	C583
Maria Gardênnia Fonseca	A539 A554 A557 A621 A622	Mariana Castanon	H540
Maria Genoveva Zimicz	D619	Mariana de Abreu Cruz	G605 G879
Maria Helena de Oliveira Piazzetta	N504	Mariana de Mattos Vieira Mello Souza	D503 D504 D506
Maria Helena Polgatti Moreira	G923	Mariana Gava Segatelli	A540 A547
Maria Helena Santos	A638	Mariana Maia Chams Eddine	I522
Maria Iaponeide Fernandes Macedo	G710	Mariana Pereira Massafera	F538
Maria Inês Basso Bernardi	G577 G663 A630	Mariana Pojar	N505 G864
Maria Inês Bruno Tavares	A504 B548 B538 B539 B546 B555 G901 B575	Mariana Silva Brito	I543
Maria Ingrid Barbosa	B502 J503 J505	Mariana Silva Palma	H610
Maria Isabel Felisberti	G527 B524 B520	Mariana Souza Sikora	H580 F572
Maria Isabel Pais da Silva	L524	Mariana Torquato Quezado Magalhães	H544
Maria Isabel Pividori	F505	Mariana Vieira de Mattos Mello Souza	D520
Maria Jose Joselevich	A548	Mariane Brumatti	M510 M512
Maria José Araújo Sales	A589	Mariane Cristina Schnitzle	B521
Maria José Fonseca Costa	A601	Mariane Martim Sobrosa Passos de Abreu	B535 B571
Maria José Oliveira	G550	Marianaldo Pinheiro Sousa Neto	G633
Maria José Valenzuela Bell	G747	Marias das Dores Bandeira Barroso	D580
Maria Luisa Sartorelli	F580	Marie-france Beaufort	G548 L504
Maria Luiza Rocco	A596	Marie-paule Delplancke-ogletree	C588
Maria Lúcia Caetano Pinto da Silva	N501 A511	Mariella Alzamora Camarena	A631
Maria Lúcia Pereira da Silva	H552 C637 C638	Marilda Dores Assis	A635
Maria M Cindra	A631	Marina R Aguiar	F523
Maria Madalena Camargo Forte	G923	Marina S Leite	L518
Maria Malerba Colombi Humel	H582 A600 H590	Marina Teixeira Laranjo	A535
Maria Manuela Maia Lé Tassinari	M510	Marinalda Claudete Pereira	M515
Maria Margareth da Silva	G703 C595	Marinalva Aparecida Alves-rosa	D541
Maria Raposo	H586	Marinalva Cerqueira Nasar	D603
Maria Regina Alcântara	F557	Mario Cilense	G549 G898
Maria Regina Calil	G933	Mario Engelsberg	H538
Maria Rita Cássia Santos	I589 I593	Mario José Politi	A636
Maria Rita de Moraes Chaves Santos	G592 G594	Mario Lúcio Moreira	G602 G768 G957
Maria Rita Sierakowski	H597		G622 G625 G627
Maria Tereza Araujo	J536		G670 G675 G684
Maria Terezinha Caruso Sansiviero	G696 G962		G690
Maria Valnice Boldrin Zanoni	F539 F540	Mario Sergio Vinicius Kapp	C550 C564
Maria Virgínia dos Santos	H585	Mario Ueda	C512 C514 G703
Marian Chatenet	F512	Marisa Cristina Guimarães Rocha	C595
Marian Rosaly Davolos	G522 A568 A610	Marisa Cristina Rocha	B528
		Marisa Masumi Beppu	A506
		Marisa Veiga Capela	F502
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Maristela Olzon-dionygio	C550 C564	Mauricio Roberto Bomio	G874
María Angélica Santa Ana	A617	Mauricio Roberto Bomio Delmonte	G545 G546
María Celeste Carrera	A597	Mauricio Tavares de Macedo Cruz	G533
María Claudia Marchi	L520	Mauricio Terrones	E567 E561 E562
María Cristina Moré Farias	C633	Maurines Nunes Andrade	G860 G856
María Del Pilar Hidalgo	H617	Maurizio Ferrante	G531
María Elena Gómez	E541	Maurícia Beddin Fritzen-garcia	F552
María Gisela Verón	D615	Maurício Antonio Custódio de Melo	D540
María Jesús Martinez Lope	G833	Maurício Barreto Lisboa	M509
Marília Junqueira Caldas	A602 G865	Maurício David Martins das Neves	J537 J538 J549
Marília Rizzi	H556	Maurício David Nevel	J518
Marjorie Benegra	D564	Maurício Macedo Cruz	G712
Mark Daymond	E514	Maurício Pereira Cantão	C579
Mark Schlesinger	E512	Maurício Ribeiro Baldan	F504 G560 L513 F577 F589 C648
Markus Lengauer	I572	Maurício Roberto Bomio	G723 G729
Marlene de Barros Coelho	H603	Maurício Veloso Brant Pinheiro	H529 G713 G765
Marli Leite de Moraes	H503 H586 H587	Mauro Alfredo Soto Oviedo	B551
Marlla Vallerius da Costa	F583 F584	Mauro Andre Dresch	I568 N514
Marlus Koehler	G538	Mauro César Terence	G700 D561
Marta Dotto	C581	Mauro Chierici Lopes	G758
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Marta López	E541	Mauro Costa Ribeiro	G515
Marta Palma Alves	H545	Mauro Francisco Pinheiro da Silva	G752
Marta Ziemienczuk	G541	Mauro Luciano Baesso	D542 K509 I588
Martha Lucía Mora Bejarano	F518	Mauro Moresco	G944
Martin C Plante	E503 E525	Mauro Soto Oviedo	B511 B529
Martin Emilio Mendoza	E518	Mauro Vanderlei Amorim	G760
Martin Hernan Marchena	A548	Mauro Vinícius Almeida da Silva	B514
Martin Hubbe	H568	Maximiliano Luis Munford	I559 N514 G884
Martínez Hernández Angel	E532	Maxima Romero Pérez	D566
Mary Cristina Ferreira Alves	G852 G788 G860 G789 G856	Mayara Elisa Rezende	G933
Marystela Ferreira	H525 G590 G609 H586 H503 H587	Mayra Dancini Gonçalves	G669
Masanori Hayase	F529	Maysa Franco Zampa	F508 F509 F564
Mateus Eurico Viana	G783	Márcia Caldeira Brant	I538 I543 I582
Mateus Santos Melo	H607 H615	Márcia Carvalho de Abreu Fantini	A623
Matheus Zorzoli Krolow	G798 G858 G804 G915	Márcia Fantini	G939
Mathew Espe	E555	Márcia Maria Fernandes Silva	A621 A622
Matilde Halma	A507	Márcia Martins Castoldi	G693
Matías Rodríguez	D611	Márcia Regina Cordeiro	A549
Matthias Koebel	E551	Márcia Regina de Moura	H559
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Mauricio Angeloni	G531		
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Márcia Valéria Silva Lima	F564	Miguel Gracia-pinilla	E560
Márcio Antonio Fiori	C528 C529	Miguel Guillermo Neumann	G631 G977
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Márcio Farias Soares	C525	Miguel Jose-yacaman	E560
Márcio José dos Reis	A603	Miguel Justino Ribeiro Barboza	C543 E550 J542
Márcio Luiz dos Santos	G530 G529	Miguel Melendez Lira	E543
Márcio Raymundo Morelli	I532 G732	Miguel Tafur	G844
Márcio Roberto Rocha	C528 C529	Milady Apolinário Silva	D618
Márcio Souza Goes	G522	Milena Emerenciano Luz Sabino	G568
Márcio Tadeu Pereira	H513	Milton Sérgio Fernandes de Lima	J515 J507 J508 J513 J518 J525 J533 J544 J510 J511 J516 J524
Márcio Teixeira Varella	G742	Miquel Salemeron	E551
Mário Ernesto Giroldo Valerio	H608 D607 G912 G940 G893	Mirabel Cerqueira Rezende	C649 G905 C593 D603
Mário José Artur	A538	Mirela Castro Santos	G650
Mário José Politi	A514	Mirela Moreira	I558
Mário Luiz Numes da Silva	L501	Miriam Susana Castro	E556
Mário Lúcio Moreira	G577 G579 G663 G683 G749 G823	Mirian de Lourdes Noronha Motta Melo	G793
Mário Roberto Meneghetti	G973 G974	Miryam Ricom Joya	G749
Mário Sérgio Galhiane	D559 D605	Mitiko Yamaura	G679
Mário Ueda	C575 C578	Mitzi Hass Wakamatsu	B532
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Máximo Siu Li	C530 G617 G836 G955	Mohini Sain	G827
Mehdi Zarea	E527	Moises M de Araújo	N515
Melânia Cristina Mazini	G951	Moises Meza Pariona	G799 D577
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Meri Domingos Vieira	D521	Momotaro Imaizumi	G509
Mervin Quinlan	E545	Monica de Mesquita Lacerda	C591 C592
Michael Adam	A513	Monica Scamardi Pinto Ramiro	G564
Michael Jaffe	G772	Monica Tirado	E525
Michael Jones da Silva	G785	Monise Casanova	F526 F527
Michael Ramos Nunes	G804 G858	Montyra Sriyai	B557
Michaela Wilhelm	A513	Morsyleide de Freitas Rosa	G809
Michel Evain	G601	Mônica Couto de Oliveira	B507
Michel Gonzalez Alcudia	E543	Mônica Cristina de Oliveira	H510 H513 H521
Michel Venet	I590	Murillo Longo Martins	G815
Michelangelo Durazzo	D572	Murilo Camuri Crovace	I561
Michele Aparecida Salvador	G688	Murilo Santhiago	F531
Michele Brandalise	F522	Murilo Teodoro Martinez	A594 F570
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Michelle Saltarelli	A574 A578 A579	Nadetsa R Tedesco	D560
Miguel A Nocak	G795	Nagib Francisco da Silva	D571
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Miguel Angel Camacho-lopez	E539	Naira Balzaretti	C598
Miguel Angel Ramirez	I572 E556 I576	Naira Canevarolo Pesquero	G535
Miguel Angel Rodriguez-perez	A521 A522	Naira Maria Balzaretti	G647 C600 G866
Miguel Angel Vicente	A515	Nancy Sandler	E527 E528 E535
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Nara Cristina de Souza	H587	Neyda Om Tapanes	G693
Narayanna Marques Ferreira	D534 D583 D602 D627	Neyde Tomazin Floreoto	B543
Natalia Mattar Cantagalli	G784	Nélio Henrique Nicoleti	G812
Nataly Machado Siqueira	H562	Nicholas Pieczonka	G840 E568
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Natália Ferreira Magalhães	H507	Nielson Fernando da Paixão Ribeiro	D503 D504 D506
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Natália Martins Moblicci	A529	Niklaus Ursus Wetter	G831
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Nathan e Nissley	M521	Nilson Dias Vieira Júnior	G549 G661
Nathan Newman	G518 G523	Nilton José Lucinda de Oliveira	C570
Nathália Fernandes Marcelo	G691	Nirton Cristi Silva Vieira	H602
Nayana Frizon	I598	Nito Angelo Debacher	N508
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Nágila Maria Pontes Silva Ricardo	A632	Noe Benjamin Pampa-quispe	B558
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Neide Aparecida Mariano	G728 C508	Nora H de Leeuw	G521
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Neidenei Gomes Ferreira	F504 G560 L513 G841 C648 F577 F589 F579	Norge Cruz Hernández	G521
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Nelcy Della Santina Mohallem	D548 D620 G641 D547 D515	Oberto Grangeiro da Silva	A539
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Nelson Henrique Morgan	G802	Odilón Vázquez-cuchillo	E566
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Nelson Orlando Moreno	D616	Olavo Rodrigues Oliveira	I501 I506
Neocir Silva	G710	Olga Ivanovna Zubarevich	F556
Neoli Lucyszyn	H597	Olga V Shcherbakova	D579
Nereu Victor Nazário Tenório	G973	Olga Zazuco Higa	A502
Nestor Emilio Massa	G833	Olivério Moreira Macedo Silva	C627
Nestor Henrique Carvalho Aguiar	C520	Olivia A Graeve	E501
Newton Barbosa Neto	G965	Olivier Uteza	J521
Newton Cesário Frateschi	G875 G773	Omar José Lima	A515
Newton Lindolfo Pereira	H607	Omar Oliveira Diniz Neto	J526 J528
Newton Luiz Dias Filho	A505 A510 A633	Ordovaldo Cordeiro Silva	G706
Newton Martins Barbosa Neto	G927	Orfelinda Avalo Cortez	E524
Newton Soares da Silva	C542 H610	Orlando Fatibello--filho	F552
Ney Amorim Silva	G501	Orlando Jose Rojas	H568
Ney Mattoso	F547	Ortiz Ojeda Valentina	E559
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Oscar Barcenas Sanchez	E565	Paula Haddad	G842
Oscar Endrigo Dorneles Rodrigues	A563	Paula Homem-de-mello	G662
Oscar Grizzi	E547	Paula Macarena Abdala	G938
Oscar Loureiro Malta	G561	Paula Martins da Silva	G894
Oscar Peitl Filho	C589	Paula Moraes Veiga	G822
Oscar Rubem Klegues Montedo	D574	Paulo Andrade Coutinho	B517
Oscarina da Silva Passos	K505 G727	Paulo Barbeitas Miranda	H508 G697 F594 G859
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Otavio Sakai	G907	Paulo César Soares Júnior	C578 C589 C608 C630
Otávio Bianchi	B556	Paulo Cordeiro Machado	G855 G727
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Pablo Andrade Grossi	B521	Paulo Emílio Valadão de Miranda	C503
Pablo Antonio Venegas	G694	Paulo Fernando Papaleo Fichtner	G548 L504 C553 L512 N511
Pablo Damasceno Borges	G567	Paulo Francisco Cesar	D565
Pablo Guillermo Gonzales-ormeño	G705	Paulo Gonçalves Junior	G957
Pablo Lacourt	D609	Paulo Henrique de Souza Picciani	H596 H618
Pablo Martins Belchor	G935	Paulo Henrique Leuteviler Pereira	G698
Pablo Roberto Rovani	D589	Paulo Jesus Costa Esteves	D545
Pablo Vizcaino	E514	Paulo Juliano Santos Prieto	G842
Pamela Knight	E506	Paulo Pereira Wendhausen	D599
Paola Alexandra Ayala	L503	Paulo Renato Oliveira	A508
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Patricia Hatsue Suegama	A501		G516 G535 G632 G586 G598 G626 G635 I564 I572 I576
Patricia María Frontini	C535	Paulo Roberto Bueno	
Patricia Mendonça Pimentel	D507	Paulo Roberto Dantas Marangoni	I608
Patricia Silva Gonçalves de Mello	D521	Paulo Roberto Savassi-rocha	H510 H513
Patricio Lara	E544	Paulo Rodrigues da Costa Júnior	J547
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Patrick Richard Irvin	E552	Paulo Rogério Pinto Rodrigues	C622 C582
Patrick T Mather	E506 C515 C516	Paulo Sergio da Silva Junior	I541
Patrini Danielle Galiani	H501 H578	Paulo Sergio Herrmann	H572
Patrícia Alves da Silva	B517		
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Paulo Sérgio Pizani	J521 G565 G580 G581 G582 G613 G622 G627 G657 G668 G670 G675 G724 G749 G788 G789 G806 G838 G861 G926	Priscilla Vanessa Finotelli Priscyla Danielly Marcato Priscylla Alves Gondim Pulickel M Ajayan Qu Fanyao R Torres-martinez	H540 H584 H588 B566 H583 D556 D557 E519 G748 E566
Paulo Soares	C619	Rafael A Bini	A533
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Pavel Dorozhkin	N518	Rafael Barbosa Martins Nogueira	A632
Pedro Alejandro Orellana	E540	Rafael Bogado	M520
Pedro Alighery Silva Araújo	D531	Rafael Brufatto Vagliatti	D501
Pedro Berci Filho	A538	Rafael de Lima Oliveira	A541
Pedro Carlos de Oliveira	B535 B571	Rafael Di Falco Cossiello	G512
Pedro Castro-borges	E564	Rafael Drumond Mancosu	C640 C641
Pedro Gómez-romero	A617	Rafael Erlo	G715 G876
Pedro Henrique Benites Aoki	H514	Rafael Evangelista da Silva	A511
Pedro Henrique Suman	G914	Rafael Fernando Pires	G647
Pedro José Iunes	K517	Rafael Francisco Kutkoski	H537 H536
Pedro Kunihiko Kiyohara	G540	Rafael Gonçalves	B566
Pedro Lima Forster	A562	Rafael Gonçalves Oliveira	C508
Pedro Migowski	F583	Rafael Grande	G869
Pedro Muné Bandera	G771	Rafael Gustavo Torres Leal	C620
Pedro Parreira	G976	Rafael Henriques Longaresi	A592
Pedro Prieto	E541	Rafael Innocenti Vieira da Silva	D530
Pedro Rodrigues Jr	C579	Rafael Libanori	G663 G746 G673
Pericles Inacio Khalaf	N508	Rafael Longaresi	G688
Peter Jurgen Tatch	H553 K518 K515	Rafael Luiz Erlo	G555
Peter Lubomir Polak	C517	Rafael Mello	G687
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Petrus Santa Cruz	G937 G942 A627	Rafael Morgado Batista	I513
Phabyanno Rodrigues Lima	F530 F531	Rafael Oliveira Silva	G725
Philippe C. Oliveira	A609	Rafael Plana Simões	G694
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Pierre-yves Jouan	C511	Rafael Salomão	B532
Pietro Papa Lopes	F536	Rafael Silva	G673 L519
Pilar Hidalgo	G931	Rafael Vieira Camerini	C598
Piter Gargarella	J548	Rafael Vitor Niquirilo	F563
Polyana Alves Radi	C628 C549 C536 C544	Rafaela Cristina Sanfelice	H551
Prakriti Tayalia	J506	Rafaela da Silveira André	G749 G768
Prescila Glaucia Christianini Buzolin	G534 G792	Rafaela Garcia Sansevero dos Santos	B535
Prieto Pedro	E559	Rafaella Oliveira Nascimento	G596 A563
Priscila Alessio	E537	Rafaelle Bonzanini Romero	B519
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Priscila Anadão	A587		

Raigna Augusta Silva	G965	Renata Cristina Lima	G529 G530 G564 G614 G624 G715
Raimundo Nonato Barbosa Felipe	A608 C613	Renata Ferreira Lins	G872 G846 G847 G853
Raimundo Nonato da Silveira Junior	G735	Renata Fogaça	A591
Rakesh Singh	G523 G518	Renata Santos Pereira	G706
Ralph Chamberlin	G518	Renata Simão	F576
Raluca Savu	G516	Renata Uema Ribeiro	G842
Ramam Koduri	E559	Renata Vélez	E548
Ramon Kennedy Sousa Almeida	A622	Renato Baldan	M520
Ramón Cortés Paredes	C625	Renato Barbosa de Oliveira	G547
Rannier Marques Mendonça	D531	Renato de Castro Valente	E517
Raonei Alves Campos	C617 C618	Renato de Figueiredo Jardim	G540 G569 G587 G771
Raphael Fortes Marcomini	I515	Renato Galvão da Silveira Mussi	J524
Raquel Almeida Ribeiro	G764	Renato Garcia Freitas	F553 F554
Raquel Bras Vichessi	I609	Renato Luis Tâme Parreira	F541 F542
Raquel Mejía	E548	Renato Sanches Freire	G752
Raquel Milani	C600	Rene Anisio Paz	B515
Raquel Santos Mauler	B511 B529 B551 B517 B556	René Frank Vianna Brenes	C629
Raquel Silveira Borges	G817	René López Noda	I526
Raquel Trujillano	A515	Reyes David	E559
Raquel Varella Serapião	H621	Reynaldo Reyes	A596
Raul Charadia	C643	Rezende Gomes dos Santos	G781 G793
Raul Jose da Silva Camara Mauricio da Fonseca	G735	Régine Perzynski	G638 G740 G757
Raul Pereira Fregonesi	H511	Rémy Chapoulie	J523
Raul Rodrigues Mello	D589	Ricardo Aroca	J506 G840 G962
Raúl Ernesto Carbonio	E529	Ricardo Augusto Mascarello Gotardo	I535
Ray R Lapierre	E503 E525 G503	Ricardo Avila	E544
Rebeca Delatore Simoes	A521 A522	Ricardo Batista de Andrade	G781
Regina Celia Reis Nunes	C632	Ricardo Báfica	B576
Regina Keiko Murakami	G808	Ricardo Belchior Torres	G929
Regina Lélis de Sousa	A602	Ricardo Bof Oliveira	C611
Regina Simplício Carvalho	F574	Ricardo Bulcão Ferrari	M504
Reginaldo Mendonça Costa	A505 A510	Ricardo Cabrera Aguilar	E565
	I501 I504 I508 I509 I512 I514	Ricardo Consorte Oliveira	G607
Reginaldo Muccillo	I534 I547 I544 I566 I516 I520 I506	Ricardo de Freitas Cabral	D502
Reinaldo Ruggiero	G646	Ricardo Diego Torres	C608
Rejane Cristina Trombini Pereira	H533	Ricardo Elgul Samad	J521
Renaldo Tenório Júnior	G561	Ricardo F Aroca	E568
Renata Aquino	G640 G740 G757	Ricardo Floriano	F544
Renata Ayres Rocha	I533 I534	Ricardo Grau Crespo	G521
Renata Barbosa	B547	Ricardo H.r. Castro	G929 G931
Renata Carla Tavares dos Santos Felipe	A608 C613 D602	Ricardo Hidalgo Santim	L507
		Ricardo Luis Ribeiro	D509
		Ricardo Luis Tranquilin	G529 G874 G581

Ricardo Luiz Cavalcanti de Albuquerque Júnior	H571 J539	Roberto Rivelino Moreno	G511 G514
Ricardo Luiz Longo	G561	Roberto Rodrigues Ribeiro	G700
Ricardo Masetti Lobo	I553	Roberto Roman Koropecki	G502
Ricardo Meurer Papaléo	N511 C620	Roberto Rossato	I524
Ricardo Noboru Igarashi	G741	Roberto Tomasi	D560
Ricardo Oliveira Júnior	G719	Roberto Wa Franco	G898
Ricardo Peixoto Suassuna Dutra	D531	Roberto Willyan Ramon	F519 F518
Ricardo Rodrigues Dias	F519	Roberval Stefani	G671 G738 G766
Ricardo Schneider	A627 G942 G937	Robson Américo de Barros	G623
Ricardo Silva Braga	K504	Robson Fernandes Farias	A598
Ricardo Silveira Nasar	D603	Robson Lopes Grosso	I527
Ricardo Sis Moreira	G875	Robson Pacheco Pereira	G527 G528 B520 G719
Ricardo Souza da Silva	G686 G795 G709	Robson Tadeu Soares de Oliveira Junior	F562
Ricardo Vinicius Bof de Oliveira	B517 B540 B551 B556 B541	Rodger Evans	E539
Ricardo Yoshimitsu Miyahara	I529 I546 I548 G828 A619	Rodinei Gomes Medeiros	D580 G832
Richard K Brow	E512 E546	Rodolfo Oscar Fuentes	G939 D619
Richard Landers	A584	Rodolpho Merlo Andrade	D594
Richard Wagner Novickis	G700	Rodriângela Conceição Rodrigues	A545
Rinaldo Gregório Filho	K501 K502 G562	Rodrigo Amorim Motta Carvalho	C638
Robert A Jackson	G940	Rodrigo B Capaz	N515
Robert C Snoeberger	E557	Rodrigo Cristiano	G691
Robert Luis Gonzalez Romero	I600 I602	Rodrigo de Matos Oliveira	D587
Robert Maxwell Mcmeeking	E513 C552	Rodrigo Dias	I503
Robert Snoeberger III	E502	Rodrigo Estevam Coelho	D545
Robert Vajtai	E519		G650 G621 G644
Roberta Alvarenga Isidoro	I568 N514	Rodrigo Fernando Bianchi	G645 A550 G677 A577 G648
Roberta Monteiro Mello	G978	Rodrigo Fernando Brambilla de Souza	F568 F571
Roberta Viana Ferreira	A581	Rodrigo Fernando Costa Marques	A533 H539
Roberto Alves Luz	F517	Rodrigo Fernando de Souza	F560 F562
Roberto Arce	G502	Rodrigo Fernando Marques	A531
Roberto Binder	C644	Rodrigo Fernando Pepino	B536
Roberto Bineli Muterle	H599	Rodrigo Gribel Lacerda	I540 G817 G979
Roberto Cucinelli Neto	B546	Rodrigo Guerreiro Fontoura Costa	H574 H575
Roberto da Rocha Lima	C637 C638	Rodrigo José Santos	I544
Roberto Eduardo Bruzetti Leminski	H552	Rodrigo Lassarote Lavall	G817
Roberto Fonseca Iannini	G760	Rodrigo Link Federizzi	G642
Roberto García	G536	Rodrigo Martins Oliveira	H569
Roberto Hubler	C540 C598 C568	Rodrigo Michelin Iost	F511, F526
Roberto J Avena-bustillos	H559	Rodrigo Parra	G516 G626 G786 E556
Roberto Koji Onmori	N517	Rodrigo Pinheiro da Silva	B541
Roberto Luiz Moreira	I553		
Roberto Manuel Torresi	F567		
Roberto Martins de Souza	C526 C633		
Roberto Masato Anazawa	G660		
Roberto Mendonça Faria	G688 A592 G859 F585		

Rodrigo Pinto Siqueira	D558	I523 I536 I538
Rodrigo Prioli	C507 C581	I542 I543 I569
Rodrigo Putvinskis	I584	I582 A581 I605
Rodrigo Ricabone Moradãs	D577	G756
Roger Rielh	D593	Rosana Zacarias Domingues
Rogéria Rocha Gonçalves	A520 F541	A598
Rogério Junqueira Prado	G939	Rosane Palissari
Rogério Machado	N510	K517
Rogério Magalhães Paniago	G979	Rosangela Maria Ferreira Basaglia
Rogério Manoel Biagi Moreno	H501 H578	I582
Rogério Moraes Oliveira	C514	Rosario Elida Suman Bretas
Rogério Paniago	H521	J514 B508 B534
Rogério Valaski	G859 F585	Rosângela Maria Ferreira
Rohit Khanna	C650	I543
Rolando Larico Mamani	G759	Rose Marie Belardi
Roman Alvarez Roca	I581	G756 I605
Romel Menezes Araujo	G912 G940	Rose Nely Pereira Filho
Romeu Casarano	A551 G772	J539
Romina Paula de Castro Costa Statuti	C549 C536	Roseane N Diniz
Romulo Tenorio	H538	G682 G685 G687
Ronald Lesley Plaut	M501 K503	Roseli de Conti
Ronald Ziolo	E555	H583
Ronaldo Censi Faria	G632	Roseli Kunzel
Ronaldo Domingues Mansano	C517 C534 G616 C531	H545
Ronaldo Franco de Oliveira Cardoso	H570	Rosemeire Brondi Alves
Ronaldo Santos da Silva	D535 D606 D607	H529
Ronaldo Sergio de Biasi	G589	Rosiros Deliza
Ronaldo Timm	H617	H598
Ronalt Marcelino Oliveira	G731	Rossana Mara da Silva Moreira Thiré
Rondes Ferreira Silva	A605	B553
Rondinelli Donizetti Herculano	H601	Rossano Gimenes
Rosa Di Felice	F535	D618
Rosa Helena Luchese	H600	Rossimiriam Pereira de Freitas
Rosa Maria Marinho	G838	H529
Rosa Maria Medeiros Marinho	G807	Rovilson Gilioli
Rosa Maria Rabelo Junqueira	M511	H609
Rosa Maria Rocha	D511 D527	Rozeli Filomena de Oliveira
Rosa Maria Souto-maior	B567	J534
Rosa Maria Vercelino Alves	B508	Ródnei Abbaide Abreu
Rosalva Santos Marques	A635	G747
Rosamaria Wu Li	G588	Rômulo Simões Angélica
Rosana Maria Nascimento de Assunção	A503 G959	A589
Rosana Vilarim Silva	G701 G961	Rubens Bernades Filho
		H524
		Rubens Caram Junior
		L521 M523
		Rubens Fernando Rezende
		J537
		Rubens Maciel Filho
		B502 J503 J505
		Rubens Maribondo Nascimento
		D513 D531
		J507 J508 J513
		J516 J532 J533
		J543 J544
		Rudimar Riva
		B522
		Rudinei Fiorio
		J528 J526 J548
		Rui Vilar
		Rurik Galimberti Peixoto de Abreu
		A588
		Rusiene Monteiro Almeida
		G974 G973
		Ruth Herta Goldschimidt Aliaga Kiminami
		I532 I607
		C524 C525 C527
		C533 K511 K516
		S P Bruhl
		C643
		S X Dou
		D579
		Sabrina Barros Nabuco de Araújo
		B512
		Sabrina Nunes Vieira
		G652 G731
		Saida Ortiz-colón
		E555
		Salmo Moreira Sidel
		G906 G907
		Salvador Alegret
		F505

Salvador Claro Neto	G698 C607	Sergio e Ulloa	E528 E535
Samara Melo Valcacer	D628	Sergio Henrique Leal	G592
Samoel Mirachi	J543	Sergio Luiz Mineiro	D550 D587
Samuel Amboni Duminelli	D523	Sergio Mazurek Tebcherani	G876 G830
Samuel Machado Leal da Silva	G972	Sergio Medeiros Santos	C635
Samuel Marcio Toffoli	G828	Sergio Mejia-rosales	E560
Samuel Tadeu de Paula Andrade	I569	Sergio Oliveira	G884
Sandeep Chandril	E507 E563	Sergio Ribeiro Teixeira	F583 F584
Sandra Andréia da Silva	G587 I591	Sergio Ricardo de Lazaro	G830 G876
Sandra Cristina Ramos	F577 C648	Sergio Roberto Mortari	G596
Sandra da Silva Marins	I597	Sergio Toshio Fujiwara	F587
Sandra Goulart Santos	C640 C641	Severino Jackson Guedes Lima	G872 G787 G807 D580 G832 G838 G849 G847 G850 G852 G856 G860 G870 G911
Sandra Helena Messaddeq	C530	Sérgio Antonio Marques Lima	G522
Sandra Helena Pulcinelli	D541 A566 D549 A573	Sérgio Antonio Romero	N506
Sandra Regina Masseto Antunes	C582 G909	Sérgio Antonio Spinola Machado	F559
Sandra Regina Rissato	G625	Sérgio Bertazzo	G716
Sandra Tessutti Dias	G836	Sérgio Francisco Aquino	H560
Sandro Galisteu Luiz	I558	Sérgio Henrique Leal	G594
Sandro Luiz Barbosa	A590	Sérgio Luis Mineiro	D610 C627
Sandro Márcio Lima	H603	Sérgio Mergulhão	G744
Sanjeeviraja Cs	C584	Sérgio Neves Monteiro	G654
Santiago Camacho-lopez	E539	Sérgio Souza Camargo Jr	C588 C606 C629 C630
Santiago Ceron Gutierrez	E543	Sérgio Stefano Guerreiro	J524 J533
Santiago José Figueroa	E551	Sérgio Tonini Button	L501
Sara Aida Rodriguez Pulecio	C633	Sérgio Tonzar Ristori Ozaki	N509
Sara Verusca de Oliveira	G563	Sharvari H Dalal	N513
Sarah Isabel Alves	G831	Shaun Miller	C516
Saulo Cordeiro Lima	C524 C533	Shay Reboh	G548 L504
Sayonara Andrade Eliziário	G545 G546 G723 G729	Sheila Bernhard Galvao	D621
Sebastião Gomes dos Santos Filho	G539 F503 G956	Shirley Cosin	D601
Sebastião William da Silva	D622 G730	Shirley Leite dos Reis	I511
See Chen Ying	G559	Shirley Nakagaki	A507
Segundo Nilo Mestanza Muñoz	G773 G875	Shirley Possidonio	N517
Seila Silva Rojas	A550	Shirley Santana Silva	G696
Ser M Tebcherani	G683	Shu Hui Wang	G968
Sergey Sergenkov Ushakov	I566 G917	Sidnei José Buso	M504
Sergio Aaron Gamboa	E530	Sidnei Ramis Araújo	L522
Sergio Akinobu Yoshioka	F569	Sidney Dorta de Oliveira	I510
Sergio Antonio Romero	G639	Sidney José Lima Ribeiro	A503 A531 A567 D585 A609 G963 A520 B573
Sergio Antonio Spinola	F513	Signo Tadeu dos Reis	D505
Sergio Augusto Catanzaro-guimarães	H601	Silma Alberton Corrêa	C541
Sergio Brochsztain	A636	Silmar Travain	F526
Sergio Camargo	C581		
Sergio de Lazaro	G555		

Silmara Cristina Baldissera	G703	Stephan Kraemer	E538
Silvana da Dalt	A642	Stênio Perdigão Fragoso	H603
Silvana Garcia Viana	D580 G832	Subramanian Tsp	C584
Silvana Lanfredi	I527 G678 G897 G903	Sueli Maria Drechsel	A507
Silvanna Leite de Albuquerque Maranhão	A623	Suellen Maria Valeriano Novais	D606
Silvia Beatriz Uchoa	G629	Suélen Harumi Takahashi	F550
Silvia Helena Santagnelli	D585	Suresh Kuiry	C571
Silvia Letícia Fernandes	D605 D559	Susana Adelina Larrondo	D619
Silvia Luciana Fávaro	M503 G593	Susana Alcira Liberman	B511 B529 B551
Silvia Stanisquaski Guterres	H562	Susana Inés Córdoba de Torresi	F538 F550 F557 F567
Silvio Buchner	C589	Suzana Bottega Peripolli	M516 G808 F576
Silvio David Rodriguez	A514	Suzana Nóbrega de Medeiros	D589 D590
Silvio L R da Silva	C594 C597	Svetlana Viacheslavovna Golovataya	F556
Silvio Rainho Teixeira	D566 A611	Syed Imam	G809
Simone Benvenuti Leite	H548 H549	Sylvia Mendes Carneiro	A519
Simone Maria Leal Rosa	G944	Sylvio Dionysio de Souza	C550 C564
Simone Rodrigues Ribeiro	C506	Taciana Regina Gouveia	B516
Simone Santos Afonso	B571	Taciâne P Costa	H539 A533
Simoni Margareti Plentz Meneghetti	G974 G973	Tadeu Antônio Azevedo Melo	D580 G832
Simoni Maria Gheno	I532	Taekwoong Chung	E506 C516
Sinara Borborema Gabriel	C615	Taís Garcia Moreira	N517
Sirlaine Diniz Ferreira Brandão	G913	Takahiro Onimaru	G764
Sirlon Mata	C525	Taku Matsuzaka	F529
Sílvia Stanisquaski Guterres	H556 H581	Talita Cristiane Maganha	G517
Sílvia Tamborim Takeuchi	A585	Talita Guieiro Ribeiro Rocha	H521
Sky Macário	G973	Talita Mazon	I579 I595
Solange Binoto Fagan	H545	Tamara Martins	G636 G637
Solange Binotto Fagan	G596	Tania Maria Haas Costa	A535
Solange de Souza	C550 C564	Tania Regina Giraldi	H511
Song Won Park	H568	Tapani Viitala	H555 H508 H502
Sonia Letichevsky	L524	Tapio Ala-nissila	G559
Sonia Lícia Baldochi	G878 G893 G928	Tara H Mchugh	H559
Sonia Maria Zanetti	I530 I591	Tarso Benigno Ledur Kist	A535
Sonia Ramos Vasconcelos	D617 K521	Tatiana Borges Skaf	B505
Sonia Tomie Tanimoto	F559	Tatiana Cristina de Oliveira Mac Leod	A635
Soraia Carvalho de Souza	G852 G856 G860	Tatiana Duque Martins	G691
Soraia Carvalho Souza	G847 G872	Tatiana Mazzo	G635
Soraia Zaioncz	B542 B545 B577	Tatiâne Cordeiro Rodrigues	B575
Sossina Haile	I519	Tatiâne de Fátima Pineiz	G796 G824
Sônia Couri	H561	Tatiâne Moraes Arantes	B526 B527
Sônia Maria Malmonge	G791	Tatsuo Goko	E511 E510
Sônia Marlí Bohrz Nachtigall	G920 G923 G944	Taysa Cristina de Oliveira	G570
Stanislav A Moshkalev	G720	Tábata Tomaz Quevedo	G978
Stanley Endrigo Bilatto Rodrigues	I608	Tânia Beatriz Creczynski-pasa	F552
Stela Maria Carvalho Fernandes	C509	Tânia Machado Benedetti	F567

Tânia Maria Costa	A585	Tito Trindade	B561
Tânia Regina Giraldi	H543 G659	Tomas Alves Melo	B515 B516
Telma Nagano Moura	G656 G718	Tomas Erikson	G734
Tercio Graciliano Machado	D621	Tomas Trebicky	E547
Tereza Cristina de Farias Guimarães	G829 G887	Tomaz Manabu Hashimoto	G660
Tereza Dib Atvarz	G512	Tomás Alves Melo	B547
Tereza Silvia Martins	G752	Toshiro Takabatake	G764 G634
Terezinha Elizabeth Mendes de Carvalho	G679	Travis Williams	E510
Terezinha Jocelen Mason	D561	Tsuneharu Ogasawara	D614 I597
Tetunori Kajita	D546	Tuane Porto da Silva	G798 G804
Tércio Graciano Machado	D583 D600 D602 D628 D627	I523 I538 I542 I543 I569 I582 I605 G756 I536	
Thaciana Valentina Malaspina	G511 G514	Ubirajara Pereira Rodrigues Filho	A508 A527 F565 H587
Thais Fernandes Schmidt	H504	Udo Fritsching	D623
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Thais Nogueira Goncaga	G709	Uílame Umbelino Gomes	
Thaís Regiani	A531	Ulf Schuchardt	H599
Thaís Mary Carvalho	F502	Ulissandra Ribeiro Lima	D603
Thales Ladeira Fonseca	I536	Ulrike Werner Werner Zwanziger	E516
Thalita França de Toledo	G568	Ursula Fabiola Rodríguez-zúñiga	H561
Tharsia Cristiany de Carvalho Costa	D531 B543	V. Bykov	N518
Thatyane Morimoto Nobre	H502 H534 H541	Vaclav Petricek	G601
Thays Cristina Fernandes dos Santos	G968	Vagner Bernal Barbeta	G540
Thiago Alegre	E552	Vagner dos Santos	F587
Thiago Alexandre Assunção	D505	Vagner Roberto Botaro	G692
Thiago Augusto Pacheco Tavares	K505 G818 G855	Vagner Romito de Mendonça	G659
Thiago Duarte Chaves	F564	Valbert Nascimento Cardoso	H513
Thiago Henrique Rodrigues da Cunha	F574	Valberto Pedruzzi Nascimento	G844
Thiago Lima Burgo	G716	Valdeci Bosco dos Santos	I525
Thiago Martini Pereira	J545	Valdecir Berceli	A607
Thiago Oliveira	G915	Valdemir dos Santos	G592
Thiago Sequinel	G876	Valdemir Ludwig	G747
Thiago Teixeira Tasso	A549	Valderes Drago	A524 A534
Thiers Massami Uehara	F594	Valdir Mano	H614 A635
Thomas Chudoba	C645	Valdirene Aparecida Silva	D603
Thomas H Myers	E507 E563		I510 I518 I524
Thomas Peter	E546	Valdirlei Fernandes Freitas	I529 I546 I548 I567 I578 A619
Thomas Witten	E504	Valeria Muñoz	A615
Tiago Carvalho Martins	G801	Valerie Briois	D541
Tiago Cordeiro de Oliveira	D616	Valeska da Rocha Caffarena	G762 G763
Tiago de Góes Conti	G725 G746 L519	Valéria Batista Nunes	B525
Tiago Ornelas	C641	Valéria Cristina Fernandes	G598 F549
Tierri Engel	L504		
Tito José Bonagamba	G512 A504		

Valéria Moraes Longo	G549 G579 G604 G661 G715 G830 G898 G608 G565	Victor Jayme Roget Rodriguez Pita	A597 B558
Valéria Spolon Marangoni	F526 F527	Victor Luiz da Silva Maia	I592
Valmor Roberto Mastelaro	G554 I525 G661 I557 L510	Victor Manuel Fuenzalida	L516
Valquíria Villas-boas	G808	Victor Pita	B575
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Valtencir Zucolotto	H555 F587 H605 F511 H541 F526 F526 F508	Victor Solano Reynoso	G649
Valter José Fernandes Jr	A636	Vijayendra Kumar Garg	D622 A629
Vanderlei Salvador Bagnato	J536	Vilma da Conceição Costa	D509
Vanessa Baldissarelli	N508	Vinicius André Rodrigues Henriques	D555 D558
Vanessa Bongalhardo Mortola	G842	Vinicio Cappellano de Franco	G808
Vanessa Cristina Gonçalves	G590 G591 G610	Vinicio Galhard Grassi	M518
Vanessa Luz Calil	A614	Vinicio Guilherme Celante	F524 F525
Vanessa Orsi Gordo	G906 G907	Vinicio Muller	G593
Vanessa Prévot	A603	Vinicio Nonato Bezzon	G941
Vanessa Roberta Cunha	A552	Vinicio Rodrigues Henriques	E515 D519
Vania Cardoso Fernandes	G662	Vinicio Romero Gonçales	F557 F567
Vania Regina Velloso Silva	C590	Vinicio Rosa	D565
Varghese Swamy	N510	Vinícius André Henriques	E550
Vatencir Zucolotto	H516	Virginie Lair	I560 I606
Vânia Blasques Bueno	G655	Vito Lyrio Valle	F569
Vânia Caldas Sousa	A642	Vitor Baranauskas	G760
Vânia da Silva Vieira	M519	Vitor Brait Carmona	H569
Vânia Maciel Melo	B509	Vitor César Dumont	A638
Vânya Márcia Duarte	D582	Vitor de Moraes Zamarión	A591
Vera Lucia Mazzocchi	G878	Vitor Diego Lima Silva	G824
Vera Lucia Mores	D554	Vitor Félix Silva	G978
Vera Lucia Othero Brito	I603	Vitor Garcia Moreno de Oliveira	J539
Vera Lúcia Silva Augusto Filha	A621 A622	Vitor Renaux Hering	A514
Vera Regina Leopoldo Constantino	A530 A552 A558A567	Vitor Rodrigo Melo	G853 G848
Veronica Corral Flores	E555	Vitor Zaia	B530
Verônica Dionisio de Lima	B545	Viviane do Espírito Santo Souza	A608
Verônica Zéa Bermudez	A520	Viviane Faria Soares	D620
Vicene Alonso Rodrigues	D561	Viviane Lemo	H561
Vicente Fiorini Stefani	G866	Viviane Oliveira Soares	C589
Vicente Sousa Marques	G594	Viviane Pereira Goulart	J545
Victor Alvarenga Oliveira	G692	Viviane Pilla	H519
Victor Anthony García Rivera	G917	Vladimir Costa Silva	F508
Victor Bertucci Neto	H561 B536	Vladimir Henrique Baggio-scheid	C543
Victor Ciro Solano Reynoso	G952 G953 A611 J547 G970 B554	Vladimir Jesus Trava-airoldi	C536 G643 C542 C544 C547 C617 C618 H610 C631 G845 C628 C549
Victor Dmitriev	G801	Wagner Anacleto Pinheiro	G702
Victor Hugo Sarmento	A501	Wagner da Silveira	D599
Victor Hugo Vitorino Sarmento	D549		

Wagner de Rossi	J511 J518 J520 J521 J538 J549 J537	Wesley Rubin	G967
Wagner Fernando Angelotti	G885	Wido Herwig Schreiner	F547
Wagner Lopes Torquato	D528 D529 D570	Wildor Theodoro Hennies	B568
Wagner Luiz Polito	B573	Wilam Regone	L501
Wagner Soares Alencar	F516	Wilker Caetano	H514
Waldek Wladimir Bose Filho	G531	William Chueh	I519
Waldemar Alfredo Monteiro	M504 G700 D561 D567	William Ferreira Alves	H572
Waldemar Augusto de Almeida Macedo	G873	William I Milne	N513
Waldir Avansi Junior	L510	William J Orts	H558
Walison Arthuso Vasconcellos	A581	William Junior Nascimento	D542
Walker Soares Drumond	G536 A551 G653 G656 G718	William Melo Silva	F504
Walkimar Mesquita Carneiro	G533 G712 G892	William Orts	H618 G809
Walter Brito	D515 G784 G641	Willian Alayo	G844
Walter Elias Feria Ayta	G820	Willian Campos Ribeiro	G586 I564 I576
Walter Israel Cabrera	G536	Willian Eliseu	G675
Walter Jaimes Salcedo	F586 G880 G881	Willian Junior Nascimento	K509
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Walter Katsumi Sakamoto	G532 G819 G791	Willy Glen Santos	G977
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