X Brazilian MRS Meeting

Program Book

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September 25-29, 2011

10 YEARS OF THE BRAZILIAN MRS (SBPMat)

Dear colleagues and SBPMat members,

The Brazilian Materials Research Society (SBPMat) is celebrating 10 years of existence. During this period, our society has been increasingly recognized in Brazil and abroad. We are now a member of the International Union of Materials Research Societies (IUMRS). Thanks to the support from the community and its scientific leaderships, our success can be credited to the high scientific and technological level of the annual meetings, which are becoming increasingly visible in the international scenario and attracting attendance from all over the planet.

The main objective of the Society is to congregate materials scientists from all areas, in order to stimulate and synergize the development of knowledge and its transfer to the society. For this sake, it is very important to continuously consolidate the SBPMat, improving its infrastructure and enhancing the support for workshops and meetings.

We are now starting our 10^{th} meeting, held September 25-29^{th} in Gramado-RS. We expect a massive participation of the Brazilian MRS community. This meeting, with its special symbolic character of the SBPMat 10^{th} anniversary, is also an opportunity to re-evaluate our actions and suggest new directions in materials research and technology. The engagement of all the community members is very important to support the SBPMat goals and improve its contribution to such interdisciplinary and strategic area so needed for the economical, social and ecologic growth of Brazil.

José Arana Varela

SBPMat President

WELCOME TO THE MEETING

Dear Participants,

Following its traditional format, the 2011 Brazilian Materials Research Society meeting, held on September 25-29 in Gramado - RS, features 16 dedicated **Symposia** involving a series of topics comprising Materials for Energy and Sustainability, Organic and Bio-Materials, Structural Materials, Electronic, Photonic and Spintronic Materials, as well as a symposia containing only poster contributions on General Materials Science. The meeting congregates about 1400 participants and has more than 1850 accepted abstracts.

To complement the symposia sessions, the program includes nine **Plenary Lectures** presented by world renowned specialists. In addition, the **Exhibit** brings showcase products and instruments of interest to the materials community, and three dedicated **Tutorial Courses** on Materials Investigation using Synchrotron Radiation are offered upon previous subscription.

The Brazilian Materials Research Society (**SBPMat**) staff and board, the hired agencies, the Local and National Scientific Committees and the Symposium Organizers have done a great effort to organize the meeting.

On behalf of this team, we welcome you in the city of Gramado, with its pleasant mountain environment, wishing to accomplish an interesting meeting, stimulating the exchange of scientific information and inspiring new ideas and collaborations.

Paulo F. P. Fichtner and Naira M. Balzaretti

Meeting Chairs

ORGANIZING COMMITTEE

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Naira M. Balzaretti - UFRGS – RS

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Ricardo M. Papaleo (PUC-RS)

CONTENTS

VENUE

Gramado

Estimated population: 31.655 (IBGE, 2007)

Area of territorial: 237 Km²

Altitude: 885m

Colonization: Italian and German Immigrants

Placed in the heart of the Region of Hortênsias, the town was set up to be a touristic polo with the Best business and pleasures in the sector. As a consequence Gramado earned more investments that added to its natural beauty and structure a potential that surprises the people who still do not know the place.

With its fame and prestige, attracts visitors, confirms a high index of satisfaction – more than 90%. A consensus of loyalty that only few places have.

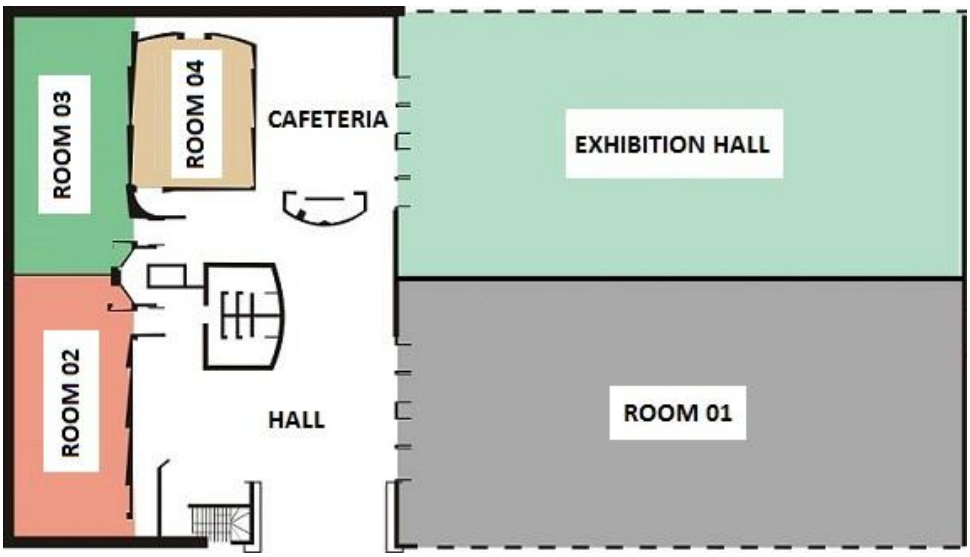
Gramado is that way, so special, unique, that seems a sin not to visit it.

The Meeting will take place at UFRGS Conference Center located at Rua São Pedro, 663 (see Map # 19).

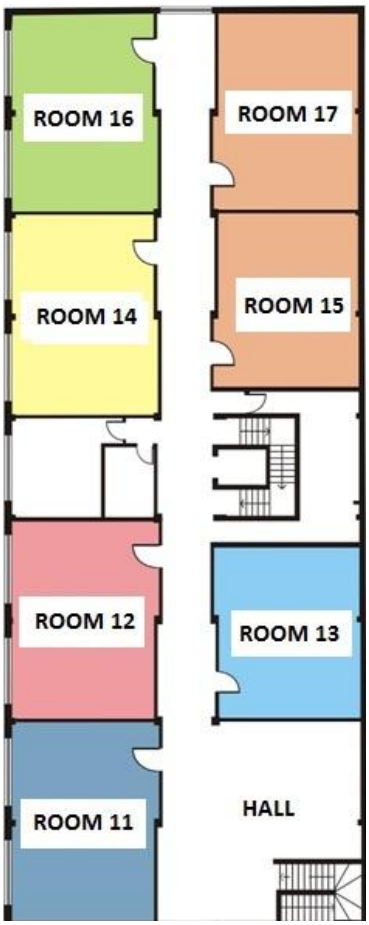
GRAMADO CITY MAP

SITE MAP

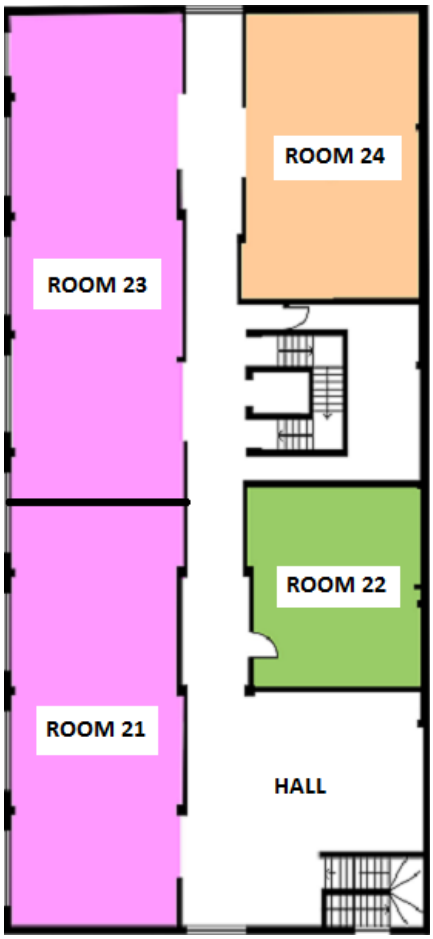
GROUND LEVEL (0)



FIRST FLOOR (1)



SECOND FLOOR (2)



GENERAL SCHEDULE

	25/09 Sunday	26/09 Monday	27/09 Tuesday	28/09 Wednesday	29/09 Thursday
08:30 – 09:25h (50+5 min.)		**Plenary Lecture 1**	**Plenary Lecture 4**	**Plenary Lecture 5**	**Plenary Lecture 8**
09:30 – 10:30h **Symposia** (inv=25+5) (oral=12+3)		Inv 9:30-10:00 Oral 10:00 – 10:15 Oral 10:15 – 10:30	Inv 9:30-10:00 Oral 10:00 – 10:15 Oral 10:15 – 10:30	Inv 9:30-10:00 Oral 10:00 – 10:15 Oral 10:15 – 10:30	Inv 9:30-10:00 Oral 10:00 – 10:15 Oral 10:15 – 10:30
10:30 – 10:55h		Coffee Break (25 min)	Coffee Break (25 min)	Coffee Break (25 min)	Coffee Break (25 min)
11:00 – 12:30h **Symposia** (inv=25+5) (oral=12+3)		Inv 11:00-11:30 Oral 11:30 – 11:45 Oral 11:45 – 12:00 Oral 12:00 – 12:15 Oral 12:15 – 12:30	Inv 11:00-11:30 Oral 11:30 – 11:45 Oral 11:45 – 12:00 Oral 12:00 – 12:15 Oral 12:15 – 12:30	Inv 11:00-11:30 Oral 11:30 – 11:45 Oral 11:45 – 12:00 Oral 12:00 – 12:15 Oral 12:15 – 12:30	**Plenary Lecture 9** 11:00 – 12:00h **12:00h Awards** **12:30h Closing**
12:30 – 14:00h		Lunch	Lunch	Lunch	
14:00 – 14:55h (50+5 min.)		**Plenary Lecture 2**	**Poster section** Coffee Break **Exposition** 14:00-16:00h	**Plenary Lecture 6**	
15:00 – 16:00h **Symposia** (inv=25+5) (oral=12+3)	14:00 – 19:00h **registration**	Inv 15:00-15:30 Oral 15:30-15:45 Oral 15:45-16:00		Inv 15:00-15:30 Oral 15:30-15:45 Oral 15:45-16:00	
		Poster section Coffee Break **Exposition** 16:00 – 18:00h		**Poster section** Coffee Break **Exposition** 16:00 – 18:00h	transfers to Porto Alegre
18:00 – 19:00h		**Plenary Lecture 3** 18:00 – 19:00h		**Plenary Lecture 7** 18:00 – 19:00h	
19:00 – 19:30h	**Opening**		Free		
19:30 – 20:25h	**Memorial Lecture Joaquim Costa Ribeiro**				
20:30h	**Cocktail**		Celebration **10 years of SBPMat**		

26/09/2011 –Monday																	
8:30 - 9:30h	**PLENARY LECTURE 1–Prof. Jim de Yoreo – "Physical Insights into Nature´s Way of Making Materials"**																
SYMPOSIA Room		**A 21**	**B 04**	**C 16**	**D 03**	**E**	**F 02**	**G**	**H 17**	**I 23**	**J**	**K 24**	**L 01**	**M 12**	**N 13**	**O 22**	**P 11**
ORAL SESSION 1 09:30 – 10:30h	09:30 – 09:45	A1.1	B1.1	C1.1	D1.1		F1.1		H1.1	I1.1		K1.1	L1.1	M1.1	N1.1	O1.1	P1.1
	09:45 – 10:00	Invited	Invited	Invited	Invited		Invited		H1.2	Invited		Invited	Invited	Invited	Invited	Invited	Invited
	10:00 – 10:15	A1.2	B1.2	C1.2	D1.2		F1.2		H1.3	I1.2		K1.2	L1.2	M1.2	N1.2	O1.2	P1.2
	10:15 – 10:30	A1.3	B1.3	C1.3	D1.3		F1.3		H1.4	I1.3		K1.3	L1.3	M1.3	Invited	O1.3	P1.3
10:30 – 10:55h	**Coffee Break**																
ORAL SESSION 2 11:00 – 12:30h	11:00 – 11:15	A2.1	B2.1	C2.1	D2.1		F2.1		H2.1	I2.1		K2.1	L2.1	M2.1	N2.1	O2.1	P2.1
	11:15 – 11:30	Invited	Invited	Invited	D2.2		Invited		H2.2	Invited		Invited	Invited	Invited	Invited	Invited	Invited
	11:30 – 11:45	A2.2	B2.2	C2.2	D2.3		F2.2		H2.3	I2.2		K2.2	L2.2	M2.2	N2.2	O2.2	P2.2
	11:45 – 12:00	A2.3	B2.3	C2.3	D2.4		F2.3		H2.4	I2.3		K2.3	L2.3	M2.3	N2.3	O2.3	Invited
	12:00 – 12:15	A2.4	B2.4	C2.4	D2.5		F2.4		H2.5	I2.4		K2.4	L2.4	M2.4	N2.4	O2.4	P2.4
	12:15 – 12:30	A2.5	B2.5	C2.5	D2.6		F2.5						L2.5		Invited	O2.5	P2.5
12:30 – 14:00h	**Lunch**																
14:00 - 15:00h	**PLENARY LECTURE 2 – Prof. Harry Tuller – "Strategic Materials in the Quest to Solve the Energy Crisis"**																
ORAL SESSION 3 15:00 – 16:00h	15:00-15:15	A3.1	B3.1		D3.1		F3.1			I3.1		K3.1	L3.1	M3.1	N3.1	O3.1	P3.1
	15:15-15:30	Invited	Invited		D3.2		F3.2			Invited		Invited	L3.2	Invited	Invited	O3.2	Invited
	15:30-15:45	A3.2	B3.2		D3.3		F3.3			I3.2		K3.2	L3.3	M3.2	N3.2	O3.3	P3.2
	15:45-16:00	A3.3	B3.3		D3.4		F3.4			I3.3		K3.3	L3.4	M3.3	N3.3	O3.4	Invited
16:00 – 18:00h	**POSTER SECTION 1 Coffee Break Exposition**																
18:00 - 19:00h	**PLENARY LECTURE 3 – Dr. Marcus Freitag – "Graphene Optoelectronics"**																

27/09/2011 –Tuesday																	
8:30 - 9:30h	**PLENARY LECTURE 4 – Prof. Paulo P. Freitas – "Spintronic Microsystems: from Lab on Chip to MEMS Applications"**																
SYMPOSIA Room		**A 21**	**B 04**	**C 16**	**D 03**	**E**	**F 02**	**G**	**H 17**	**I 23**	**J**	**K 24**	**L 01**	**M 12**	**N 13**	**O 22**	**P 11**
ORAL SESSION 4 09:30 – 10:30h	09:30 – 09:45	A4.1	B4.1	C4.1	D4.1		F4.1		H4.1	I4.1		K4.1	L4.1	M4.1	N4.1	O4.1	P4.1
	09:45 – 10:00	Invited	Invited	Invited	Invited		Invited		H4.2	Invited		Invited	Invited	Invited	Invited	Invited	Invited
	10:00 – 10:15	A4.2	B4.2	C4.2	D4.2		F4.2		H4.3	I4.2		K4.2	L4.2	M4.2	N4.2	O4.2	P4.2
	10:15 – 10:30	A4.3	B4.3	C4.3	D4.3		F4.3		H4.4	I4.3		K4.3	L4.3	M4.3	N4.3	O4.3	P4.3
10:30 – 10:55h	**Coffee Break**																
ORAL SESSION 5 11:00 – 12:30h	11:00 – 11:15	A5.1	B5.1	C5.1	D5.1		F5.1		H5.1	I5.1		K5.1	L5.1	M5.1	N5.1	O5.1	P5.1
	11:15 – 11:30	Invited	Invited	Invited	D5.2		Invited		H5.2	Invited		Invited	Invited	Invited	Invited	Invited	Invited
	11:30 – 11:45	A5.2	B5.2	C5.2	D5.3		F5.2		H5.3	I5.2		K5.2	L5.2	M5.2	N5.2	O5.2	P5.1
	11:45 – 12:00	A5.3	B5.3	C5.3	D5.4		F5.3		H5.4	I5.3		K5.3	L5.3	Invited	N5.3	O5.3	Invited
	12:00 – 12:15	A5.4	B5.4	C5.4	D5.5		F5.4		H5.5	I5.4		K5.4	L5.4	M5.4	N5.4	O5.4	P5.3
	12:15 – 12:30	A5.5		C5.5	D5.6		F5.5		H5.6	I5.5			L5.5	M5.5	N5.5	O5.5	P5.4
12:30 – 14:00h	**Lunch**																
14:00 – 16:00h	**POSTER SECTION 2 Coffee Break Exposition**																
16:00 - 20:30h	**FREE**																
20:30h	**CELEBRATION – 10 YEARS OF SBPMAT**																

28/09/2011 –Wednesday																	
8:30 - 9:30h	**PLENARY LECTURE 5– Prof. Terence G. Langdon– "Recent Advances in the Processing and Properties of Ultrafine-Grained Metals Using Severe Plastic Deformation"**																
SYMPOSIA Room		**A 21**	**B 04**	**C**	**D 03**	**E 22**	**F 02**	**G 12**	**H 17**	**I 23**	**J 16**	**K 24**	**L 01**	**M**	**N**	**O**	**P 11**
ORAL SESSION 6 09:30 – 10:30h	09:30 – 09:45	A6.1	B6.1		D6.1	E6.1	F6.1	G6.1	H6.1	I6.1	J6.1	K6.1	L6.1				P6.1
	09:45 – 10:00	Invited	Invited		D6.2	Invited	Invited	Invited	H6.2	I6.2	Invited	Invited	Invited				Invited
	10:00 – 10:15	A6.2	B6.2		D6.3	E6.2	F6.2	G6.2	H6.3	I6.3	J6.2	K6.2	L6.2				P6.2
	10:15 – 10:30	A6.3	B6.3		D6.4	Invited	F6.3	Invited	H6.4		J6.3	K6.3	L6.3				
10:30 – 10:55h	**Coffee Break**																
ORAL SESSION 7 11:00 – 12:30h	11:00 – 11:15	A7.1			D7.1	E7.1	F7.1	G7.1	H7.1	I7.1	J7.1	K7.1	L7.1				
	11:15 – 11:30	Invited			D7.2	Invited	Invited	Invited	H7.2	Invited	Invited	Invited	Invited				
	11:30 – 11:45	A7.2			D7.3	E7.2	F7.2	G7.2	H7.3	I7.2	J7.2	K7.2	L7.2				
	11:45 – 12:00	A7.3			D7.4	Invited	F7.3	G7.3	H7.4	I7.3	J7.3	K7.3	L7.3				
	12:00 – 12:15	A7.4			D7.5	E7.3	F7.4	G7.4	H7.5	I7.4	J7.4	K7.4	L7.4				
	12:15 – 12:30	A7.5			D7.6	Invited	F7.5					K7.5	L7.5				
12:30 – 14:00h	**Lunch**																
14:00 - 15:00h	**PLENARY LECTURE 6–Prof. Bruce Dunn – "The Design of Materials and Architectures for Capacitive Energy Storage"**																
ORAL SESSION 8 15:00 – 16:00h	15:00-15:15	A8.1			D8.1	E8.1	F8.1	G8.1			J8.1	K8.1	L8.1				
	15:15-15:30	Invited			D8.2	Invited	F8.2	Invited			Invited	Invited	L8.2				
	15:30-15:45	A8.2			D8.3	E8.2	F8.3	G8.2			J8.2	K8.2	L8.3				
	15:45-16:00				D8.4	E8.3	F8.4	G8.3				K8.3	L8.4				
16:00 – 18:00h	**POSTER SECTION 3 Coffee Break Exposition**																
18:00 - 19:00h	**PLENARY LECTURE 7 –Prof. Donald Bradley – "The Influence of Film Morphology in High-Mobility Organic Films: Polymer Blend Organic Transistors and Other Devices"**																

26/09/2011 –Thursday																	
8:30 - 9:30h	**PLENARY LECTURE 8 – Prof. Gary L. Messing – "Rare Earth-Doped oxide Ceramic Laser Gain Media – Processing, Properties and Challenges"**																
SYMPOSIA Room		**A 21**	**B**	**C**	**D**	**E 22**	**F**	**G 12**	**H**	**I**	**J 16**	**K**	**L 01**	**M**	**N**	**O**	**P**
ORAL SESSION 9 09:30 – 10:30h	09:30 – 09:45	A9.1				E9.1		G9.1			J9.1		L9.1				
	09:45 – 10:00	Invited				Invited		Invited			J9.2		L9.2				
	10:00 – 10:15	A9.2				E9.2		G9.2			J9.3		L9.3				
	10:15 – 10:30	A9.3				Invited		G9.3					L9.4				
10:30 – 10:55h	**Coffee Break**																
11:00 - 12:00h	**PLENARY LECTURE 9 – Prof. Edson Leite – "Better Nanomaterialsthrough Chemistry: Novel Strategies for the Synthesis of Metal Oxides Nanoparticles"**																
12:00 – 12:30h	**CLOSING**																

"School on Techniques for Materials Characterization with Synchrotron Radiation"

Monday	16:00 – 19:00
Tuesday	15:00 – 18:00
Wednesday	15:00 – 18:00

Courses:	i) X-ray absorption fine structure (XAFS)	Room 13
	ii) Small angle X-ray scattering and X-ray reflectometry	Room 14
	iii) Short course on the Rietveld method	Room 15

Poster Presentations (Exhibition Hall)																
SYMPOSIA	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**	**K**	**L**	**M**	**N**	**O**	**P**	**Q**
SP1 **Monday** **16:00 – 18:00h**	✓	✓	✓	✓		✓					✓	✓		✓	✓		
SP2 **Tuesday** **14:00 – 16:00h**	✓	✓		✓		✓			✓		✓	✓	✓			✓	
SP3 **Wednesday** **16:00 – 18:00h**				✓	✓	✓	✓	✓	✓	✓		✓					✓

TECHNICAL SCOPE

SYMPOSIUM A - Magnetic and Superconducting Materials

The symposium is intended to bring togheter scientists and engineers interested in all aspects of experimental and theoretical research in magnetic and superconducting materials, as well as in their technological applications. Contributions are expected in topics ranging from basic properties to recent developments in magnetism and superconductivity at nanoscale. Emphasis will be given on new materials, properties and devices.

Participants are invited to submit abstracts related to the topics listed below. Contributions in other areas of magnetism and superconductivity will also be considered.

- Fundamental magnetic properties
- Hard and soft magnetic materials and applications
- Disordered magnetic materials
- Magnetocaloric materials
- Multiferroics
- Magnetic semiconductors; magnetism in carbon-based materials
- Magnetism in nanoparticles, nanowires, films, multilayers and other nanostructured materials ; molecular magnetism
- Exchange bias
- Magnetization dynamics and micromagnetism
- Spintronics in metals and semiconductors; spin dependent transport
- Applied magnetism and instrumentation; biomedical applications
- Magnetic recording
- Low-Tc superconductors
- Cuprate and iron-pnictide superconductors
- Interaction between magnetism and superconductivity

SYMPOSIUM B - Biodegradable Polymer Materials

The symposium will cover ongoing research in biodegradable polymeric materials for coating, packaging, automotive, medical and other related applications. Non-degradable polymeric waste has become a global concern in terms of both cost and ethics. Biodegradable polymers offer alternatives for packaging that minimize environmental pollution at a relatively low cost. Applications of these polymers in the food and biomedical industries have been investigated. For packaging, polymeric materials should function as a barrier for water, oxygen and lipid transfer in food systems and, therefore, should contribute to the extension in the shelf-life of food. For medical applications, the material should repair tissue defects, and be designed to exhibit adequate physical and chemical properties and, at the same time, to enhance cell adhesion, proliferation and differentiation. Although nanostructured reinforced composites are highly recommended for bone implants over the micrometer sized composites for their improved reinforcement efficiency and biological responses, they may also pose toxicological effects. Current trends in polymer science also reflect the fact that synthesis and manufacturing of polymers should be done using environmentally friendly processes. All these aspects of polymer science and technology are hugely demanding in present times.

- Biodegradable polymer nanocomposites
- Materials for biodegradable packaging
- Scaffolds for tissue engineering
- Synthesis, processing and characterization of biodegradable polymers
- Toxicity and biodegradability of polymeric materials

SYMPOSIUM C - Electronic Materials

This Symposium will cover the fabrication and characterization of materials, interfaces, and devices ranging from advanced silicon technology to novel, unconventional systems. Contributions are welcome in both experimental and theory/simulation areas. Different classes of semiconductors (silicon, organic, wide band gap, high transfer channels etc.) and devices (high performance CMOS, discrete high power devices, flexible electronics etc.) will be addressed.

- Advanced materials in silicon technology
- Semiconductor surface passivation
- Organic semiconductors and devices
- Materials and devices for flexible electronics
- Wide band gap semiconductors and devices
- High transport channel materials
- Novel device structures

- Photo and electroluminescence
- Advanced materials for photovoltaics
- Nanostructured materials and nanoscale electronic devices
- Materials for "More than Moore" and "beyond CMOS" electronics

SYMPOSIUM D - Surface Engineering: fabrication, characterization, properties and applications of protective coatings and modified surfaces

The aim of this symposium is to offer an overview on the frontiers of research, technology and applications of protective coatings and surface modifications by plasma, electron, ion or laser beams. Physicists, chemists, materials scientists, mechanical, material, metallurgical and mining engineers working in the field are the target audience.

- Nanostructured coatings, such as diamond-like carbon films, nanodiamond films, multi-component systems based on transition metal nitrides or oxides, hard nanocomposites and multi-functional nanolaminates, with a wide range of applications (automotive and machinery industries, aeronautic and aerospace industries, mining industry, oil and gas industry, medical implants, decoration, electronic industry, etc.);
- Surface modifications induced by energetic techniques such as ion implantation, laser treatment, plasma processing, etc.;
- Physical and chemical routes of synthesis with emphasis on emerging techniques: hybrid sputtering/CVD techniques, highly ionized sputter deposition, ion enhanced pulsed laser deposition, plasma-assisted chemical vapor deposition, atmospheric plasma, pulsed plasma, plasma-based ion implantation, activated reactive evaporation, cathodic arc, etc.;
- Fundamentals of deposition processes, growth modeling, substrate/surface effects, residual stresses;
- Characterization and properties of protective coatings and modified surfaces, including morphology, microstructure, composition, mechanical and tribological properties, tribochemistry, MEMS/NEMS interfaces and chemical properties comprising chemical inertness, anti-microbial or self-cleaning finalities.

- Ultra-low friction coatings
- Recent progress in nanoindentation
- Micro and nanotribology
- Super hard coatings
- New deposition techniques
- Coatings for oil and gas industry
- Hydrophobic and hydrophilic coatings
- Nanostructured coatings
- Surface metrology

SYMPOSIUM E - Materials with Negative Properties / 8th International Workshop on Auxetic & Related Materials

The Symposium E on Materials with Negative Properties will provide an unique opportunity for Brazilian and international scientific communities to discuss together the issues regarding to this exiting research field since 8th edition of the prestigious international conference on Auxetic & Related Materials will be held this year in September as a joint site conference with sites in Poland (http://ifmpan.poznan.pl/auxetics2011/) and Brazil (hosted at Symposium E).

The Symposium will provide an exciting environment for the discussion of recent theoretical and experimental developments in the general of materials that display unusual negative properties, such as negative thermal expansion, negative Poisson's ratio (auxetics), negative compressibility and negative refractive index (metamaterials).

The first reports on materials exhibiting negative thermal expansion (NTE), i.e., contracting as temperature increases, go back more than 50 years. This property is not restricted to exotic classes of materials. Even familiar compounds such as hexagonal ice and water show NTE, although over a limited temperature range. The field has been growing since the re–discovery of NTE in cubic ZrW2O8 (AM2O8 family) in 1996. Several other classes of open–framework materials, including AO2, AMO5, AM2O7, A2O and A2M3O12 compositions, have emerged as potential sources of crystalline phases displaying low or NTE. These materials have opened up opportunities for the scientific

community to exploit negative thermal expansion for a variety of applications. Negative compressibility materials expand when submitted to isostatic pressure. The emergence of nano science in last 20 years has led to the development and engineering of novel materials and properties through the design of complex architectures with engineered sizes, compositions and morphologies. For example, by controlling the ratio of single wall to multi-wall carbon nanotubes in composites their Poisson's ratio can be tuned from positive to negative values, making possible a biaxial expansion under hydrostatic pressures. Recently, it was experimentally demonstrated, for a certain wavelength range, that it is possible to design materials and systems with negative refractive index (so-called metamaterials), opening a rich research field with many envisioned applications.

The discovery of the materials with negative properties has stimulated the scientific community to pursue the development of models that both enable an understanding of the fundamental mechanisms responsible for these striking properties, and guide the development of novel materials, which could help overcome some of the technological challenges facing modern society.

- Negative thermal expansion materials
- Negative Poisson's ratio (auxetics)
- Negative compressibility
- Negative refractive index (metamaterials)

SYMPOSIUM F - Nanostructured Functional Materials for Advanced Energy and Environmental Applications

While fossil fuels presently provide worldwide over 80% of its energy needs, concerns about long term availability, cost, and emissions has stimulated great interest in identifying a) improved combustion cycles with reduced emissions utilizing catalysts and sensors, b) electrochemical conversion via fuel cells, c) capture of waste heat by thermoelectric devices, d) capture of solar energy via photovoltaic cells, e) storage of electricity via high energy batteries, f) solar assisted splitting of water to generate hydrogen, g) energy conservation via the use of smart electrochromic windows, and h) use of solid state lighting. In all of these active scientific and technological areas, nanostructured functional materials appear to be playing an ever increasing role. For example, nearly all recent advances in the areas of thermoelectric devices, dye sensitized solar cells and lithium batteries have resulted from the optimization and control of materials on the nanoscale. In this symposium, contributions are invited which describe work directed towards the science and technology of functional materials designed for advanced energy and environmental applications.

- The processing and fabrication of nanostructured functional materials
- Their structural and microstructural characterization
- Their electrical, electrochemical, optical and magnetic characterization
- Modeling of nanostructured materials and devices
- Nanostructured catalysts designed for energy conversion and emissions control
- Nanostructured materials (e.g. cathodes and anodes) for advanced batteries, fuel cells and photoelectrochemical cells
- Nanostructured materials for thermoelectric applications
- Nanostructured materials for solar energy conversion and storage
- Nanostructured materials for advanced sensor applications

SYMPOSIUM G - Molecular Modeling Materials Science

The improving of hardware, software and computational techniques have been utilized in molecular modeling of complex materials including oxides, nitrides, and organic and inorganic semiconductors, paving the way to the development of new technological apparatus. The aim of this symposium will be focused on molecular modeling of materials devices and will cover topics from the fundamental theory and computational studies to modern advances in grid computing.

- Modeling of thin films and nanostructures
- Grid computing of materials properties
- ovel molecular modeling methods
- tructures-property relationship based on ab initio methods
- Density Functional Theory
- Monte Carlo simulation of materials

- Application of Molecular Dynamics to materials

SYMPOSIUM H - Structure-Properties Relationship of Advanced Metallic Materials

Over the last decades, we have witnessed and benefited from the development of numerous new technological systems. The development of these technologies emphasizes the importance of materials as the primary building blocks for engineering developments. On the one hand, the properties of materials have dictated nearly every design and every useful application that the engineer could devise. On the other hand, with the present sophistication of science and engineering of materials, it is no longer simply a question of being satisfied to design with existing materials. We are now requiring new materials with new properties to fit our designs. This is true in all fields of engineering. This search for new materials with improved properties now occupies an important position in the engineering world.

A number of procedures have been recently proposed to aid the development of materials science and engineering. For example, the advents of the scanning tunneling microscope and the atomic force microscope, together with developments in electron microscopy, have opened new ways for the study of structure materials at the nano-scale. Advances in the field of fracture mechanics and its application to structural design and material selection have helped to offset some of the potential dangers posed by increasing technological complexity, and have undoubtedly prevented a substantial number of structural failures. The development of thermo-mechanical processing in steel industry changed the traditional concept of deformation processing, when the single operation to reduce thickness and to provide a desirable shape has been improved to product specific microstructures, with which are associated particular mechanical and physical properties. This Symposium deals with these topics, to show some of the new most important scientific and technological advances in materials science and engineering.

The objective of this Symposium is to discuss the relationships between processing, structure, properties and performance of advanced engineering metallic materials, with emphasis in new fabrication and characterization techniques.

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

SYMPOSIUM I - Sol-gel route to prepare new inorganic, hybrid and multifunctional materials

The progress in obtaining new inorganic, hybrid or multifunctional materials depends on the development of synthesis techniques that allow a structural control at atomic and molecular scale. The sol-gel method, although very old, remains one of the most efficient and versatile techniques for this type of control. This symposium will focus on recent progress in the development of inorganic and organo-inorganic hybrid materials via sol-gel method. These materials present a huge variety of properties and functions, with applications in areas such as optics, electronics, electrochemistry, catalysis, energy among others.

- Inorganic materials made of silica, alumina, titania, zirconia or other oxides
- Hybrid materials made of silica, alumina, titania, zirconia or other oxides
- Nanocomposites
- Polysilsesquioxane
- Porous materials as: zeolites, foams, microporous and mesoporous, hierarchically structured
- Alternative routes for sol-gel method (non aqueous reactions and others)
- Characterization techniques for materials obtained by sol-gel method
- Applications of sol-gel materials in: optics, sensors, catalysis, separation methods, electric materials, energy generation and storage, coatings, films and others

SYMPOSIUM J - Solidification of metals and alloys

This proposal refers to a general symposium covering several topics in solidification science. Solidification is a multidisciplinary field of high importance for comprehension of industrial processing involving molten alloys such as welding, continuous casting, powder metallurgy and foundry. Process limits are still present and are to be overcome. Many groups in Brazil and abroad have carried out valuable research regarding to particular subjects like nucleation, macrostructure, structural transitions, as-cast microstructure, porosity, inverse segregation, metal/mold interface, interdendritic fluid flow, and mechanical properties of as-cast metals. All these topics have been studied following either experimental or modeling approaches, with remarkable complementary aspects between them. Nowadays, complementary research has been developed concerning the evaluation of experimental data from stationary and transient directionally solidified alloys.

- Dendritic and cellular growth
- Correlations between dendritic/cellular arrangement and mechanical properties
- Corrosion resistance of as-cast structures
- Zone melting
- Microsegregation and macrosegregation in binary and ternary alloys
- Porosity in binary and ternary aluminium alloys
- Modeling of heat and mass transfer during solidification
- Laser surface remelting (LSR)
- Eutectic and monotectic growth
- Bridgman technique
- Continuous casting
- Influence of convection on as-cast structures

SYMPOSIUM K - Supramomolecular organic materials for electronic, photonics and nanotechnology

This Symposium intends to bring together chemists, materials scientists, physicists, and engineers from both academia and industry to share information on the organic materials for emerging new electronic and photonic technologies. It includes all types of organic molecular and polymeric functional materials, their electronic and photonic properties and device applications. The research topics include all types of molecular, organic, and polymeric functional materials, their nanostructured composites and blends, their synthesis, processing and nanofabrication (molecular crystals, multilayers, self-assemblies, ultrathin films), spectroscopic characterization, morphology, electronic and photonic properties. In addition, the symposium is equally opened for applications in organic devices as well in organic-inorganic hybrid devices: organic light-emitting diodes (OLEDs), organic fieldeffect transistors (OFETs), organic photovoltaics (OPVs), integrated circuits, non-volatile memories, sensors & detectors, and single molecule electronics.

- Synthesis of new materials
- Charge Transport and Morphology in organic thin films
- Theory and quantum approaches in conjugated systems and organic devices
- Photophysics and photochemistry of conjugated polymers
- Organic Thin-Film Transistors: Fundamental and Applied Aspects
- Conjugated Polymer Based Solar Cells
- Electroluminescent devices
- Physics and technology of biosensors
- Modelling of electrical transport phenomena in organic devices

SYMPOSIUM L - Structure-Property Relationship of Ceramic Materials: Theoretical and Experimental Aspects

This symposium aims at discussing the impact of joining studies in the theoretical and experimental areas in the control and understanding of intrinsic and extrinsic properties of solid state. The main idea is to promote discussions that involve the fundamental and technological aspects of the materials that may lead to the improvement, understanding and foreseeing of the properties of technological devices.

Following the initial proposal by Prof. E. Longo (Foz do Iguaçu, 2004), the symposium was re-edited in 2006 (Florianopolis), 2007 (Natal) and 2008 (Guarujá) by Profs. J. R. Sambrano and J. B. Lopes Martins and 2009 (ICAM – Rio de Janeiro) coordinated by Prof. Carlton Taft. In its last edition, 2010 (Ouro Preto) the symposium was coordinated by Profs J. R. Sambrano and I. M. G dos Santos. Since its first, edition the symposium attracted an increasing number of contributions, reaching about 500 abstracts in 2010.

- Application of simulation in the understanding of physical and chemical properties of nanostructured materials, surfaces and bulk;
- Theoretical analysis on energetic and dynamic factors in technological materials;
- Development and application of art state methodologies (classic, statistic and quantic) applied to new materials;
- Influence of synthesis and processing in the extrinsic properties controlled by grain boundary, by material structure and by characteristics of inorganic systems;
- Materials with potential application in energy generation and environment;
- Nanomaterials with differential extrinsic properties – theoretical and experimental aspects;
- Transport theory related to devices and electronic structure in molecular scale;
- Processing and applications as biosensors and electronic, chemical and photonic devices.

SYMPOSIUM M - Advances and Applications of Electron Microscopy

The "Advances and Applications of Electron Microscopy" symposium will cover studies in both Scanning Electron Microscopy (SEM) and Transmission Electron Microscopy (TEM). SEM and TEM are powerful techniques of materials characterization enabling measurements of local properties, chemical composition, morphology, structure, and so on. Nowadays electron microscopes have received improvements which allowed new insights about growth mechanisms, in-situ studies, thermal stability of materials, etc.

This symposium will be broad enough to accept works from the electron microscopy community in different subareas. So, we encourage the submission of papers using EM techniques to characterize soft and/or hard materials, in-situ studies in both SEM and TEM, electron lithography advances, chemical characterization using different techniques (EDS, WDS, EELS), and so on. Besides, theoretical advances in EM simulation and theoretical/experimental works related to EM are also encouraged.

The symposium is open to students, faculties and industrial researchers with the expectation that the interactions among attendees will enable new collaborations.

- High resolution SEM;
- In-situ and environmental studies using SEM;
- EDS, WDS, EBSD and EBIC studies in SEM;
- High resolution characterization in TEM;
- Cryo and in-situ studies in TEM;
- EELS and CBED applications;
- Aberration corrected studies;
- TEM theoretical modeling.

SYMPOSIUM N - Prospects for materials science with synchrotron radiation in Brazil

Over the last 30 years synchrotron radiation has become an invaluable tool for several scientific disciplines, specially for materials science. Since 1997, the Brazilian synchrotron light source (LNLS) has been providing the Brazilian and Latin American materials science communities with beam lines dedicated to diffraction, x-ray scattering and spectroscopic techniques. Over these years, the LNLS light source and beam lines have undergone several improvements and upgrades, and now operate with much better performance parameters than initially anticipated in the machine project.

A new multipurpose beam line dedicated to materials science, with optics and instrumentation adequate to applications in spectroscopic, imaging, scattering and diffractions experiments, will be installed and commissioned along 2011 and will be available to users in 2012. This beam line will utilize synchtrotron radiation produced by a superconducting wiggler, extending the achievable energy range up to 30 keV and a ~200 and ~1000-fold flux enhancement at 10 and 20 keV, respectively, as compared to the current hard X-ray LNLS beam lines. Moreover, since the LNLS storage ring is reaching its limits for upgrades, the plans for the construction of a new, high brilliance 3rd generation light source in the next decade are in advanced stage. In view of the new potentialities opened up by the new LNLS beam lines and the new light source, the SBPMAT meeting is a timely opportunity to gather the materials science community and discuss the perspectives for materials science with synchrotron radiation in Brazil. The main focus of the discussions will be on new experiments and techniques only feasible with these new facilities. Invited keynote lectures will cover such topics. We will also accept abstracts on

general materials science topics such as catalysis, materials under extreme conditions, magnetism, nanomaterials and so on. Finally, the lectures and discussions will be complemented by 2-3 day data analysis schools on Rietveld Refinement, Small Angle X-Ray Scattering (SAXS) and X-ray Absorption Fine Structure Spectroscopy (XAFS), to be held on the weekend after the SBPMAT meeting.

SYMPOSIUM O - 1st Brazilian Symposium in Friction Stir Welding and Processing

The symposium will cover ongoing research in friction stir welding and processing and other related solid state joining processes applied to low and high melting temperature materials, as Aluminum, Copper, Magnesium, Iron and Nickel-based alloys. Different areas covering from process and tools development, microstructure and performance evaluation, to industrial applications will be covered in this first Brazilian symposium of FSW and FSP.

This meeting will be a great opportunity for the scientific and technical community working on FSW, FSP and related processes to interchange ideas and see some of the new developments in this area in Brazil and the word. This will also be an opportunity to establish fruitful national and international collaborations and coordinated efforts to speed this technology dissemination within the Brazilian industries.

Due to the importance for the Brazilian economy, special emphasis will be given to aerospace, transportation, and oil and gas industries research and industrial applications.

- Friction stir welding process development;
- Friction stir processing and related cladding processes;
- Friction stir spot welding;
- Hydropillar welding and related processes;
- Tools and tools materials development;
- Microstructure evaluation;
- Mechanical and environmental performance of friction stir welded and processed materials;
- Industrial applications for the aerospace, automotive, transportation and energy sectors;
- Process control;
- Non-destructive evaluation for FSW;
- Process modeling and physical simulation;
- Equipment development.

SYMPOSIUM P – Graphene

Graphene was the first two-dimensional material observed. It is composed of carbon atoms arranged in a hexagonal network (honeycomb structure). Although developed very recently, graphene has already found many applications such as solar cells, liquid crystal devices, molecular sensors, and nano-sized transistor prototypes. In the area of basic research, the discovery of this material has also revealed new and interesting physical effects that culminated with the Nobel Prize in Physics 2010 awarded to Andre Geim and Konstantin Novoselov "for groundbreaking experiments regarding the two-dimensional material graphene". This blossoming of graphene research derives from several factors, the most important being that graphene is an easily fabricated material in which fundamental aspects of Physics and Chemistry can be observed. From the fundamental Physics point of view, the fact that graphene is a tabletop system, where a myriad of physical properties of two-dimensional Dirac fermions can be investigated, is perhaps the most compelling. Not to be forgotten is graphene's potential as a technological material, due to its exceptional mechanical and electronic properties, which allow us to envisage the use of this material in a variety of applications. Indeed, the Physics of graphene manifests the uniqueness of carbon among the elements in the periodic table.

The aim of the symposium "Graphene" is to bring scientists in the area of graphene science together to examine our current understanding and to define future trends of this exciting field. The symposium will address progress at the frontiers of fundamental as well as applied research, and will allow participants to exchange ideas and results of their latest work.

- Electronic and optical properties
- Synthesis
- Chemical modification
- Applications

SYMPOSIUM Q – Advanced Materials

This symposium contains only poster contributions on general materials science and is featured to include contributions that do not fit in the dedicated symposia.

PLENARY LECTURES

Monday 26th

8:30h - **Prof. Jim de Yoreo**
President of the US Materials Research Society (MRS) Interim Director, Molecular Foundry, Lawrence Berkeley National Laboratory, USA
Title: Physical Insights into Nature's Way of Making Materials

14:00h - **Prof. Harry Tuller**
Department of Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge MA, USA
Title: Electroceramics – Strategic Materials in the Quest to Solve the Energy Crisis

18:00h - **Dr. Marcus Freitag**
Research Division of IBM T.J. Watson Center, New York, USA
Title: Graphene Optoelectronics

Tuesday 27th

8:30h - **Prof. Paulo P. Freitas**[1,2]
[1]INESC-MN and IN, R. Alves Redol 9, 1000 Lisbon, Portugal
[2]Physics department, IST, Av. Rovisco Pais, 1000 Lisbon, Portugal
Title: Spintronic Microsystems: from Lab On Chip to MEMS Applications

Wednesday 28th

8:30h- **Prof. Terence G. Langdon**
USC Viterbi School of Engineering, Department of Aerospace & Mechanical Engineering, University of Southern California, Los Angeles, CA 90089-1453, U.S.A.
Title: Recent Advances in the Processing and Properties of Ultrafine-Grained Metals Using Severe Plastic Deformation

14:00h - **Prof. Bruce Dunn**
Nippon Sheet Glass Chair, Department of Materials Science and Engineering University of California, Los Angeles CA, USA.
Title: The Design of Materials and Architectures for Capacitive Energy Storage

18:00h - **Prof. Donald Bradley**
Prof. of Experimental Physics, Imperial College London
Title: The Influence of Film Morphology in High-Mobility Organic Films: Polymer Blend Organic Transistors and Other Devices

Thursday 29th

8:30h - **Prof. Gary L. Messing**
Department of Materials Science and Engineering Pennylvania State University, University Park, PA USA
Title: Rare Earth-Doped Oxide Ceramic Laser Gain Media – Processing, Properties and Challenges

11:00h - **Prof. Edson Leite**
Centro de Ciências Exatas e de Tecnologia, Universidade Federal de São Carlos, São Carlos - SP, Brasil
Title: Better Nanomaterials through Chemistry: Novel Strategies for the Synthesis of Metal Oxides Nanocrystals.

SYMPOSIA SUMMARY

SYMPOSIUM	CHAIRS
A) Magnetic and Superconducting Materials	Renato F. Jardim - Instituto de Física – USP, Rubem L. Sommer – CBPF, Paulo Pureur - Instituto de Física – UFRGS and Julio Guimpel - Centro Atomico Bariloche
B) Biodegradable Polymer Materials	Cristina Tristão Andrade – UFRJ, Marcos Lopes Dias – UFRJ and António Vicente - University of Minho
C) Electronic Materials	Cristiano Krug - Instituto de Física – UFRGS, Cylon Gonçalves da Silva - CEITEC S.A., Antônio L. P. Rotondaro - Centro de Tecnologia Renato Archer and Celso Pinto de Melo - Departamento de Física – UFPE
D) Surface Engineering: fabrication, characterization, properties and applications of protective coatings and modified surfaces	Fernando Lázaro Freire Junior - PUC-Rio and Carlos Alejandro Figueroa - Universidade de Caxias do Sul, RS
E) Materials with Negative Properties / 8th International Workshop on Auxetic & Related Materials	Bojan Marinkovic (PUC-Rio), Antonio Gomes Souza Filho (UFC, Fortaleza), Douglas Soares Galvão (UNICAMP, Campinas) and Angus Wilkinson (School of Chemistry and Biochemistry, Georgia Institute of Technology, USA)
F) Nanostructured Functional Materials for Advanced Energy and Environmental Applications	Harry L. Tuller (Department of Materials Science and Engineering, Massachusetts Institute of Technology, USA) and Reginaldo Muccillo (Center of Science and Technology of Materials, Energy and Nuclear Research Institute S. Paulo)
G) Molecular Modeling Materials Science	Aguinaldo Robinson de Souza - DQ – Unesp and Nelson Henrique Morgon - IQ – UNICAMP
H) Structure-Properties Relationship of Advanced Metallic Materials	Leonardo Barbosa Godefroid – UFOP, Waldek Wladimir Bose Filho – USP, Luiz Carlos Rolim Lopes – UFF, Juan Perez Ipiña – UNCOMA and Pedro Dolabella Portella (BAM)
I) Sol-gel route to prepare new inorganic, hybrid and multifunctional materials	Márcia Russman Gallas (IF-UFRGS), Tania Maria Haas Costa (IQ-UFRGS), Fabiano S. Rodembush (IQ-UFRGS), Leandra F. Campo (IQ-UFRGS), Sandra Helena Pulcinelli (IQ-UNESP) Sidney J. L. Ribeiro (IQ-UNESP), Marcia Carvalho de Abreu Fantini (IF-USP/SP) and Yoshitaka Gushikem (IQ-UNICAMP)
J) Solidification of metals and alloys	José Eduardo Spinelli, DEMa/UFSCar, Brazil, Amauri Garcia, DEMA/FEM/UNICAMP, Brazil, Nathalie Mangelinck-Noël, Institut Matériaux Microélectronic Nanoscience de Provence, France.
K) Supramomolecular organic materials for electronic, photonics and nanotechnology	Leni Akcelrud – UFPR, Roberto Mendonça Faria – USP, José Alberto Giacometti – Unesp and Carlos José Leopoldo Constantino - USP
L) Structure-Property Relationship of Ceramic Materials: Theoretical and Experimental Aspects	Carlos Pérez Bergmann – UFRGS, Elson Longo - Unesp Julio Ricardo Sambrano – Unesp, Juan Andrés (Universitat Jaume I, Spain), Wilson Acchar – UFRN, Valerie Bouquet (Université Rennes1, France) and Shay Reboh (CEMES, Toulouse, France)
M) Advances and Applications of Electron Microscopy	Marcelo Ornaghi Orlandi (São Paulo State University) and Conrado Ramos Moreira Afonso (UFSCar)
N) Prospects for materials science with synchrotron radiation in Brazil	Gustavo Azevedo (IF-UFRGS), Eduardo Granado (IF-UNICAMP/LNLS), Guinther Kellermann - DF-UFPR and Fabio Furlan - UFABC
O) 1st Brazilian Symposium in Friction Stir Welding and Processing	Antonio J. Ramirez - Nanotechnology National Laboratory, Fernando Fernandez, Embraer and Maysa Terada, Nanotechnology National Laboratory
P) Graphene	Luiz Gustavo Cançado, Departamento de Física – UFMG and Ado Jorio, Departamento de Física – UFMG

SYMPOSIUM A

Magnetic and Superconducting Materials

Chairs

Renato F. Jardim (Instituto de Física – USP)
Rubem L. Sommer (CBPF)
Paulo Pureur (Instituto de Física – UFRGS)
Julio Guimpel (Centro Atomico Bariloche)

ORAL PRESENTATIONS

* Invited Lecture

MONDAY , SEPTEMBER 26TH

SESSION A1
09:30 - 10:30 - Room 21

09:30 - A1.1*
Interconversion of charge, heat and spin currents
Sergio Machado Rezende

10:00 - A1.2
Study of the degree of order of sputtered ^{57}Fe tracer layers on exchange biased IrMn/CoFe.
Luis Eugenio Fernandez Outon[1], Thatyara Freire de Souza[2], José Domingos Ardisson, Waldemar Augusto de Almeida Macedo; [1]Centro de Desenvolvimento da Tecnologia Nuclear, [2]Centro de Desenvolvimento de Tecnologia Nuclear

10:15 - A1.3
Magnetic investigation with structural correlation of Fe_xCo_{1-x} ultra thin films on Pd(100)
Gustavo Fóscolo de Moura Gomes[1], Roberto Magalhães Paniago, Hans D.- Pfannes; [1]Universidade Federal de Minas Gerais

SESSION A2
11:00 - 12:30 - Room 21

11:00 - A2.1*
Thermodynamic model of exchange-bias in ferromagnetic/antiferromagnetic bilayers
Daniel Reinaldo Cornejo[1]; [1]Instituto de Física

11:30 - A2.2
Study of magnetostriction properties of $Fe_{80}Al_{20}$ alloys with B addition.
Mateus Botani[1], Cristina Bormio Nunes; [1]Escola de Engenharia de Lorena - Universidade de São Paulo

11:45 - A2.3
Angular dependence of the magnetoeletric and magnetostriction effects in multiferroic composites
Adilson J A de Oliveira[1], Alexandre José Gualdi, Fabio L Zabotto, José Antônio Eiras[1], Ducinei Garcia; [1]Universidade Federal de São Carlos - Campus: São Carlos

12:00 - A2.4
Effect of B doping and rapid solidification on the magnetostriction of $Fe_{80}Al_{20}$ alloy
Claudio Teodoro Dos Santos, Cristina Bormio Nunes, Mateus Botani[1], Mathias Dörr; [1]Escola de Engenharia de Lorena - Universidade de São Paulo

12:15 - A2.5
Stochastic modeling of hysteresis in single domain particles
Gabriel Teixeira Landi[1], Antonio Domingues Santos[2]; [1]Instituto de Física da Universidade de São Paulo, [2]Instituto de Física

SESSION A3
15:00 - 16:00 - Room 21

15:00 - A3.1*
Exchange bias and negative rotatable anisotropy of IrMn/Cr/Co thin films
Julian Geshev, Sabrina Nicolodi, Luis Gustavo Pereira, João Edgar Schmidt, Cyrile Deranlot, Frederic Petroff

15:30 - A3.2
Structural and Magnetic Properties of Iron Nanoparticles in Silver Films from Mössbauer Spectroscopy, Muon Spin Rotation and EXAFS
William H. Trujillo[1], Isabel C. Souza Dinóla, Mathias Mraken, Elisa Baggio Saitovitch, Jochen Litterst; [1]Centro Brasileiro de Pesquisas Físicas

15:45 - A3.3
Electrodeposited Co doped Cu_2O as a diluted magnetic semiconductor
Iuri Stefani Brandt, Enio Lima Junior, Milton Andre Tumelero, Jose Javier Saez Acuña, Douglas Langie da Silva, Rafaela Debastiani, Andre Avelino Pasa

TUESDAY , SEPTEMBER 27TH

SESSION A4
09:30 - 10:30 - Room 21

09:30 - A4.1*

Magnetic nanostructures fabricated using chemically anodized template: fabrication and magnetic properties

Kleber Roberto Pirota

10:00 - A4.2

Thermoelectric Characterization of $Yb_{14}MSb_{11}$ Single Crystals (M = Mn, Zn, Al)

Raquel A. Ribeiro[1], Marcos Abreu Avila, Elio Thizay Magnavita; [1]Universidade Federal do Abc

10:15 - A4.3

Direct measurement of the magnetocaloric effect on metallic gadolinium

Catalina Salazar Mejía, Angelo Marcio Gomes, Alexandre Magnus Gomes Carvalho[1]; [1]Inmetro

SESSION A5
11:00 - 12:30 - Room 21

11:00 - A5.1*

Structural, microstrucutural, electrical and magnetic properties Ruthenium pyrochlores

Jose Albino Aguiar

11:30 - A5.2

Magnetic hyperthermia investigation of cobalt ferrite nanoparticles

Ediron Lima Verde, Marcus Santos Carrião, Thiago Melo Lima[1], Ernanni D Vieira, Marcelo Henrique Sousa, Andris Figueiroa Bakuzis[1]; [1]Universidade Federal de Goiás

11:45 - A5.3

Barocaloric effect and the pressure induced solid state refrigerator

Nilson Antunes de Oliveira[1]; [1]Universidade do Estado do Rio de Janeiro

12:00 - A5.4

The One-Pot Synthesis of Amino Acid Surface-Covered Magnetic Nanoparticles

Joel Camargo Rubim[1], Vanda Maria de Oliveira, Anderson Mateus Mendonça Medeiros[1], Kaian Amorim Teles, Alexandre Luis Parize[1], Brenno Amaro da Silveira Neto; [1]Universidade de Brasília

12:15 - A5.5

Morphological and Magnetic Characterization of Electrospray Polystyrene Microbeads Embedded with Magnetite Nanoparticles

André Sionek[1], Diogo Anderson Neves[1], Valderes Crespo Drago[2], Guilherme Dalla Lana Semione[2], Ney Pereira Mattoso, Cyro Ketzer Saul; [1]Universidade Federal do Paraná, [2]Universidade Federal de Santa Catarina

WEDNESDAY, SEPTEMBER 28TH

SESSION A6
09:30 - 10:30 - Room 21

09:30 - A6.1*

Towards ultrafast microelectronics: development and optimization of ion irradiated Josephson nanojunctions.

Martin Sirena[1], Nicolas Bergeal, Jerome Lesueur, Rozenn Bernard, Javier Briatico, Denis Crété, Giancarlo Faini; [1]Instituto Balseiro

10:00 - A6.2

Superconductivity and magnetism in K_xMoO_2

Leandro Marcos da Silva Alves, Carlos Alberto Moreira Dos Santos[1], Sueh Saboia Benaion, Bruno Sanches de Lima, A. J. S. Machado, M. D. R. Marques, J. A. Aguiar; [1]Escola de Engenharia de Lorena - Usp

10:15 - A6.3

Effect of magnetic nanoparticles on the superconducting transition in superconductor/ferromagnet nano-composites

Yutao Xing[1], William H. Trujillo[2], Isabel C. Souza Dinóla, Ury Denver Chacón Hernandez, Hans Micklitz, Elisa Baggio Saitovitch; [1]Universidade Federal Fluminense, [2]Centro Brasileiro de Pesquisas Físicas

SESSION A7
11:00 - 12:30 - Room 21

11:00 - A7.1*

Local electronic and magnetic properties of pnictide superconductors

Yanina Fasano

11:30 - A7.2

Structural and magnetic properties of La_2CoMnO_6 produced by combustion synthesis

Pedro Linhares da Cunha Filho[1], Petrucio Barrozo da Silva[2], Nelson Orlando Moreno, José Albino Aguiar; [1]Universidade Federal de Pernambuco, [2]Universidade Federal de Sergipe

11:45 - A7.3

Frustrated ferromagnetic square lattice family of compounds: $AA'VO(PO_4)_2$ (A', A = Pb, Ba, Sr, Zn, Cd)

Enrique Eduardo Kaul[1], Roman Shpanchenko,

Alexander A. Tsirlin, Ramesh Nath, Nic Shannon, Helge Rosner, Cristoph Geibel; [1]Comision Nacional de Energia Atomica

12:00 - A7.4

Magneto-Resistance and Hall Effect of Highly Oriented $FeSe_{0.5}Te_{0.5}$ Superconductor

Jorge Luiz Pimentel Jr.[1], Paulo Pureur; [1]Universidade Federal do Rio Grande do Sul

12:15 - A7.5

A novel method for characterizing magnetic viscosity of ultrasoft magnets

Fanny Béron[1], Gabriel Soares, Luiz Augusto Sousa de Oliveira[1], Kleber Roberto Pirota, Marcelo Knobel; [1]Universidade Estadual de Campinas

SESSION A8
15:00 - 16:00 - Room 21

15:00 - A8.1*

Phase Separation in Superconducting $Ba_{0.5}K_{0.5}Fe_2As_2$ and $Sr_{0.5}Na_{0.5}Fe_2As_2$ Single Crystals: A Local Probe Study

Mariella Alzamora, Julian Munevar, Elisa Baggio Saitovitch, N L Wang, G F Cheng, Dalber R Sanchez

15:30 - A8.2

Planar fluxgate as a tool for the magnetic monitoring of cardiac valves prosthesis

Amanda Lopes Oliveira[1], Tobias Heimfarth, Marcelo Mulato; [1]Ffclrp - Universidade de São Paulo

15:45 - A8.3*

The New Fe-pnictide Superconductors: Magnetic and Structural Transitions

Elisa Baggio Saitovitch

THURSDAY , SEPTEMBER 29TH

SESSION A9
09:30 - 10:30 - Room 21

09:30 - A9.1*

Experimental and theoretical studies of ferroelectric,magnetic, structural and electronic properties ofSr_2ZrMnO_6 material

Jairo Roa-Rojas, David Arsenio Landinez, Daniel Llamosa Perez, Crispulo Enrique Deluque Toro

10:00 - A9.2

Synthesis and surface modification of antiferromagnetic MnO nanoparticles for bioimaging as T_1 contrast agent

Laudemir Carlos Varanda[1], Herbert Rodrigo Neves; [1]Instituto de Química de São Carlos

10:15 - A9.3

Static and dynamical characterization of magnetic nanoparticles systems for biomedical applications

Miguel Alexandre Novak, Luiza Amin Marcante, Maria Das Graças Fiaho Vaz, Wellington Wallace Miguel Melo, Vikas Nandwana

POSTER PRESENTATIONS

MONDAY , SEPTEMBER 26TH
SESSION SP1
16:00 - 18:00 - Exhibition Hall

SP1-A1 - Anisotropic magnetocaloric effect due to the antiferromagnetic characteristic of the system: Application in EuZrO3, EuTiO3 and Eu(1-x)CaxTiO3

Bruno de Pinho Alho[1], Alexandre Magnus Gomes Carvalho[2], Pedro Jorge Von Ranke; [1]Universidade do Estado do Rio de Janeiro, [2]Inmetro

SP1-A2 - Synthesis and characterization behavior of vortex on nanoparticles of barium hexaferrite

Sheila Bernhard Galvao[1], Everlânia Maria da Silva[1], Susana Nobrega Medeiros, Carlos Alberto Paskocimas; [1]Universidade Federal do Rio Grande do Norte

SP1-A3 - Magnetic Properties and Magnetoimpedance of $Ni_{81}F e_{19}$/Cu Films Electrodeposited on Copper Microwire

Bruno Gomes Silva[1], Diego González Chávez[1], José Gomes Filho, Rubem Luis Sommer[1]; [1]Centro Brasileiro de Pesquisas Físicas

SP1-A4 - Magnetic and hyperfine properties of $Fe_{86}Co_{14-x}Cu_x$ alloys

Patrick Bley Copetti[1], João Carlos Krause, Jacob Schaf, José Domingos Ardisson, Clederson Paduani; [1]Universidade Regional Integrada do Alto Uruguai E Das Missões

SP1-A5 - Unusual magnetic field dependence of the blocking temperature in Ni nanoparticles at low magnetic fields

Sueli Hatsumi Masunaga[1], Renato de Figueiredo Jardim[2]; [1]Instituto de Física da Universidade de São Paulo, [2]Universidade de São Paulo

SP1-A6 - The role of the structure and the atomic environment in the magnetic behavior of electrodeposited Fe_xNi_{1-x} ultra-thin films on Au(111)

Hugo Feitosa Jurca

SP1-A7 - Study of Co/Pt multilayers for optical detection without applied magnetic field perpendicular magnetization, multilayers, sputtering, Co, Pt, Spin-LED.

Juliana Zarpellon

SP1-A8 - Voltage relaxation in uniaxially pressed $Bi_{1.65}Pb_{0.35}Sr_2Ca_2Cu_3O_{10+y}$ ceramic samples

Iván García-Fornaris, Armando Planas-Verdecia, Ernesto Govea-Alcaide, Pedro Muné-Bandera, Paulo Atsushi Suzuki, Renato de Figueiredo Jardim[1]; [1]Universidade de São Paulo

SP1-A9 - Magnetic Behavior of Co-Cu Alloys: Simulation of Magnetic Hysteresis Loops

Vagner Zeizer Carvalho Paes[1], Adilson J A de Oliveira[2], Dante Homero Mosca[2], José . Varalda; [1]Universidade Federal do Paraná, [2]Universidade Federal de São Carlos - Campus: São Carlos

SP1-A10 - Synthesis Procedure And Characterization Of Spinel $Bi_xco_{2-X}mno_4$ (X=0.0 And 0.3) Using The Modified Polymeric Precursor Method

Maria Elenice Santos[1], Rafael Aparecido Ferreira, Paulo Noronha Lisboa-Flho; [1]Universidade Estadual Paulista Júlio de Mesquita Filho

SP1-A11 - Synthesis and structural characterization of manganites $(Ni,Co,Cu)Mn_2O_4$ by the Rietveld method

Melânia Cristina Mazini[1], Paulo Noronha Lisboa-Flho; [1]Universidade Estadual Paulista "júlio de Mesquita Filho"

SP1-A12 - Morphological and Magnetic Characterization of Nickel Nanoparticles Embedded in Polyvinyl Alcohol Nanowires

Diogo Anderson Neves[1], André Sionek[1], Dante Homero Mosca[1], José . Varalda, Adilson J A de Oliveira[2], Cyro Ketzer Saul; [1]Universidade Federal do Paraná, [2]Universidade Federal de São Carlos - Campus: São Carlos

SP1-A13 - Use of magnetic markers for non-destructive evaluation of polymer composites Polyester/Barium Ferrite for applications in pipelines to transport oil and natural gas.

Josy Oliveira[1], José Daniel Diniz Melo, Carlos Alberto Paskocimas; [1]Universidade Federal do Rio Grande do Norte

SP1-A14 - Characterization of magnetic particles coated with polyaniline for enzyme immobilization

Jackeline da Costa Maciel[1], Elaine Martins Moura, Priscyla Lima de Andrade[1], Valdeene Albuquerque Jansen da Silva[1], José Albino Aguiar, Maria da Paz Carvalho da Silva, Luiz Bezerra de Carvalho Júnior; [1]Universidade Federal de Pernambuco

SP1-A15 - Magnetic irreversibility behavior in epitaxial thin films and melt-textured YBaCuO samples

Fábio Teixeira Dias, Valdemar Das Neves Vieira[1], Douglas Langie da Silva, Moisés Leonardi de Almeida, Jacob Schaf, Xavier Obradors, Joan Josep Roa Rovira; [1]Instituto de Física E Matemática - Universidade Federal de Pelotas

SP1-A16 - Microstructural and electrical characteristics of commercial high-critical temperature superconducting tapes

André Avancini Bernardes[1], Carlos Alberto Baldan, Jérika Suely Lamas, Ernesto Rupert Filho, Carlos Yujiro Shigue; [1]Escola de Engenharia de Lorena - Universidade de São Paulo

SP1-A17 - Grain size and magnetic properties in electrical steels

Frank Patrick Missell, Daniel L Rodrigues Jr., João Ricardo Filipini da Silveira, Marcos Fukuhara, Felipe Schiochet Bertoldo Girotto, Gunther Johannes Lewczuk Gerhardt, Fernando José Gomes Landgraf

SP1-A18 - Synthesis and Characterization of Magnetic Ionic Liquids

Anderson Mateus Mendonça Medeiros[1], Joel Camargo Rubim[1], Kaian Amorim Teles, Alexandre Luis Parize[1], Vanda Maria de Oliveira, Brenno Amaro da Silveira Neto; [1]Universidade de Brasília

SP1-A19 - Synthesis of oxide superconductors by microwave

Regiane Godoy Lima[1], Claúdio Luiz Carvalho, Rafael Zadorosny, Silvio Rainho Teixeira[2], Agda Eunice Souza[2]; [1]Universidade Estadual Paulista "júlio de Mesquita Filho" - Campus Ilha Solteira, [2]Fct-Unesp Campus de Presidente Prudente

SP1-A20 - Incorporation piplartine in Fe_3O_4/CL Nanocomposite: Potential system for Drug Delivery

Rafael Melo Freire, Antonio César Honorato Barreto, Vivian Romero Santiago, Otília Deusdênio Loiola Pessoa, Nágila Maria Pontes Silva Ricardo, Pierre Basílio Almeida Fechine[1], Selma Elaine Mazzetto; [1]Universidade Federal do Ceará

SP1-A21 - Ferrofluids obtained from magnetic spinel nanoparticles and renewable material

Vivian Romero Santiago, Viviane G. P. Ribeiro, Francisco Jonas M Maia, Antonio César Honorato Barreto, Selma Elaine Mazzetto, Pierre Basílio Almeida Fechine[1]; [1]Universidade Federal do Ceará

SP1-A22 - Characterization of the evolution of recrystallization by fluctuation and fractal analyses of the magnetic hysteresis loop in a cold rolled non-oriented electric steel

Francisco Estênio da Silva, Francisco Nelio Costa Freitas, Hamilton Ferreira Gomes de Abreu, Lindberg

Lima Gonçalves, Elineudo Pinho de Moura, Manoel Ribeiro da Silva[1]; [1]Universidade Federal de Itajubá

SP1-A23 - Monte Carlo study of nanoparticles magnetic behavior

Fabiana Rodrigues Arantes, Daniel Reinaldo Cornejo[1]; [1]Instituto de Física

SP1-A24 - Structural analysis by Rietveld method of Ni-Zn nanoferrites synthesized by combustion reaction in a microwave oven

Débora Albuquerque Vieira, Veronica Cristhina Diniz, Ruth Herta Kiminami, José Marcos Sasaki, Ana Cristina Figueiredo de Melo Costa

SP1-A25 - Study of phase transformations in a duplex stainless steel by magnetic permeability measurement using Hall effect sensors

David Domingos Soares Silva[1], José Luiz Gomes Neto, Ana Caroline Romão Ferreira Feitosa, Edgard Macedo Silva, Josinaldo Pereira Leite; [1]Instituto Federal de Educação, Ciência E Tecnologia da Paraíba

SP1-A26 - Microstructure of superconductor/ferromagnet Nb/Co multi-layers

Liying Liu, Ury Denver Chacón Hernandez, Willian Alayo, Justiano Quispe, Noemi Raquel Checca[1], Elisa Baggio Saitovitch, Ivan Guillermo Solórzano-Naranjo; [1]Universidade Federal Fluminense

SP1-A27 - Structural study of magnetic nanoparticles/Gelatin-Chitosan biocomposite

Yale Luck Nunes[1], Antonio César Honorato Barreto, Júlio Cesar Góes, Sonia Duarte Figueiró, Vivian Romero Santiago, Selma Elaine Mazzetto, Pierre Basílio Almeida Fechine[1]; [1]Universidade Federal do Ceará

SP1-A28 - Synthesis and Characterization of Superparamagnetic Iron Oxide Nanoparticles for Biomedical Applications

Paula Silvia Haddad[1], Miguel Angel Mosquera Molina[2,3], Amedea Barozzi Seabra, Rosangela Itri, Marcelo Ganzarolli de Oliveira, Maurício da Silva Baptista; [1]Universidade Federal de São Paulo, [2]Universidade de São Paulo, [3]Instituto de Física

SP1-A29 - Synthesis of magnetic diatomaceous earth and polyaniline composite for invertase immobilization

Sílvia Guedes Braga[1], Mariana Paola Cabrera[1], Luciana Silveira Lopes, Luiz Bezerra de Carvalho Júnior; [1]Universidade Federal de Pernambuco

SP1-A30 - Structural and magnetic characterization of bcc-Co thin films deposited by sputtering

Noemi Raquel Checca[1], David Goes, Willian Edgardo Alayo, Yutao Xing[1], Elisa Baggio Saitovitch; [1]Universidade Federal Fluminense

SP1-A31 - Characterization of novel magnetic composite: natural diatomite coated with polyaniline (PANI)

Mariana Paola Cabrera[1], David Fernando Morais Neri, Fernando Soria, Luiz Bezerra de Carvalho Júnior; [1]Universidade Federal de Pernambuco

SP1-A32 - Printed circuit boards made of superconductor material

Gisele A Souza[1], Claúdio Luiz Carvalho, Guilherme Botega Torsoni, Rafael Zadorosny, Vivian Delmute Rodrigues[2], João Borges da Silveira; [1]Universidade Estadual Paulista "júlio de Mesquita Filho" - Campus Ilha Solteira, [2]Universidade Estadual Paulista "júlio de Mesquita Filho"

SP1-A33 - Effects of doping on the electrical, magnetic, morphological and structural properties of BSCCO superconducting system with rare earth element

Vivian Delmute Rodrigues[1], Claúdio Luiz Carvalho, Rafael Zadorosny, Gisele A Souza[2], Elton José de Souza, Guilherme Botega Torsoni, João Borges da Silveira; [1]Universidade Estadual Paulista "júlio de Mesquita Filho", [2]Universidade Estadual Paulista "júlio de Mesquita Filho" - Campus Ilha Solteira

SP1-A34 - Effectn0f the Zn content in the magnetic properties of $Co_{1-x}Zn_xFe_2O_4$ mixed ferrites

Adolfo Franco Jr, Frederico Costa Silva

SP1-A35 - Characterization of fucan-coated cobalt ferrite nanoparticles and application for immobilization

Priscyla Lima de Andrade[1], Jackeline Costa Maciel, Valdeene Albuquerque Jansen da Silva[1], Nelson Orlando Moreno, Sônia Maria Barreto Pereira, Maraia da Paz Carvalho Silva[1], José Albino Aguiar; [1]Universidade Federal de Pernambuco

SP1-A36 - Synthesis of multiferroic thin films of $Eu_{1-x}Ba_xTiO_3$

Marcio Sena Curvello, Daniel Felipe Simião[1], Alessandra Zenatti[1], Marcia Tsuyama Escote; [1]Universidade Federal do Abc

SP1-A37 - Characterization and application of magnetite-fucan nanoparticles

Valdeene Albuquerque Jansen da Silva[1], Priscyla Lima de Andrade[1], Jackeline da Costa Maciel[1], Maraia da Paz Carvalho Silva[1], José Albino Aguiar; [1]Universidade Federal de Pernambuco

SP1-A38 - Effects of Order-Desorder Reactions on Rapidly Quenched Fe-6.5%Si Alloy

Mário Cezar Alves da Silva, Maria Dorotéia Costa Sobral[1], Rodrigo Estevam Coelho, Claudemiro

Bolfarini; [1]Instituto Federal de Educação, Ciência E Tecnologia da Bahia

SP1-A39 - Investigation of some physical properties magnetic graphite nanoparticle for potential application as drug delivery systems

Rafaella Takehara Paschoalin[1], Humberto Mello Brandão, Fernando Araujo Moreira, Paulo Sergio de Paula Herrmann[1]; [1]Embrapa Instrumentação

SP1-A40 - Synthesis and self-assembly of shape-controlled $L1_0$-FePt nanoparticles by a temperature-modulated process

Tiago Luis da Silva, Laudemir Carlos Varanda[1]; [1]Instituto de Química de São Carlos

SP1-A41 - Iron oxide-coated bimetallic magnetic nanoparticles: improved magnetic properties and functionalization for biomedical applications

Watson Beck Jr.[1], Laudemir Carlos Varanda[2]; [1]Universidade de São Paulo - Instituto de Química de São Carlos, [2]Instituto de Química de São Carlos

SP1-A42 - Magnetic particles coated with polymers for enzyme immobilization

Elaine Martins Moura, Jackeline da Costa Maciel[1], Priscyla Lima de Andrade[1], Valdeene Albuquerque Jansen da Silva[1], Luiz Bezerra de Carvalho Júnior, Maraia da Paz Carvalho Silva[1]; [1]Universidade Federal de Pernambuco

SP1-A43 - Electrical current influence on resistance and localization length in a Co-Al_2O_3 granular thin film

Marco Aurélio Silveira Boff, Bárbara Canto Dos Santos[1], Ruth Hinrichs, Luis Gustavo Pereira, Fabiano Mesquita, João Edgar Schmidt, Gilberto Luiz Fraga; [1]Universidade Federal do Rio Grande do Sul

SP1-A44 - Morphological properties in partial melt-textured YBaCuO superconductor

Cristol de Paiva Gouvêa[1], Fábio Teixeira Dias, Valdemar Das Neves Vieira[1]; [1]Instituto de Física E Matemática - Universidade Federal de Pelotas

SP1-A45 - Magnetization and magnetoresistance First-Order-Reversal-Curves in spin-valves

Leonardo Alonso, Daniel Reinaldo Cornejo[1], Luiz Carlos Camargo Miranda Nagamine[2]; [1]Instituto de Física, [2]Instituto de Física da Universidade de São Paulo

SP1-A46 - Impedance and Magnetoimpedance of Reentrant Magnetic Alloys σ-FeCr and AuFe

Reginaldo Barco[1], Paulo Pureur, Gilberto Luiz Fraga, Stanislaw M. Dubiel; [1]Universidade Federal do Rio Grande do Sul

SP1-A47 - Magnetic properties of BNNTs containing Fe catalysts for bioapplication

Anderson Augusto Freitas[1], Tiago Hilário Ferreira[1], Waldemar Augusto de Almeida Macedo, Edésia Martins Barros de Sousa[1]; [1]Centro de Desenvolvimento da Tecnologia Nuclear

SP1-A48 - Structure and magnetism of epitaxial Ni films on Pd(100)

Diego Pinheiro Aun[1], Pedro Lana Gastelois, Maximiliano Delany Martins, Waldemar Augusto de Almeida Macedo; [1]Centro de Desenvolvimento da Tecnologia Nuclear

SP1-A49 - Magnetite and gold nanoparticles conjugated in a core-satellite nanostructure for biomedical applications.

Daniel Angeli Moraes, Watson Beck Jr.[1], Tiago Luis da Silva, Laudemir Carlos Varanda[2]; [1]Universidade de São Paulo - Instituto de Química de São Carlos, [2]Instituto de Química de São Carlos

SP1-A50 - New one-step synthesis of magnetite/alginic acid colloidal dispersion assisted by ultrasonic radiation

João Batista Pereira Júnior[1], Walter Mendes de Azevedo; [1]Universidade Federal de Pernambuco

SP1-A51 - Study of the formation of superconducting MgB_2 in the presence of titanium dioxide

Marcos Yukio Kussuda, Dayse Iara Dos Santos[1], Anne Hitomi Yonamine, Nelson Delgado Torrecilha; [1]Faculdade de Ciências de Bauru - Unesp

SP1-A52 - Morphology Control of Magnetic Iron Oxide Nanoparticles Produced by Co-precipitation

Geronimo Perez, Maria Paulina Romero, Ivan Guillermo Solórzano-Naranjo, Sonia Renaux Louro

SP1-A53 - Magnetic properties of $Mn_{1-x}Al_{1-y}Cu_{x+y}$ alloys in the cubic phase.

João Carlos Krause, Clederson Paduani, Jacob Schaf, José Domingos Ardisson

SP1-A54 - Silver concentration influence on magenetic-metalic Ag-Fe3O4 dimer nanopcomposites

Diego Muraca[1], Gleyguestone Lopes, Surender Sharma, Leandro M. Socolovsky[2,3], Abner de Siervo[3], Kleber Roberto Pirota; [1]Universidade Estadual de Campinas, [2]Universidad de Buenos Aires, [3]Consejo Nacional Investigaciones Científicas Y Tecnológicas

SP1-A55 - Structural and Magnetic Properties of Ni_2MnSb and Cu_2MnSb Heusler Alloys.

Caroline Barlette da Cunha[1], Emily Balzan[2], João Carlos Krause, Clederson Paduani, Jacob Schaf; [1]Universidade Regional E Integrada do Alto Uruguai E Das Missoes, [2]Universidade Regional

Integrada do Alto Uruguai E Das Missões

SP1-A56 - Study of Mn-Ga System Grown by Molecular Beam Epitaxy on GaAs(111)B

Alexandre Werner Arins[1]; [1]Universidade Federal do Paraná

SP1-A57 - Functional Nanocomposite Based on the Natural Rubber: an Innovative Material with Potential at Electromagnetic Wave Absorber

Felipe Silva Bellucci, Claudio Arroca, Miguel Angel Rodríguez-Pérez, Manoel Ribeiro da Silva[1], Marcos Augusto de Lima Nobre, Aldo Eloizo Job; [1]Universidade Federal de Itajubá

SP1-A58 - Mechanical stress in FM/NM/FM trilayers grown on flexible polyimide

Thatyara Freire de Souza[1], Luis Eugenio Fernandez Outon[2], Waldemar Augusto de Almeida Macedo; [1]Centro de Desenvolvimento de Tecnologia Nuclear, [2]Centro de Desenvolvimento da Tecnologia Nuclear

SP1-A59 - Magnetic and structural properties of alloys of the new series $Mn_{2-x}Fe_xSn$

Sergio Gama, Paula de Oliveira Ribeiro[1], Adelino de Aguiar Coelho, Julio Cesar Guimarães Tedesco, Taeko Yonamine Fukuhara, Marcos Fukuhara, Alexandre Magnus Gomes Carvalho[2]; [1]Universidade do Estado do Rio de Janeiro, [2]Inmetro

SP1-A60 - Magnetic irreversibility in the $YBa_{2-x}Sr_xCu_3O_{7-\delta}$ superconductor

Ana Paula Aguiar de Mendonça, Valdemar Das Neves Vieira[1], Rovan Fernandes Lopes, Fábio Teixeira Dias, Paulo Pureur, Jacob Schaf; [1]Instituto de Física E Matemática - Universidade Federal de Pelotas

SP1-A61 - Influence of functionalization in synthesis of magnetic nanoparticles

Monique Bezerra Holanda de Lima[1], Segundo Nilo Mestanza Munoz[1], Anderson Orzari Ribeiro[1], Manuel Pedro Fernandes Graça; [1]Universidade Federal do Abc

SP1-A62 - Properties of Superconductor/Ferromagnet (SC/FM) Multilayers

Ury Denver Chacón Hernandez, Willian Edgardo Alayo, Yutao Xing[1], Elisa Baggio Saitovitch; [1]Universidade Federal Fluminense

SP1-A63 - Structural and magnetic properties of $LaMnO_3$ half-doped with Cr and Fe

Petrucio Barrozo da Silva[1], Leanio Moraes Dos Santos, Nelson Orlando Moreno, José Albino Aguiar; [1]Universidade Federal de Sergipe

SP1-A64 - Study of tunneling in Tunnel Junctions CoFeB/MgO/CoFeB

Rafael Domingues Della Pace[1], Thiago José de Almeida Mori[1], Paloma Boeck Souza[1], Matheus Gamino Gomes[1], Lucio Strazzabosco Dorneles[1]; [1]Universidade Federal de Santa Maria

SP1-A65 - Cobalt related complexes in AlN: Physics properties investigation by first-principles

Rolando Larico Mamani[1], Lucy V. Credidio Assali[2], Ronei Miotto; [1]Universidade de São Paulo, [2]Instituto de Física da Universidade de São Paulo

SP1-A66 - Study of structural and magnetic properties of magnetic dilution in the pyrochlore $Gd_2Ru_2O_7$

Flávia Santos Portela[1], Maria Danielle Rodrigues Marques[1], Daniela Rodrigues Borba Valadão, Petrucio Barrozo da Silva[2], José Albino Aguiar; [1]Universidade Federal de Pernambuco, [2]Universidade Federal de Sergipe

SP1-A67 - Study of the normal-superconductor phase transition in a granular $Y_{0.25}Gd_{0.25}Er_{0.25}Nd_{0.25}Ba_2Cu_3O_{7-\delta}$ high temperature superconductor

Rosângela Menegotto Costa[1], Alana Roberta Antonieto Kavamoto, Pedro Rodrigues Júnior, Adilson Luiz Chinelatto; [1]Universidade Federal do Rio Grande

SP1-A68 - Critical current density in the $YBa_{2-x}Sr_xCu_3O_{7-\delta}$ superconductor

Rovan Fernandes Lopes, Valdemar Das Neves Vieira[1], Ana Paula Aguiar Mendonça, Fábio Teixeira Dias, Paulo Pureur, Jacob Schaf; [1]Instituto de Física E Matemática - Universidade Federal de Pelotas

TUESDAY , SEPTEMBER 27TH

SESSION SP2
14:00 - 16:00 - Exhibition Hall

SP2-A69 - Magnetic inductive heating in nanostructured ferrites

Adriana Silva de Albuquerque, Patrícia Mariana Alves Caetano, Monique Grazielle Cruz, José Domingos Ardisson, Luis Eugenio Fernandez Outon[1], Waldemar Augusto de Almeida Macedo; [1]Centro de Desenvolvimento da Tecnologia Nuclear

SP2-A70 - Effect of Ho dopping on the structural, microstructural, eletrical and magnetic properties of Ruthenium Pyrochlores $Gd_{2-x}Ho_xRu_2O_7$ ($0 \leq x \leq 2$)

Maria Danielle Rodrigues Marques[1], Flávia Santos Portela[1], Daniela Rodrigues Borba Valadão, Petrucio Barrozo da Silva[2], José Albino Aguiar; [1]Universidade Federal de Pernambuco, [2]Universidade Federal de Sergipe

SP2-A71 - Comparison of different methods of synthesis of Bismuth Ferrite- BiFeO3 and Manganite- BiMnO3
Kamila Felisardo de Farias, Méri Domingos Vieira, João Paulo Sinnecker, Luiz Augusto Sousa de Oliveira[1]; [1]Universidade Estadual de Campinas

SP2-A72 - Magnetic properties of ε-Fe_3N nanoparticles obtained by mechanical alloying
Francisco José Garanhani, Marcia Carvalho de Abreu Fantini[1], Daniel Reinaldo Cornejo[2]; [1]Instituto de Física da Universidade de São Paulo, [2]Instituto de Física

SP2-A73 - Confinement of spin density waves in Cr films
Enrique Eduardo Kaul[1], Hernan Pastoriza, Eduardo Jose Osquiguil; [1]Comision Nacional de Energia Atomica

SP2-A74 - Effects of Pressure on Clathrate $Ce_3Pd_{20}Ge_6$
Hiroyuki Hidaka[1], Shinya Otani, Tatsuya Yanagisawa, Hiroshi Amitsuka, Scheilla Maria Ramos[1], Eduardo Hering[1], Elisa Baggio Saitovitch; [1]Centro Brasileiro de Pesquisas Físicas

SP2-A75 - Josephson effects in Bi-Pb-Sr-Ca-Cu ceramic superconductor
Gustavo Quereza Freitas[1], Claúdio Luiz Carvalho, Gisele A Souza[1], Guilherme Botega Torsoni, Regiane Godoy Lima[1]; [1]Universidade Estadual Paulista "júlio de Mesquita Filho" - Campus Ilha Solteira

SP2-A76 - MFM and AFM measurements of Co/Au multilayers
Henrique Duarte da Fonseca Filho[1], Maria Souza, Fernando Pelegrini, Justiniano Quispe-Marcatoma[2], Willyan Ayalo, Elisa Baggio Saitovitch; [1]Universidade Federal do Amapá, [2]Centro Brasileiro de Pesquisas Físicas

SP2-A77 - Effects of pressure and magnetic field on the in-plane electrical resistivity of $Y_{1-x}Ca_xBa_2Cu_3O_7$ single crystals
Sandra Teixeira Jaeckel, Valdemar Das Neves Vieira[1], Lutiene Fernandes Lopes, Ana Paula Aguiar Mendonça, Rovan Fernandes Lopes, Leticie Mendonça Ferreira, Sabrina Esperança Nunes; [1]Instituto de Física E Matemática - Universidade Federal de Pelotas

SP2-A78 - Investigation of the structure and magnetic characteristic ob the iron pyrochlore.
Graciele Berndt, Andrea Paesano, João J. B. M. da Cunha, Olivier Isnard

SP2-A79 - Doped ZnO obtained from thermal treatment of ZnO + (Mn, Fe or Co) acetate freeze-dried powders
Antônio Oliveira Souza, Fabio Rogerio Longen, Jusmar Valentin Bellini, Andrea Paesano

SP2-A80 - The deposition of VO_2 thin films by DC reactive magnetron sputtering: optimizing the deposition parameters
Paloma Boeck Souza[1], Thiago José de Almeida Mori[1], Rafael Domingues Della Pace[1], Evgeni Svenk Cruz Gracia, Luiz Fernando Schelp; [1]Universidade Federal de Santa Maria

SP2-A81 - Growth of $Ni_{81}Fe_{19}$ thin films for anisotropic magnetoresistance applications. nisotropic magnetoresistance applications.
Thiago José de Almeida Mori[1], Paloma Boeck Souza[1], Rafael Domingues Della Pace[1], Lucio Strazzabosco Dorneles[1], Luiz Fernando Schelp; [1]Universidade Federal de Santa Maria

SP2-A82 - Investigation of the magnetic vortex configuration in regular arrays of ferromagnetic microstructures
Sofia Oliveira Parreiras, Maximiliano Delany Martins

SP2-A83 - Magnetic properties of Co/Au multilayer
Justiniano Quispe-Marcatoma[1], Willian Edgardo Alayo, Marcos Antonio de Sousa, Fernando Pelegrini, Elisa Baggio Saitovitch; [1]Centro Brasileiro de Pesquisas Físicas

SP2-A84 - Influence of Co nanoparticles deposited at NiFe/IrMn interface on the magnetic properties
Luiz Carlos Camargo Miranda Nagamine[1], Gabriel Teixeira Landi[1], Julian Geshev, Antonio Domingues Santos[2]; [1]Instituto de Física da Universidade de São Paulo, [2]Instituto de Física

SP2-A85 - Molecular Orbital Calculations On The Superstructure Of Ybco With Delta 0,5
Jorge Manso Rocha[1]; [1]Universidade Federal de Sergipe

SP2-A86 - Extraordinary Hall effect in Co/CoO films grown by sequential deposition
Matheus Gamino Gomes[1], Juliano Casagrande Denardin, Luiz Fernando Schelp, Lucio Strazzabosco Dorneles[1]; [1]Universidade Federal de Santa Maria

SP2-A87 - Schottky Emission in $Ga_{1-X}Mn_XAs$ Nanocrystalline Films Prepared by Sputtering
João Carlos Angelico[1], João Carlos Angelico[1], José Humberto Dias da Silva; [1]Universidade Paulista

SP2-A88 - High frequency permeability in NiFe/IrMn/Ta exchange biased multilayers
Roberta Dutra de Oliveira Pinto[1], Diego González Chávez[1], Antonio Marcos H. de Andrade, Rubem Luis Sommer[1]; [1]Centro Brasileiro de Pesquisas Físicas

SP2-A89 - Development of Microscopic Magnetic Devices by Near Field Optical Lithography
Jeferson Tiago Silva[1], Mariana Pojar[2], Luiz Carlos Camargo Miranda Nagamine[3], Antonio Domingues Santos[3]; [1]Instituto de Física, [2]Polytechnic School At Universidade de São Paulo (Usp), [3]Instituto de Física da Universidade de São Paulo

SP2-A90 - The Hall coefficient of $YBa_2Cu_3O_{7-\delta}$ thin films and effects of strong disorder
Paula de Azambuja Sobocinski[1], Paulo Pureur, Fábio Teixeira Dias, Teresa Puig, Xavier Obradors; [1]Universidade Federal do Rio Grande do Sul

SP2-A91 - Production and characterization of Perovskite compounds Nanowires by Electrospinning
Daniel Felipe Simião[1], Alessandra Zenatti[1], Juliana Alves Pereira Sato, Everaldo Carlos Venancio, Márcia Tsuyama Escote[1]; [1]Universidade Federal do Abc

SP2-A92 - MgB_2 samples with addition of VB_2, SiC, graphite, and carbon nanotubes: microstructural characterization
Vivian Cristina Velloso Metzner[1], Lucas Barboza Sarno da Silva[2], Durval Rodrigues Júnior; [1]Escola de Engenharia de Lorena - Usp, [2]Escola de Engenharia de Lorena - Universidade de São Paulo

SP2-A93 - Engineering Fluorescent Quantum Dots for Potential Biomedical Applications
Herman Sander Mansur[1], Alexandra Apisicitelli Mansur, Vanessa Schatkoski; [1]Universidade Federal de Minas Gerais

SP2-A94 - TaB_2 and VB_2 addition in the MgB_2 superconductor, and co-doping with SiC
Lucas Barboza Sarno da Silva[1], German Dario Serrano, Adriana Cristina Serquis, Vivian Cristina Velloso Metzner[2], Eric E. Hellstrom, Durval Rodrigues Júnior; [1]Escola de Engenharia de Lorena - Universidade de São Paulo, [2]Escola de Engenharia de Lorena - Usp

SP2-A95 - Evaluation of the precursor reactants for the non-aqueous synthesis of iron oxide nanoparticles
Fernando Barbosa de Freitas Silva[1,2], Elaine Cristina Paris, Caue Ribeiro de Oliveira; [1]Embrapa Instrumentação, [2]Universidade de São Paulo - Instituto de Química de São Carlos

SP2-A96 - Magnetic metal-carbon composite functionalized with acrylic acid for biotechnological application
Gabriele Campbell Link[1,2], Andressa de Lima Sievers, Rogério Almeida Gouvêa[3], Angelo Max Silveira de Oliveira, Sergio da Silva Cava, Neftalí Lenin Villarreal Carreño; [1]Centro de Ciências Químicas, Farmacêuticas E de Alimentos, [2]Universidade Federal de Pelotas - Centro de Ciências Químicas, Farmacêuticas E de Alimentos, [3]Universidade Federal de Pelotas

SP2-A97 - Structural and magnetic properties of X_2YZ-type Heusler alloys in $Fe_{2+X}V_{1-X}Al$ alloys.
Walmir Eno Pottker, José Pedro Mansueto Serbena[1]; [1]Universidade Tecnológica Federal do Paraná

SP2-A98 - A New Biomagnetic Method To Evaluate Gastrointestinal Transit Time And Gastric Emptying In Small Animal Models
José Ricardo Miranda, Madileine Américo, Marcos Felipe Calebresi, Caio César Quini

SP2-A99 - Structural Analysis Of Ferrite Mn0,65zn0,35fe2o4: Determination Crystallite Size
Rafaela Luiz Pereira Santos[1], Pollyana Caetano Ribeiro, Débora Albuquerque Vieira, José Marcos Sasaki, Ana Cristina Figueiredo de Melo Costa; [1]Universidade Federal de Campina Grande

SP2-A100 - Analysis of use magnetic particles of Co/C in removing of oil deposited into superficial waters.
Gabriele Campbell Link[1,2], Andressa de Lima Sievers, Angelo Max Silveira de Oliveira, Neftalí Lenin Villarreal Carreño, Margarete Regina Freitas Gonçalves, Rogério Almeida Gouvêa[3], Marcia Foster Mesko; [1]Centro de Ciências Químicas, Farmacêuticas E de Alimentos, [2]Universidade Federal de Pelotas - Centro de Ciências Químicas, Farmacêuticas E de Alimentos, [3]Universidade Federal de Pelotas

SP2-A101 - Influence of surfactants on morphology and conducting properties of polypyrrole
Regiane Aparecida Medeiros Campos, Mirabel Cerqueira Rezende, Roselena Faez

SP2-A102 - Magneto-plasmonics studies on MO-SNOM
Fabio Lombardi Maximino[1], Gabriel Teixeira Landi[1], Antonio Domingues Santos[2]; [1]Instituto de Física da Universidade de São Paulo, [2]Instituto de Física

SP2-A103 - Mossbauer Study of the quase-one-dimensional An+2Con+1O3n+3 (A=Ca, Sr, Ba; n=1-7,∞)
Mariella Alzamora, Elisa Baggio Saitovitch, Dalber R Sanchez

SP2-A104 - Synthesis, Crystal Structure and Magnetism of two newcobalt(II) cubane-like

compounds
Ghilherme Pereira Guedes, Stéphane Soriano, Nadia Maria Comerlato, Miguel Alexandre Novak, Maria Das Graças Fiaho Vaz

SP2-A105 - Thermal fluctuations near the transition in $YBa_2Cu_3O_{7-\delta}$ films growth over three different substrates
Omar Ortiz Ortiz-Diaz, David Arsenio Landinez, Jairo Roa-Rojas

SP2-A106 - Magnetic Nanocolloids based on Mixed Ferrite Nanoparticles
Renata Aquino[1], Priscilla Coppola Rodrigues, Dyego Araujo Costa, Francisco Augusto Tourinho[1], Jerome Depeyrot; [1]Universidade de Brasília

SP2-A107 - Synthesisof $NiFe_2O_4$ nanoparticles and functionalization with fattyacids found in Andiroba oil (Carapa guianensis Aubl oil)
Jorge Luis Lopez Aguilar[1], Tatiane Muniz Silva[1], Roberto Magalhães Paniago, Hans D.- Pfannes, Jose Higino Dias Filho; [1]Universidade Federal do Acre

SP2-A108 - Evaluation of austenite transformation from M/A constituent in grade X80 pipeline steel under plastic deformation condition
Alan Barros Almeida, Fernando José Gomes Landgraf, Rodrigo Magnabosco, Helio Goldenstein[1]; [1]Escola Politécnica da Universidade de São Paulo

SP2-A109 - Structural ordering of Sr_2CuMnO_6 new perovskite by X-ray diffraction studies
Ximena Elizabeth Puentes, Davian Martínez, Omar Ortiz-Diaz

SP2-A110 - Superconducting Nb films produced by DC sputtering technique
Danusa do Carmo[1], Thiago José de Almeida Mori[1], Rafael Domingues Della Pace[1], Fabiano Colauto, Antonio Marcos H. de Andrade, Ana Augusta Mendonça Oliveira; [1]Universidade Federal de Santa Maria

SP2-A111 - Studies on the ferromagnetic Kondo lattice $CeTiGe_3$ under high pressures
Scheilla Maria Ramos[1], Eduardo Hering[1], Hiroyuki Hidaka[1], Kausik Sengupta, Magda Fontes, Elisa Baggio Saitovitch; [1]Centro Brasileiro de Pesquisas Físicas

SP2-A112 - Substrate influence in the barrier quality of multiferroic tunnel junctions, model and experiments.
Martin Sirena[1]; [1]Instituto Balseiro

SP2-A113 - Preparation of nickel magnetic nanoparticles with pulsed laser ablation deposition technique
Yutao Xing[1], Juan Lucas Nachez, Stéphane Soriano, Dante Ferreira Franceschini; [1]Universidade Federal Fluminense

SP2-A114 - Production of $(Eu,Ba)TiO_3$ nanotubes
Alessandra Zenatti[1], Daniel Felipe Simião[1], Alexandre José de Castro Lanfredi, Edson Roberto Leite, Elson Longo, Márcia Tsuyama Escote[1]; [1]Universidade Federal do Abc

SP2-A115 - Possible Reentrant Superconductivity on $Ce_2Rh_{0.75}Ir_{0.25}In_8$ Heavy Fermion Compound
Eduardo Hering[1], Scheilla Maria Ramos[1], Hortencio Alves Borges, Magda Fontes, Elisa Baggio Saitovitch, Pascoal G. Pagliuso, Eduardo Bittar; [1]Centro Brasileiro de Pesquisas Físicas

SP2-A116 - Investigation of Ferromagnetism associated to defects in SnO_2 doped with Fe by means of Perturbed Gamma-Gamma Angular Correlation
Juliana Marques Ramos[1], Artur Wilson Carbonari, Thiago Martucci[1], Messias Souza Costa, Rajendra Narain Saxena; [1]Instituto de Pesquisas Energéticas E Nucleares

SP2-A117 - Synthesis, Characterization and Funcionalization of $CoFe_2O_4$ Nanoparticles with fatty acids found in Gergelim oil.
Tatiane Muniz Silva[1], Jorge Luis Lopez Aguilar[1], Roberto Magalhães Paniago, Hans D.- Pfannes, Jose Higino Dias Filho; [1]Universidade Federal do Acre

SP2-A118 - Multi-quantum echoes and coherence selection in $GdAl_2$ with zero-field NMR
Rodrigo de Oliveira Silva[1], Christian Ascona Rivera, José Roberto Tozoni, Edson Luiz Gea Vidoto, João Teles de Carvalho Neto, Tito José Bonagamba; [1]Instituto de Física de São Carlos

SP2-A119 - Nanocrystalization of FeSiB-based films
Marcos José Pereira Alves, José Gomes Filho, Diego González Chávez[1], Rubem Luis Sommer[1], Tatiana Lisboa Marcondes; [1]Centro Brasileiro de Pesquisas Físicas

SP2-A120 - Morphology of Conducting Bacterial Cellulose Nanocomposites with Polianiline - A SAXS study
Bluma Guenther Soares, Jessica Alves Marins[1], Karim Dahmouche[1]; [1]Universidade Federal do Rio de Janeiro

SP2-A121 - The Influence Of Calcining Ni-Zn Ferrite Doped With Cu^{2+}
Polyana Tarciana Araújo Dos Santos, Patrícia Tatiana Araújo Dos Santos, Ana Cristina Figueiredo Melo Costa

SP2-A122 - Paramagnetic state in manganites: homogenous or clustered picture?
Fabian Nima Ramirez[1], Jose Antonio Souza; [1]Universidade Federal do Abc
SP2-A123 - High field paramagnetic Meissner effect in hole doped $YBa_2Cu_3O_{7-\delta}$ single crystals
Valdemar Das Neves Vieira[1], Augusto Falck, Fábio Teixeira Dias, Paulo Pureur, Jacob Schaf; [1]Instituto de Física E Matemática - Universidade Federal de Pelotas
SP2-A124 - Magnetization dynamics damping in CoFeSiB microwires
Dieivase Chrischon, Kelly Sossmeier, João Paulo Gazola, Marcos Carara
SP2-A125 - An investigation of a small resistive fault current limiting device based on superconducting materials
Carlos Augusto Cardoso Passos[1,2], Marcos Tadeu D'azeredo Orlando, Jose Luis Passamai Jr, Humberto Belich Jr, Valdi Antonio Rodrigues Jr, Jussara Farias Fardin, Domingos Savio Simonetti; [1]Universidade Federal do Espírito Santo, [2]Carlos Passos
SP2-A126 - Study of electrical resistivity under high pressures of compound Ce3Ir4Sn13
Jackeline Rosario Collave Garcia[1], Hortencio Borges, Scheilla Maria Ramos[2], Eduardo Hering[2], Magda Fontes, Elisa Baggio Saitovitch, P Pagliuso; [1]Rio, [2]Centro Brasileiro de Pesquisas Físicas
SP2-A127 - High frequency permeability and magnetoimpedance measuremenets of Py/Ag multilayered films by vector network analyzer magnetometry.
Diego González Chávez[1], Tatiana Lisboa Marcondes, Antonio Marcos H. de Andrade, Rubem Luis Sommer[1]; [1]Centro Brasileiro de Pesquisas Físicas
SP2-A128 - A new superconductor-ferromagnet nano-composite: Co clusters in an amorphous Bi film
William H. Trujillo[1], Isabel C. Souza Dinóla, Yutao Xing[2], Elisa Baggio Saitovitch, Hans Micklitz; [1]Centro Brasileiro de Pesquisas Físicas, [2]Universidade Federal Fluminense
SP2-A129 - Structural and superconducting properties of $Sr_4A_2O_6Fe_2As_2$ (A=Sc, V) and $EuFe_2As_{1.4}P_{0.6}$ crystals studied through local probe techniques
Julian Andres Munevar Cagigas
SP2-A130 - Location of Fe aggregates in Yb films
Chachi Rojas-Ayala, Wiliam Trujillo, Isabel C. Souza Dinóla, Edson Passamani, Mathias Mraken, Elisa Baggio Saitovitch, Jochen Litterst
SP2-A131 - Location of Fe aggregates in Yb films
Chachi Rojas Ayala, William H. Trujillo[1], Isabel C. Souza Dinóla, Mathias Mraken, Elisa Baggio Saitovitch, Jochen Litterst; [1]Centro Brasileiro de Pesquisas Físicas
SP2-A132 - Magnetic and Electric Properties of Cadmium Films Containing Nanometer Size Clusters of Iron
William H. Trujillo[1], Pablo Munayco, Chachi Rojas Ayala, Isabel Cristina Souza Dinóla[1], Mathias Mraken, Elisa Baggio Saitovitch, Jochen Litterst; [1]Centro Brasileiro de Pesquisas Físicas
SP2-A133 - Synthesis and characterization of iron oxide nanorods for biomedical applications
Adriana Linhares Drummond[1], Tiago C. A. F. Rodrigues, Andris Figueiroa Bakuzis[2], Luciano Paulino Silva, Marcelo Henrique Sousa, Maria José Araujo Sales; [1]Universidade de Brasília, [2]Universidade Federal de Goiás
SP2-A134 - The influence of urea in the synthesis of iron oxide nanoparticles
Adriana Linhares Drummond[1], Tiago C. A. F. Rodrigues, Andris Figueiroa Bakuzis[2], Luciano Paulino Silva, Marcelo Henrique Sousa, Maria José Araujo Sales; [1]Universidade de Brasília, [2]Universidade Federal de Goiás

SYMPOSIUM B

Biodegradable Polymer Materials

Chairs

Cristina Tristão Andrade (UFRJ)
Marcos Lopes Dias (UFRJ)
Antônio Vicente (University of Minho)

ORAL PRESENTATIONS

* Invited Lecture

MONDAY , SEPTEMBER 26TH

SESSION B1
09:30 - 10:30 - Room 04

09:30 - B1.1*
Scale and stakes of mass transfer in materials development for novel food packaging technologies
Nathalie Gontard[1]; [1]Université Montpellier Ii Sciences Et Techniques Du Languedoc
10:00 - B1.2
Cytotoxicity of soft reline resins in murine

macrophage line RAW264.7
Carolina de Andrade Lima Chaves, Ana Lucia Machado[1], Carlos Alberto de Souza Costa, Carlos Eduardo Vergani, Pedro Paulo Chaves de Souza; [1]Faculdade de Odontologia de Araraquara-Unesp

10:15 - B1.3
Preparation and characterization of nanocellulose obtained at different conditions
Maria de Fátima Vieira Marques[1], Juliana Nascimento Lunz, José Carlos Freitas Mota; [1]Macromolecules Institute - Federal University Of Rio de Janeiro

SESSION B2
11:00 - 12:30 - Room 04

11:00 - B2.1*
Electrospinning of Biopolymers: Applications
Jose Maria Lagaron[1]; [1]Spanish Council For Scientific Research

11:30 - B2.2
Development of chitosan membranes with cationic porphyrins incorporated to eliminate microbial contaminants in water supply
Cintia Ramos Camargo[1], Wanessa de Cássia Martins Antunes Melo, Virginia da Conceição Amaro Martins, Ana Maria de Guzzi Plepis, Janice Rodrigues Perussi; [1]Universidade de São Paulo - Eesc/ifsc/iqsc

11:45 - B2.3
Physicochemical parameters of oil and polymer influence the supramolecular structure of nanocapsules
Fernanda Poletto[1], Luana Almeida Fiel, Gabriela Schaab[2], Silvia Guterres, Adriana Raffin Pohlmann; [1]Institute Of Chemistry - Federal University Of Rio Grande do Sul, [2]Federal University Of Rio Grande do Sul

12:00 - B2.4
Recycling and performance of saw-dust reinforced polypropylene composites obtained using reactively extruded maleated polypropylene.
Lucas Pereira Santos[1], Thais Sydenstricker Flores-Sahagun, Kestur G. Satyarayana; [1]Universidade Federal do Paraná

12:15 - B2.5
Rheological properties of regenerated silk fibroin (RSF):glycerol solutions
Marcelo Henrique Kravicz[1], Virginia da Conceição Amaro Martins, Ana Maria de Guzzi Plepis, Sergio Akinobu Yoshioka[1,2]; [1]Universidade de São Paulo, [2]Instituto de Química de São Carlos

SESSION B3
15:00 - 16:00 - Room 04

15:00 - B3.1*
Eco-friendly extracted agars: physicochemical and rheological characterisation and prospective applications
Maria Pilar Gonçalves[1], Ana Margarida Sousa; [1]Faculdade de Engenharia da Universidade do Porto

15:30 - B3.2
The use of biocompatible and biodegradable scaffolds to promote tissue engineering through the association of nanotechnology and stem cells
Daniela Steffens, Michelle Lersch, Cristiane Regina Scher, Rafael Otoniel Cunha, Michele Greque de Morais, Jorge Alberto Vieira Costa, Patricia Pranke[1]; [1]Federal University Of Rio Grande do Sul

15:45 - B3.3
Polymeric nanoparticles loaded local anesthetic articaine
Nathalie Ferreira Silva de Melo[1], Estefania Vangelie Ramos Campos, Eneida de Paula, André Henrique Rosa, Leonardo Fernandes Fraceto; [1]Universidade Estadual de Campinas

TUESDAY , SEPTEMBER 27TH

SESSION B4
09:30 - 10:30 - Room 04

09:30 - B4.1*
Controlled release of pimaricin by nanohydrogels of poly(N-isopropylacrylamide) inhibits yeast growth
Clara Fucinos, Lorenzo Pastrana Castro, Nelson Pérez Guerra, Issa Katime, María Luisa Rua, Lorenzo Pastrana Castro

10:00 - B4.2
Ropivacaine encapsulated in alginate-chitosan nanoparticles for topical anesthesia
Sheila Maria Stoco[1], Renato Grillo, Marcelo Lancellotti, Viviane Aparecida Queiroz, Leonardo Fernandes Fraceto, Eneida de Paula, Daniele Ribeiro de Araujo; [1]Universidade Estadual de Campinas

10:15 - B4.3
Effects of material hydrophilicity and emulsification process on entrapment of bovine hemoglobin
Felipe Fortes Lima[1], Cristina Tristão Andrade[1]; [1]Universidade Federal do Rio de Janeiro

SESSION B5
11:00 - 12:30 - Room 04

11:00 - B5.1*
Electrospinning Of Biodegradable Nanofibers And Nanocomposite Fibers: A Review Of Applications In Agriculture
Caue Ribeiro de Oliveira, Rodrigo Guerreiro Fontoura Costa, Juliano Elvis Oliveira, Gustavo de Paula, Luiz Caparelli Mattoso

11:30 - B5.2
Low field nmr characterization of biodegradable polymer nanocomposites
Emerson Oliveira Silva[1], Antonio Pádua Castello Branco Cunha, Mariana Sato de S. B. Monteiro, Mariana Bruno Rocha Silva, Cíntia Legramanti; [1]Instituto de Macromoléculas Professora Eloisa Mano

11:45 - B5.3
Viscoelastic properties of poly(lactic acid)/synthetic mica composites
Diego de Holanda Saboya Souza, Marcos Lopes Dias, Cristina Tristão Andrade[1]; [1]Universidade Federal do Rio de Janeiro

12:00 - B5.4
Preparation of PLLA/PDLA Stereocomplexes Using a Biocompatible Catalyst
Alexandre Carneiro Silvino[1], Priscila S Correa, Marcos Lopes Dias; [1]Universidade Federal do Rio de Janeiro

WEDNESDAY, SEPTEMBER 28TH

SESSION B6
09:30 - 10:30 - Room 04

09:30 - B6.1*
Natural hydrocolloids for nanotechnological applications in foods
António Augusto Vicente[1], Mafalda Aguiar Quintas, Miguel A. Cerqueira, Hélder D. Silva, Ana Cristina Pinheiro, Ana Isabel Bourbon, Maria da Graça Carneiro-Da-Cunha; [1]Universidade do Minho

10:00 - B6.2
Chemical stability of cotrimoxazole in front of it\'s insertion method in composits of PLGA and maghemite.
Emiliane Daher Pereira[1], Fernando Sousa Júnior; [1]Universidade Federal do Rio de Janeiro

10:15 - B6.3
In vivo study of blends composed by poly(vinylidene fluoride - trifluorethylene) P(VDF-TrFE) and corn starch
João Domingos Augusto Dos Santos Pereira[1], Rebeca Delatore Simões, Carlos José Leopoldo Constantino, Mariza Akemi Matsumoto, Leonardo Marques, Ângela Otta Mitie Kinoshita; [1]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

POSTER PRESENTATIONS

MONDAY , SEPTEMBER 26TH

SESSION SP1
16:00 - 18:00 - Exhibition Hall

SP1-B1 - The Effect of Gamma Radiation on Mechanical Properties of the Biodegradable Polymer poly(3-hydroxy butyrate) and poly(3-hydroxy butyrate-co-3-hydroxy valerate)
Leticia Maria Oliveira[1], Patricia Lopes Araújo, Elmo Silvano Araújo; [1]Fundação Universidade Federal do Vale do São Francisco

SP1-B2 - Mechanical Behavior of Sisal Treated Fiber-Reinforced Sand
Gislene Aparecida Santiago, Vagner Roberto Botaro, Nilo Cesar Consoli

SP1-B3 - Biodegradable polymer reinforced with *Agave silana*
Leticia Maria Oliveira[1]; [1]Fundação Universidade Federal do Vale do São Francisco

SP1-B4 - Viability Study of the use of Sisal Treated Fibers in Pavement Structures
Rodrigo Pires Leandro, Gislene Aparecida Santiago, Vagner Roberto Botaro

SP1-B5 - Formation of cobalt-Prussian blue nanoparticles on to bacterial cellulose membrane
Vagner Sargentelli, Hernane Silva Barud, Sidney José Lima Ribeiro

SP1-B6 - Ecobras^{tm}/Attapulgite Composites: Part I
Tatianny Soares Alves[1], Renata Barbosa, Laura Hecker de Carvalho, Eduardo Luis Canedo; [1]Universidade Federal de Campina Grande

SP1-B7 - Recycled polypropylene matrix composite reinforced with sugarcane bagasse fiber
Janaina Leite Howarth[1], Écio José Molinari[1], Bruno C. Silveira; [1]Sociedade Educacional de Santa Catarina - Ist/joinville

SP1-B8 - Thermal stability of extruded feed based on starch, albumin, and linseed
Fabiana Lindenberg Dos Santos[1], Kátia Gomes de Lima Araújo, Cristina Tristão Andrade[1]; [1]Universidade Federal do Rio de Janeiro

SP1-B9 - Development and characterization of aliphatic polyurethane and hydroxyapatite scaffold

for bone tissue regeneration
Sabina da Memória Cardoso de Andrade[1], Carmen Gilda Barroso Tavares Dias, Cecília Amélia de Carvalho Zavaglia; [1]Universidade Estadual de Campinas

SP1-B10 - Synthesis and characterization of chitosan-gelatin composites with hydroxyapatite
Davino Machado Andrade Neto[1], Júlio Cesar Góes, Sonia Duarte Figueiró, Nágila Maria Pontes Silva Ricardo, Pierre Basílio Almeida Fechine[1]; [1]Universidade Federal do Ceará

SP1-B11 - Gelatin-based electrolyte with SiO_2 nanoparticles
Natália Hadler Marins[1], Ellen Raphael, Neftalí Lenin Villarreal Carreño, Fabrício Ogliari, Agnieszka Pawlicka, César Antonio Oropesa Avellaneda; [1]Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais

SP1-B12 - Study and characterization of PVA electrospinning nanofibers
Fábio Gaino Curcio[1], Ligia Maria Manzine Costa, Mariselma Ferreira; [1]Fundação Universidade Federal do Abc

SP1-B13 - Evaluation of parameters of electrospinning to produce PCL membranes for drug delivery systems.
Fábio Gaino Curcio[1], Ligia Maria Manzine Costa, Mariselma Ferreira; [1]Fundação Universidade Federal do Abc

SP1-B14 - Application of the method EWF (Essential Work of Fracture) in evaluation of fracture toughness of PP composites with wood particles
Zora Ionara Gama Dos Santos, Marcelo Massayoshi Ueki, Marcelo Silveira Rabello, Rômulo Freitas Farias, Joyce Batista Azevedo

SP1-B15 - Comparison of release profiles of praziquantel from Solid Dispersion of 70-kDa Dextran and Sodium Starch Glycolate
Flávio Dos Santos Campos[1], Samanta Mansano Siqueira, Ana Luiza Ribeiro de Souza, Ana Doris de Castro, Maria Palmira Daflon Gremião; [1]Universidade Estadual Paulista "júlio de Mesquita Filho"

SP1-B16 - The use of the Bionics methodology in composite materials in Product Design: Case Study
Camila Loricchio Veiga[1], Mary Mitsue Yokosawa, Nelson Tavares Matias, Jorge Luiz Rosa, George Jackson de Moraes Rocha, Rosinei Batista Ribeiro; [1]Faculdades Integradas Teresa D´ávila

SP1-B17 - Characterization of the mechanical properties of wood of Araucaria angustifolia (Bertol.) Kuntze
Matheus Lemos Peres[1], Darci Alberto Gatto, Diego Martins Stangerlin, Leandro Calegari, Clovis Roberto Haselein, Rômulo Trevisan, William Gamino Güths[1]; [1]Universidade Federal de Pelotas

SP1-B18 - Electrospinnning process, parameters and applicability.
Sânia Maria Belísio Andrade[1], Rasiah Ladchumanandasivam; [1]Universidade Federal do Rio Grande do Norte

SP1-B19 - Preparation and characterization of Agar–based electrolyte with nickel oxide nanoparticles
Dalal Jaber Audeh[1], César Antonio Oropesa Avellaneda, Neftalí Lenin Villarreal Carreño, Ellen Raphael, Agnieszka Pawlicka; [1]Universidade Federal de Pelotas

SP1-B20 - Preparation and characterization of sodium risedronate-loaded polymeric blend microparticles
Aline de Arce Velasquez[1], Luana Motta Ferreira, Juliane Mattiazzi, Clarice Madalena Bueno Rolim, Letícia Cruz; [1]Universidade Federal de Santa Maria

SP1-B21 - Microencapsulation and characterization of a natural pigment using OSA starch as matriz material
Thaís Souza Passos[1], Marcelo Henrique Prado da Silva, Kátia Gomes de Lima Araújo, Maria Helena Rocha Leão; [1]Universidade Federal do Rio de Janeiro

SP1-B22 - Preparation and properties of starch nanocomposites
Adriane Medeiros Ferreira[1], Alessandra Luzia da Róz[2], Antonio Jose Felix Carvalho; [1]Universidade Federal de São Carlos, [2]Universidade Federal de São Carlos, Campus Sorocaba

SP1-B23 - Evaluation of morphologics characteristics of chitin and chitosan obtained by Litopenaus vanammei and Ucides cordados.
Sânia Maria Belísio Andrade[1], Rasiah Ladchumanandasivam; [1]Universidade Federal do Rio Grande do Norte

SP1-B24 - Spectroscopic and Thermal Study of Materials Obtained by N-Benzylation of Chitosan
Fernanda Stuani Pereira[1], Heliara Lopes do Nascimento, Alviclér Magalhães, Deuber Lincon Agostini, Martin Peter, Marcos Eberlin, Eduardo Pérez González; [1]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

SP1-B25 - Estimation of mechanical properties of wood of *Araucaria angustifolia*
André Luiz Missio[1], Michael Weiler, Darci Alberto

Gatto, Diego Martins Stangerlin, Leandro Calegari, Clovis Roberto Haselein, Rômulo Trevisan; [1]Universidade Federal de Pelotas

SP1-B26 - Characterization of wood quality of *Pinus taeda L.*

Michael Weiler, André Luiz Missio[1], Darci Alberto Gatto, Diego Martins Stangerlin, Leandro Calegari, Clovis Roberto Haselein, Rômulo Trevisan; [1]Universidade Federal de Pelotas

SP1-B27 - Determination of specific gravity weighted by volume of wood of three tree species

Tainise Vergara Lourençon[1], Bruno Dufau Mattos, Darci Alberto Gatto, Diego Martins Stangerlin, Leandro Calegari, Rafael Beltrame; [1]Universidade Federal de Pelotas

SP1-B28 - Influence of density on mechanical properties of MOR and MOE for wood of Pinus elliottii Engelm.

William Gamino Güths[1], Matheus Lemos Peres[1], Darci Alberto Gatto, Diego Martins Stangerlin, Clovis Roberto Haselein, Leandro Calegari, Rômulo Trevisan; [1]Universidade Federal de Pelotas

SP1-B29 - Characterization of wood Araucaria angustifolia attacked for wood decay agents by ultrasound

Tainise Vergara Lourençon[1], Bruno Dufau Mattos, Darci Alberto Gatto, Diego Martins Stangerlin, Leandro Calegari, Rafael Beltrame; [1]Universidade Federal de Pelotas

SP1-B30 - Silver nanoparticles and carboxymethylcellulose nanocomposites: Synthesis and surface properties

Marcia Regina de Moura[1], Luiz Caparelli Mattoso, Valtencir . Zucolotto; [1]Instituto de Física de São Carlos

SP1-B31 - Development of bactericidal nanocomposites for food packaging

Marcia Regina de Moura[1], Luiz Caparelli Mattoso, Valtencir . Zucolotto; [1]Instituto de Física de São Carlos

SP1-B32 - Effect of palmitic acid on structural properties of amylose-nimesulid complexes

Fernanda Mansano Carbinatto[1], Beatriz Ferreira Cury, Raul Cesar Evangelista; [1]Universidade Estadual Paulista - Araraquara

SP1-B33 - Respirometric study of PHB and PHBV films

Suely Patricia Costa Gonçalves[1], Adriano Uemura de Faria, Thayse Marques Passos, Jose Carlos Marconato, Sandra Mara Martins-Franchetti; [1]Universidade Estadual Paulista

SP1-B34 - Comparative study on two methods of MCC surface modification: Grafting and wetting.

Luciana Dos Santos Galvão, Amélia Severino Ferreira Santos

SP1-B35 - Evaluation of the thermal stability of chitin and chitosan.

Sânia Maria Belísio Andrade[1], Rasiah Ladchumanandasivam, Alcione Olinto Galvão[1], Débora Damasceno Belarmino, Luciene Mendes Ribeiro; [1]Universidade Federal do Rio Grande do Norte

SP1-B36 - Polyols formed from babassu oil and derivatives anhydride

Edson Cavalcanti da Silva Filho[1], Fernando Borges, Sergio H. B. Leal, N. C. Batista, N. C. Batista, N. C. Batista, N. C. Batista; [1]Universidade Federal do Piauí

SP1-B37 - Optimization of Ring Opening Mass Polymerization of ε -Caprolactone

Katiusca Wessler Miranda[1], Karilen Endler, Gabriela Patricio Nunes, Sérgio Henrique Pezzin; [1]Pontifícia Universidade Católica de Minas Gerais

SP1-B38 - Pea protein isolate as wall material in nutraceutical delivery system for sports nutrition

Camila Sousa Campos da Costa[1], André Mesquita Costa, Cristiana Melo Pedrosa, Maria Helena Rocha Leão, Anna Paola Trindade Rocha Pierucci; [1]Universidade Federal do Rio de Janeiro

SP1-B39 - Polymeric nanocapsules containing hydrolyzed starches as surfactant in sunscreens formulations

Ester Pinheiro Santos[1], Jayne Carlos de Souza Barboza; [1]Escola de Engenharia de Lorena - Universidade de São Paulo

SP1-B40 - Determination of the encapsulation percentage by liquid-liquid extraction and UV/Vis spectroscopy techniques in polymeric nanocapsules formulations

Ester Pinheiro Santos[1], Jayne Carlos de Souza Barboza; [1]Escola de Engenharia de Lorena - Universidade de São Paulo

SP1-B41 - Polyurethanes obtained from mamona, babassu and buriti oils in absence of solvent

Rafael Marinho Bandeira[1], Germana Maria Santos Paiva, Nouga Cardoso Batista, Sergio H. B. Leal, José Milton Elias de Matos[1]; [1]Universidade Federal do Piauí

SP1-B42 - Mucoadhesive properties of starch sodium glycolate/zidovudine solid dispersion

Liliane Neves Pedreiro[1], Beatriz Ferreira Cury, Maria Palmira Daflon Gremião; [1]Universidade Estadual Paulista - Araraquara

SP1-B43 - Development Of Nanoparticles Ionically Crosslinked Of Chitosan With Tripolyphosphate For Nasal Administration Of Albumin
Liliane Neves Pedreiro[1], Charlene Priscila Kiill, Maria Palmira Daflon Gremião; [1]Universidade Estadual Paulista - Araraquara

SP1-B44 - Synthesis and thermal characterization of blends pectin+latex of Hancornia speciosa plasticized by glicerol
Juranez Dantas, Carmem Milkas Corbellini Souza, Tiago Bruno Reis Araujo, Jair Marques Junior, Marcelo Freitas Lima, Aline Margarete Furuyama Lima[1]; [1]Universidade Federal de Mato Grosso/ Barra do Garças

SP1-B45 - Antimicrobial Membrane Cellulose Acetate Containing Ionic Liquid and Metal Nanoparticles
Carla Weber Scheeren[1], Jairton Dupont; [1]Universidade Federal do Rio Grande

SP1-B46 - The influence of polymer molecular weight on the drug encapsulation in lipid core nanocapsules
Catiúscia Padilha Oliveira, Cristina de Garcia Venturini[1], Silvia Guterres, Adriana Raffin Pohlmann; [1]Universidade Federal do Rio Grande do Sul

SP1-B47 - Thermoplastic starch-polyethylene blends
Gisela Kloc Lopes, Mario Marques Figueira-Junior, Diego de Holanda Saboya Souza, Cristina Tristão Andrade[1]; [1]Universidade Federal do Rio de Janeiro

SP1-B48 - Inclusion of pigments from red pepper in beta-cyclodextrin: comparison between magnetic and ultrasonic stirring
Lidiane Mendes Gomes[1], Nicolly Petito, Francine Albernaz Lobo, Deborah Quintanilha Falcão[1], Kátia Gomes de Lima Araújo; [1]Universidade Federal Fluminense

SP1-B49 - UV light irradiation on poly (lactic acid): surface modifications
Franciele Nicole Dos Santos[1], Walter Ruggeri Waldman, Antonio Jose Felix Carvalho; [1]Universidade Federal de São Carlos - Campus Sorocaba

SP1-B50 - Potential evaluation of extraction whiskers from natural fiber of theTypha domingensis
Natália Reigota César[1], Paola Mulazani, Natali Dandara de Jesus, Fabio Lima Leite, Vagner Roberto Botaro, Aparecido Junior de Menezes; [1]Universidade Federal de São Carlos - Campus Sorocaba

SP1-B51 - The effect of the molecular weight of the polymer on the imiquimod release from lipid core nanocapsules
Cristina de Garcia Venturini[1], Franciele Aline Bruinsmann[1], Renata Platcheck Raffin, Adriana Raffin Pohlmann, Silvia Guterres; [1]Universidade Federal do Rio Grande do Sul

SP1-B52 - Partial characterization of polyssacharides microbeads loaded with antibiotic
Gizele Cardoso Fontes, Hans Fernando Rocha Dohmann, Maria Helena Rocha Leão, Alexandre Malta Rossi

SP1-B53 - Suitability of vegetable oils as pharmaceutical ingredient for lipid core nanocapsules
Franciele Aline Bruinsmann[1], Cristina de Garcia Venturini[1], Adriana Raffin Pohlmann, Silvia Guterres; [1]Universidade Federal do Rio Grande do Sul

SP1-B54 - A kinetic study on thermal degradation in corn straw cellulose
Maria Inez Graf Miranda[1], Simone Leal Rosa, Noor Rehman, Vinicius Martins, Sonia M B Nachtigall, Clara I D Bica; [1]Universidade Federal do Rio Grande do Sul

SP1-B55 - Bioadhesive force of hydrogels containing C971P® and C974P® carbomer polymers
Mariane Hiromi Hirata[1], Gabriela Marielli da Luz, Hilris Rocha E Silva, Maria Palmira Daflon Gremião; [1]Universidade Estadual Paulista - Araraquara

SP1-B56 - Obtaining organoclay for use in biodegradable polymer nanocomposites
Dayanne Diniz de Souza Morais[1], Renata Barbosa, Keila Machado de Medeiros, Edcleide Maria Araújo, Tomás Jeferson Alves de Mélo; [1]Federal University Of Campina Grande

SP1-B57 - Bacterial Cellulose/Polycaprolactone "Green" Composites.
Hernane Silva Barud, Carlos L. P Carone, Rosane Ligabue, Jeane Dullius, Sandra Einloft, Sidney José Lima Ribeiro

SP1-B58 - Synthesis of polymer-metal nanocomposites
Josivandro do Nascimento Silva[1], Jamil Saade, Patrícia Maria de Albuquerque Farias; [1]Universidade Federal de Pernambuco

SP1-B59 - Controlled desorption of potassium from

polysaccharide hydrogels
Adriel Bortolin[1], Fauze Ahmad Aouada[2], Caue Ribeiro de Oliveira, Luiz Caparelli Mattoso; [1]Embrapa-Cnpdia, [2]Instituto de Quimica de Araraquara-Unesp

SP1-B60 - X-ray diffraction study on crystallinity degree of chitin treated by two different processes
Laidson Paes Gomes, Eduardo Mere Del Aguila[1], Cristina Tristão Andrade[1], Joab Trajano Silva, Vania M Flosi Paschoalin; [1]Universidade Federal do Rio de Janeiro

SP1-B61 - Edible films based on over-ripe bananas, pectin and chitosan nanoparticles
Milena Martelli Tosi[1], Marcia Regina de Moura[2], Tais Teo de Barros, Odilio Assis; [1]Embrapa-Cnpdia, [2]Instituto de Física de São Carlos

SP1-B62 - Synthesis and characterization of nanocomposite of cornstarch and titanium dioxide by low field NMR
Roberto Neto[1], Leonardo Augusto Moreira, Maria Inês Tavares; [1]Instituto de Macromoléculas Professora Eloisa Mano

SP1-B63 - In vitro characterization of encapsulation of DNA by chitosan particles
Juliana Baiense, Nara Oliveira Borges, Laidson Paes Gomes, Eduardo Mere Del Aguila[1], Cristina Tristão Andrade[1], Joab Trajano Silva, Vania M Flosi Paschoalin; [1]Universidade Federal do Rio de Janeiro

SP1-B64 - Preparation of nanostructured hydrogels based on montmorillonite, polyacrylamide and methylcellulose: hydrophilic and spectroscopic characterization
Elaine Inácio Pereira[1], Caue Ribeiro de Oliveira, Adriel Bortolin[2], Luiz Caparelli Mattoso, Fauze Ahmad Aouada[3]; [1]Universidade Federal de São Carlos, [2]Embrapa-Cnpdia, [3]Instituto de Quimica de Araraquara-Unesp

SP1-B65 - Comparative study between the compatibilization of PP homopolymer and high impact PP with natural fibers
Priscila Ferreira Oliveira, Maria de Fátima Vieira Marques[1]; [1]Macromolecules Institute - Federal University Of Rio de Janeiro

TUESDAY , SEPTEMBER 27TH
SESSION SP2
14:00 - 16:00 - Exhibition Hall

SP2-B66 - Composites of Polyolefins with Wood Powder from Furniture Industry – Mechanical Properties
Palova Santos Balzer[1], Alessandra Pereira[2], Airton Rosa, Maurus Joenk, Leandro Apolinário; [1]Pontifícia Universidade Católica de Minas Gerais, [2]Universidade Federal de Santa Catarina

SP2-B67 - Replacement Study of Dioctyl Phthalate (DOP) formulation of Stretch Film of Poly(Vinyl Chloride) by Polycaprolactone
Palova Santos Balzer[1], Cristiano Dias, Fabio Murilo Garcia, Daniela Becker, Valdir Soldi; [1]Pontifícia Universidade Católica de Minas Gerais

SP2-B68 - In vitro release and skin permeation studies of retinyl palmitate nanocapsules containing bioactives
Wandeberg Aranha Diniz, Zaine Teixeira

SP2-B69 - Thermal and mechanical characterization of starch-cellulose matrices prepared via hot melt extrusion
Karine Modolon Zepon[1], Luiz Fernando Vieira, Gean Vitor Salmoria, Luiz Alberto Kanis; [1]Universidade Federal de Santa Catarina

SP2-B70 - Relevance of the phosphorous and nitrogen in the Polyhydroxyalkanoates structure
Diana Marcela Vanegas Hernández[1], Margarita Enid Ramírez Carmona; [1]Universidad Pontificia Bolívariana

SP2-B71 - Development Of A Porous Plga Conduit For Biomedical Applications
Mariane Giacomini Schardosim, Rúbia Young Sun Zampiva, André Luís Marin Vargas, Roberto Hübler

SP2-B72 - Characterization of chemically modified biofilms of gelatin/galactomannan
Nataly Machado Siqueira, Ítalo Ribeiro Barros, Ricardo Vinicius Bof de Oliveira, Rosane Michele Duarte Soares

SP2-B73 - Tensile properties of poly(glycerol succinate-co-maleate) nanocomposites reinforced with cellulose nanowhiskers
Eliton Souto Medeiros[1], William J. Orts, Luiz Caparelli Mattoso; [1]Universidade Federal da Paraiba

SP2-B74 - A New Product From The Papaya Tree Shafts
Uine Lima Oliveira, Jorge Fernando Silva de Menezes, José Gilberto da Silva, Regilany P Colares, Rodrigo de Paula, Aluísio Marques da Fonseca, Camila Grossi Vieira

SP2-B75 - Studies of polymer micro and nanofibers obtained by Solution Blow Spinning
Eliton Souto Medeiros[1], Walter W. B. Pessoa, Gabriel Ferraz, Rolmualdo Rodrigues Menezes, Luiz Caparelli Mattoso, Thamyscira H. S. Silva; [1]Universidade Federal da Paraiba

SP2-B76 - Structural analysis of the composites produced by mixture of waste bovine leather with natural rubber
Elton Aparecido Prado Reis[1], Renivaldo José Dos Santos, Eduardo Roque Budemberg, Aldo Eloizo Job; [1]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

SP2-B77 - Natural rubber latex thin films produced by spray using Layer-by-Layer (LbL) technique
Luiz Fernando Magri Dias Galdino[1], Christiane Pinto Davi, Mariselma Ferreira; [1]Fundação Universidade Federal do Abc

SP2-B78 - Gliadin conformation analysis by FTIR
Andresa da Costa Ribeiro[1], Rosane Michele Duarte Soares, Nádya Pesce da Silveira; [1]Universidade Federal do Rio Grande do Sul

SP2-B79 - Synthesis and characterization of chitosan modified with cetremide for copper adsorption
Guilherme Leocárdio Lucena, Luzia Maria Castro Honório, Jefferson Maul[1], Iêda Maria Garcia Santos[1], Antônio Gouveia Souza, Afranio Gabriel da Silva, Vandeci Dias Santos; [1]Universidade Federal da Paraíba

SP2-B80 - Mechanical properties of mixed retrogradedstarch/pectin films.
Andréia Bagliotti Meneguin[1], Beatriz Ferreira Cury, Raul Cesar Evangelista; [1]Universidade Estadual Paulista "júlio de Mesquita Filho"

SP2-B81 - Functional characterization of activity human colostrum phagocytes immunostimulated with melatonin adsorbed on microspheres poly(ethylene glycol) by flow cytometry
Cristiane de Castro Pernet Hara[1], Danny Laura Gomes Fagundes[1], Paulo Celso Leventi Guimarães[1,2], Silvia Hannah Bilotti Ratto, Rosa Maria Jacinto Volpato, Adenilda Cristina Honório França, Eduardo Luzia França; [1]Universidade Federal de Mato Grosso/ Barra do Garças, [2]Instituto de Ciências da Saúde E Biológicas

SP2-B82 - Thermoplastic Starch/ Polyethylene blends prepared with terpolymers of poly(ethylene-co-vinyl acetate-co-vinyl alcohol)
Adriane de Medeiros Ferreira, Alessandra Luzia da Róz[1], Fábio Minoru Yamaji, Antonio José Felix de Carvalho; [1]Universidade Federal de São Carlos, Campus Sorocaba

SP2-B83 - Poly(lactic acid) films plasticized with oligoesters
Evelise Fonseca Santos[1], Raul Quijada, Ricardo Vinicius Bof de Oliveira, Sonia M B Nachtigall; [1]Universidade Federal do Rio Grande do Sul

SP2-B84 - Biocompatibility of chitosan nanostructured matrix: clinical evaluation of the implant in mice
Valcinir Aloisio Scalla Vulcani[1], Vanessa Sobue Franzo, Maria Trindade M Bizarria, Marco Akira D'ávila, Lucia Helena Innocentini Mei; [1]Universidade Federal de Goiás

SP2-B85 - Fibroblast activity in rats implanted with nanostructures chitosan matrices
Valcinir Aloisio Scalla Vulcani[1], Vanessa Sobue Franzo, Maria Trindade M Bizarria, Marco Akira D'ávila, Lucia Helena Innocentini Mei; [1]Universidade Federal de Goiás

SP2-B86 - Biocomposite Treaty in Surface: Sisal and Polyester
Jayna Dionisio Santos, Ricardo Alex Dantas Cunha, Renata Santos Felipe, Raimundo Nonato Felipe, Maria Rosimar Sousa

SP2-B87 - Evaluation of biodegradable polymers as compatibilizers for PP/PA6 blend
Bruno de Paula Amantes, Maria de Fátima Vieira Marques[1], Sirpa Vuorinen, Iryna Grafova, Markku Leskela, Andriy Grafov; [1]Macromolecules Institute - Federal University Of Rio de Janeiro

SP2-B88 - Preparation and aging of starch-based blends compatibilized by organically-modified clay
Cristina Tristão Andrade[1], Natália Ferreira Magalhães, Karim Dahmouche[1]; [1]Universidade Federal do Rio de Janeiro

SP2-B89 - Synthesis and Characterization of Nanocomposites for Biomedical Applications: Poly(vinyl alcohol)/Multi-walled carbon nanotubes
Herman Sander Mansur[1], Alexandra Apisicitelli Mansur, Joyce Cruz Santos[1]; [1]Universidade Federal de Minas Gerais

SP2-B90 - Synthesis of Phthaloyl Chitosan Labeled with Rhodamine B
Claudio Ciulik, Leni Campos Akcelrud

SP2-B91 - Controlled release of Imiquimod from lipid core nanocapsules containing vegetable oil
Franciele Aline Bruinsmann[1], Cristina de Garcia Venturini[1], Renata Platcheck Raffin, Adriana Raffin Pohlmann, Silvia Guterres; [1]Universidade Federal do Rio Grande do Sul

SP2-B92 - Effects of sterilization methods in physico-chemical properties on biodegradable nanofiber scaffolds, to be used for tissue engineering

Daikelly Iglesias Braghirolli, Mariana do Conto Fin, Daniela Steffens, Douglas Gamba, César Petzhold, Patricia Pranke[1]; [1]Federal University Of Rio Grande do Sul

SP2-B93 - Poly(lactic acid): synthesis with the conventional method and with the microwave irradiation

Thalita Ferreira Menegassi de Souza[1], Anderson Orzari Ribeiro[1]; [1]Universidade Federal do Abc

SP2-B94 - Analysis in vitro of the adhesion capacity and viability of dental pulp stem cells seeded onto biodegradable scaffolds.

Gerson Arisoly Xavier Acasigua, Lisiane Bernardi, Daikelly Iglesias Braghirolli, Patricia Pranke[1], Anna Christina Medeiros Fossati; [1]Federal University Of Rio Grande do Sul

SP2-B95 - morphology and hydrophobicity of blends of pectin with latex Hancornia speciosa

Juranez Dantas, Douglas José Correia Gomes[1], Jackeline Barbosa Brito[1], Marcelo Freitas Lima, Aline Margarete Furuyama Lima[1], Josmary Rodrigues Silva[1], Nara Cristina de Souza[1]; [1]Universidade Federal de Mato Grosso/ Barra do Garças

SP2-B96 - Characterization of collagen and fibroin microspheres for tissue engineering applications

Sergio Akinobu Yoshioka[1,2], Vanessa Camila Montanha, Nelson Ferreria Silva Junior; [1]Universidade de São Paulo, [2]Instituto de Química de São Carlos

SP2-B97 - Design of medical implants manufactured by injection molding of biodegradable polymers: importance, modeling and measuring of residual stresses

Luiz Fernando Vieira, Gean Vitor Salmoria, Eduardo Alberto Fancello

SP2-B98 - Behavior studies of mefenamic acid with pectin

Renato Bosco Moreira Oliveira[1], Aline Margarete Furuyama Lima[1], Rodrigo Pereira, Ailton José Terezo, Bruna Vieira Guimarães, Francisco Xavier de Campos, Adriano Buzutti Siqueira; [1]Universidade Federal de Mato Grosso/ Barra do Garças

SP2-B99 - Preparation and physico-chemical characterization of polymeric nanoparticles containing baicalein.

Gislane de Jesus Oliveira[1], Ana Paula Pereira Santos[1], Zaine Teixeira; [1]Universidade Federal de Sergipe

SP2-B100 - Polyhydroxybutyrate-co-hydroxyvalerate (PHBV) nanospheres prepared by spontaneous solvent-evaporation method using tetrahydrofuran

Ana Paula Pereira Santos[1], Gislane de Jesus Oliveira[1], Zaine Teixeira; [1]Universidade Federal de Sergipe

SP2-B101 - Conductive polyaniline/pectin composite: preparation and characterization

Marcelo F. Lima[1], Adriana Paula Cardoso[1], Wilhan Donizete Gonçalves Nunes, Jomar Dias da Silva, Aline Margarete Furuyama Lima[2], George Barbosa da Silva; [1]Universidade Federal de Mato Grosso, [2]Universidade Federal de Mato Grosso/ Barra do Garças

SP2-B102 - Superabsorbent hydrogels based on chitosan and vermiculite clay

Kamilla Barreto Costa[1], Flávia de Miranda Leão Leite Costa, Ana Paula Dantas de Lima, Bruno de Castro Amoni, Nágila Maria Pontes Silva Ricardo; [1]Universidade Federal do Ceará

SP2-B103 - Evaluation of mechanical properties of epoxy resin/ random mat vegetal fibers composites after conditioning

Andressa Bella Darros[1], Jane Maria Faulstich Paiva; [1]Universidade Federal de São Carlos - Campus Sorocaba

SP2-B104 - Cellulose Nanocrystal as Reinforcement For Biodegadable Films

Francieli Borges de Oliveira[1], Leandro Renato Cardili, Luiz Caparelli Mattoso; [1]Embrapa Instrumentação

SP2-B105 - Polyurethane biopolymer made of frying oil

Luiz Gustavo Ferraro, Maria Virginia Gelfuso, Daniel Thomazini

SP2-B106 - Effect of Reprocessing of PPMA through reactive extrusion on production of polypropylene- sawdust composites

Ernani Trombetta, Thais Sydenstricker Flores-Sahagun, Kestur G. Satyarayana

SP2-B107 - Poly(ethilene glycol) (PEG) Microspheres Adsorbed with Cortisol Hormone Present Anti-inflammatory Effect in Colostrum Phagocytes

Danny Laura Gomes Fagundes[1], Cristiane de Castro Pernet Hara[1], Silvia Hannah Bilotti Ratto, Gabriel Triches Nunes, Eduardo Luzia França, Adenilda Cristina Honório França; [1]Universidade Federal de Mato Grosso/ Barra do Garças

SP2-B108 - Human colostrum phagocytes immunostimulated with Poly(ethilene glycol) microspheres adsorbed with cortisol hormone offer protection of intestinal mucosa.

Danny Laura Gomes Fagundes[1], Cristiane de Castro Pernet Hara[1], Paulo Celso Leventi Guimarães[1,2], João Vítor Silva Ormonde, Eduardo Luzia França,

Adenilda Cristina Honório França; [1]Universidade Federal de Mato Grosso/ Barra do Garças, [2]Instituto de Ciências da Saúde E Biológicas

SP2-B109 - Evaluation of the degradability of poly(lactic acid) under different oil industry conditions

Jaciene Jesus Freitas Cardoso[1], Yure Gomes de Carvalho Queirós, Elizabete Fernandes Lucas; [1]Macromolecules Institute - Federal University Of Rio de Janeiro

SP2-B110 - Poly (Ethylene Glycol) Adsorbed With Glycine Reflect On Microbicidal Activity By Colostrum Phagocytes

Paulo Celso Leventi Guimarães[1,2], Cristiane de Castro Pernet Hara[2], Danny Laura Gomes Fagundes[2], Silvia Hannah Bilotti Ratto, Adenilda Cristina Honório França, Eduardo Luzia França; [1]Universidade Federal de Mato Grosso/ Barra do Garças, [2]Instituto de Ciências da Saúde E Biológicas

SP2-B111 - A new process for the preparation of nanocomposites of cellulose fiber/microfibrils and thermoplastic starch

José Eduardo Penteado Zago[1], Antonio Jose Felix Carvalho; [1]Universidade de São Paulo - Eesc/ifsc/iqsc

SP2-B112 - Thermal, structural and morphological investigation of the castor oil polyurethanedoped with 60%SiO_2–36%CaO–4% P_2O_5: xAg_2O_e bioactive glass

Pollianna Daniella Candelorio, José Renato Jurkevicz Delben[1], Seila Silva Rojas, Angela Sanches Tardivo Delben, Antonio Carlos Hernandes[2,3]; [1]Universidade Federal de Mato Grosso do Sul, [2]Universidade de São Paulo, [3]Instituto de Física de São Carlos

SP2-B113 - Interactions and Miscibility in Polymer Blends Obtained by Solution Blow Spinning

Eduardo Aparecido Moraes[1], Juliano Elvis Oliveira, Eliton Souto Medeiros, Luiz Caparelli Mattoso; [1]Universidade Federal de São Carlos - Campus: São Carlos

SP2-B114 - Synthesis of Microspheres Composites Composed by Crystalline Poly(vinyl alcohol) and Magnetite for Biomedical Applications

Vinícius Ladeia Semenzim[1], Aryane Tofanello Tofanello, Glaucia Grazielli Basso, Juliana Bergamasco, Maria Irene Bartolomeu Raposo, Domingo Marcolino Braile, José Geraldo Nery; [1]Universidade Estadual Paulista Campus São José do Rio Preto

SP2-B115 - High density polyethylene composites reinforced by natural wood fiber for use in household wire accessories

Sônia Maria Assunção Veroneze[1]; [1]Universidade Federal do Paraná

SP2-B116 - Reactive Extrusion of Thermoplastic Starch: Preparation of Mixed Esters from Anhydride Acetic and C-18 Acids

Lucíola Lucena de Sousa[1], Antonio Jose Felix Carvalho; [1]Universidade de São Paulo

SP2-B117 - Thermoplastics Blends of Starch Modified and Poly (lactic acid) by Reactive Extrusion

Tamires de Souza Nossa[1], Antonio Jose Felix Carvalho; [1]Universidade de São Paulo - Materias - Eesc

SP2-B118 - An electrospun nanofiber carrier for bacterial inoculant.

Rafael Vargas, Eliane Villamil Bangel, Cláudio Nunes Pereira[1]; [1]Tecnano Pesquisas E Serviços Ltda.

SP2-B119 - Comparative of mechanical properties of polyester matrix composites reinforced with hybrid system of curauá fiber and waste.

Thiago Augusto de Sousa Moreira, Jean Silva Rodrigues, Alan Amaral Brandão

SP2-B120 - Histologic evaluation of highly crystalline poly(vinyl alcohol) microspheres for chemoembolization therapy

Danilo Antonio Silva, Vinícius Ladeia Semenzim[1], Glaucia Grazielli Basso, Maria Cecília Rui Luvizotto, Alexandre Lima de Andrade, Domingo Marcolino Braile, José Geraldo Nery; [1]Universidade Estadual Paulista Campus São José do Rio Preto

SP2-B121 - Development and characterization of multi-wall nanoparticles funcionalized with different molecules

Márcia Duarte Adorne, Eduardo André Bender, Letícia Marques Colomé, Marcela Cavalcante, Dulsinéia Abdalla, Silvia Guterres, Adriana Raffin Pohlmann

SP2-B122 - Microhardness of dental composite resin containing zirconia nanostructured

Viviane Figueiredo de Souza[1], Angela Sanches Tardivo Delben, José Renato Jurkevicz Delben[1], Danilo Zanello Guerisoli; [1]Universidade Federal de Mato Grosso do Sul

SP2-B123 - Effect of nanoclay type on the morphology and thermal stability of biopolymer-clay nanocomposite based on chitosan

Kirlyane Christinne Vital Santos, Nadie Katyllie Silva Diniz, Carla Ramalho Costa Braga, Marcus Vinícius Lia Fook, Suédina Maria Lima Silva

SP2-B124 - Hydrogels Derivated of Cellulose Acetate: Synthesis and Thermogravimetric Analyzer.
Patrícia Allue Dantas[1], Vagner Roberto Botaro, Leonardo Fernandes Fraceto; [1]Universidade Federal de São Carlos - Campus Sorocaba

SP2-B125 - Shear bond strength to dentin of the dental restorativepolymeric system of low shrinkage
Vitor César Dumont[1], Rafael Menezes Silva[1], Cíntia Tereza Pimenta de Araújo, Karine Taís Aguiar Tavano, Adriana Maria Botelho, Maria Helena Santos; [1]Universidade Federal Dos Vales do Jequitinhonha E Mucuri

SP2-B126 - Biodegradable Films based on PLA/PLGA blends and Organoclay
Fernanda Abbate Dos Santos, Maria Inês Tavares, Paulo Henrique Machado Cardoso, Luisa de Almeida Ribeiro

SP2-B127 - Cassava Starch based films Crystallinity
Helia Bibiana León Molina[1], Jairo Ernesto Perilla; [1]Escuela Colombiana de Carreras Industriales

SP2-B128 - Fibers of alginate, chitosan and hybrid alginate/quitosan for medical applications.
Silgia Aparecida da Costa, Sirlene Maria da Costa, Giovanna Rodrigues Melin, Paula Rindeika Acs de Oliveira, Jordana Rodrigues de Castro, Júlia Baruque Ramos, Silgia Aparecida da Costa

SP2-B129 - Characterization of natural fibers applied in clean up of oily waters
Roberta Paye Bara[1], Thais Sydenstricker Flores-Sahagun, Teoli Rodrigues Annunciado; [1]Universidade Federal do Paraná

SP2-B130 - Polypropylene/clay nanocomposites with biodegradable polymers as compatibilizers
Maria de Fátima Vieira Marques[1], Rafael Silva Araújo[2], Andriy Grafov, Vinícius Oliveira Aguiar, Iryna Grafova; [1]Macromolecules Institute - Federal University Of Rio de Janeiro, [2]Universidade Federal do Rio de Janeiro

SYMPOSIUM C

Electronic Materials

Chairs

Cristiano Krug (Instituto de Física – UFRGS)
Cylon Gonçalves da Silva (CEITEC S.A.)
Antônio L. P. Rotondaro (Centro de Tecnologia)
Renato Archer and Celso Pinto de Melo (Departamento de Física – UFPE)

ORAL PRESENTATIONS

* Invited Lecture

MONDAY , SEPTEMBER 26TH

SESSION C1
09:30 - 10:30 - Room 16

09:30 - C1.1*
Novel high-k materials and epitaxial silicides for high mobility strained Si(Ge) MOSFETs
Dan Mihai Buca, Wenjie Yu, Bo Zhang, Bernhard Holländer, Jürgen Schubert, Qing-Tai Zhao, Siegfried Mantl

10:00 - C1.2
Thermal stability of HfO_2 and GeO_2 gate stacks deposited on Ge(001) and Si(001)
Gabriel Vieira Soares, Cristiano Krug, Israel Jacobi Baumvol, Leonardo Miotti, Karen Paz Bastos, Gerry Lucovsky, Claudio Radtke

10:15 - C1.3
Physico-chemical properties of Al_2O_3/Ge structures

Nicolau Molina Bom[1], Mateus Dalponte, Cristiano Krug, Gabriel Vieira Soares, Claudio Radtke; [1]Universidade Federal do Rio Grande do Sul

SESSION C2
11:00 - 12:30 - Room 16

11:00 - C2.1*
Novel Materials and Devices for Flexible Electronics
Manuel A Quevedo-Lopez

11:30 - C2.2
Nanoimprint of AZ1518 photoresist and microcontact printing of PEDOT electrodes for low cost electronics
Marco Roberto Cavallari, Vinicius Ramos Zanchin,

Leandro Augusto Silveira Artese, Marcelo de Assunção Pereira da Silva[1], Roberto Mendonça Faria[1], Fernando Josepetti Fonseca[2], Adnei Melges Andrade; [1]Instituto de Física de São Carlos, [2]Escola Politécnica da Universidade de São Paulo

11:45 - C2.3

Energy storage elements based on hybrid organic/inorganic nanomembranes

Carlos Cesar Bof Bufon[1], Jose David Cojal Gonzales, Dominic J. Thurmer, Martin Bauer, Daniel Grimm, Oliver G. Schmidt; [1]Ifw Dresden

12:00 - C2.4

Structure of and strain in rolled-up nano-membranes

Christoph Deneke[1], Angelo Malachias, Suwit Kiravittaya, Oliver G. Schmidt; [1]Laboratório Nacional de Luz Sincrotron

12:15 - C2.5

3-dimensional hybrid organic/inorganic heterojunctions based on rolled-up nanomembranes

Carlos Cesar Bof Bufon[1], Juan Arias, Dominic J. Thurmer, Christoph Deneke[2], Oliver G. Schmidt; [1]Ifw Dresden, [2]Laboratório Nacional de Luz Sincrotron

TUESDAY , SEPTEMBER 27TH

SESSION C4
09:30 - 10:30 - Room 16

09:30 - C4.1*

Passivation of silicon surface for high efficiency solar cells

Joel Pereira de Souza, Harold J. Hovel, Eric Marshall

10:00 - C4.2

Optical microscopy and micro-manipulation methods to build Carbon Nanotube electrical nano-devices

Benjamin Fragneaud, Victor Carozo, Braulio Soares Archanjo[1], Carlos Alberto Achete[2]; [1]Inmetro, [2]Instituto Nacional de Metrologia, Normalização E Qualidade Industrial

10:15 - C4.3

Mid-IR laser oscillation in Cr^{2+}:ZnSe planar waveguide structures fabricated by pulsed laser deposition

Renato P. Camata, Jonathan E. Williams, Dmitry V. Martyshkin, Igor S. Moskalev, Sergey B. Mirov, Vladimir V. Fedorov

SESSION C5
11:00 - 12:30 - Room 16

11:00 - C5.1*

Integrating hybrid Memristor-CMOS circuits

Gilberto Medeiros-Ribeiro

11:30 - C5.2

An Amorphous Conterpart of c-SiC deposited by PECVD

Rogério Junqueira Prado[1], Jones Willian Soares de Queiróz, Evandro França, Marcelo Nelson Paez Carreño, Marcia Carvalho de Abreu Fantini[2], Inès Pereyra; [1]Universidade Federal de Mato Grosso, [2]Instituto de Física da Universidade de São Paulo

11:45 - C5.3

Investigating the decay of photoinduced conductivity of SnO_2 thin films

Luis Vicente de Andrade Scalvi[1], Emeson Aparecido Floriano, Leandro Piaggi Ravaro, Evandro Augusto de Morais; [1]Universidade Estadual Paulista "júlio de Mesquita Filho"

12:00 - C5.4

Density functional theory study on the electronic properties of defects in SnO2 grain

Daniel Lohmann[1], Carlo Requião Cunha; [1]Universidade Federal de Santa Catarina

12:15 - C5.5

Evaluation of Semiconductor Thin Films of Doped Tin Oxide as Ion Detector

Raphael Aparecido Sanches Nascimento[1], Marcelo Mulato; [1]Universidade de São Paulo

POSTER PRESENTATIONS

MONDAY , SEPTEMBER 26TH

SESSION SP1
16:00 - 18:00 - Exhibition Hall

SP1-C1 - Investigation of electrical and optical properties of semiconductor compound $BiVO_4$

Marcelo Rodrigues Silva[1], Leandro Piaggi Ravaro, Aluisio Andrade, Luiz Henrique Dall'antonia, Luis Vicente de Andrade Scalvi[2], Lígia Oliveira Ruggiero[3]; [1]Universidade Estadual Paulista, [2]Universidade Estadual Paulista "júlio de Mesquita Filho", [3]Universidade Estadual Paulista "júlio de Mesquita Filho"

SP1-C2 - Effects of oxidation temperature on thermal oxide layer and interface of n- and p-type SiO_2/4H-SiC structures

Rodrigo Palmieri[1], Cláudio Radtke, Henri Ivanov

Boudinov, Eronides Felisberto da Silva Jr.; [1]Universidade Federal do Rio Grande do Sul

SP1-C3 - Evidence of EDMR signal dependence with spin-lattice relaxation processes in doped Alq3 based OLEDs

Augusto Batagin Neto[1], Jorge A. Gómez, Fernando A. Castro, Frank Nüesch, Libero Zuppiroli, Carlos F. O. Graeff; [1]Universidade Estadual Paulista Júlio de Mesquita Filho

SP1-C4 - Electrically Detected Magnetic Resonance spectroscopy as a powerful tool to study Spin Dependent Transport phenomena.

Oswaldo Nunes Neto[1], Carlos F. O. Graeff; [1]Universidade Estadual Paulista Júlio de Mesquita Filho - Posmat

SP1-C5 - Molecular modeling of a conjugated polymer/fullerene photovoltaic complex

Cleber Fabiano Marchiori, Marlus Koehler

SP1-C6 - Trends on electronic and chemical properties of rare-earth lanthanoids in gallium nitride and zinc oxide.

Glaura Caroena Azevedo de Oliveira, Wanda Valle Marcondes Machado, Joao Francisco Justo Filho, Lucy V. Credidio Assali[1]; [1]Instituto de Física da Universidade de São Paulo

SP1-C7 - Theorical study of the oxygen interaction with BC_2N nanotubes

Caroline Jaskulski Rupp[1], Rogério José Baierle; [1]Universidade Federal de Santa Maria

SP1-C8 - InterfaceFormation of Nanostructured Heterojunction SnO_2:Eu/GaAs and PhotoInduced Electronic Transport

Luis Vicente de Andrade Scalvi[1], Cristina F. Bueno[2], Tatiane F. Pineiz; [1]Universidade Estadual Paulista "júlio de Mesquita Filho", [2]Faculdade de Ciências de Bauru - Unesp

SP1-C9 - Growth and characterization of TiO_2 thin films prepared by DC reactive magnetron sputter at room temperature

Jair Fernandes de Souza, Milena A. Moreira, Ioshiaki Doi, José Alexandre Diniz, Peter Jürgen Tatsch

SP1-C10 - Physcial and Chemical characterization of PANI/ZrO_2 composite

Rafael Marinho Bandeira[1], Ángel Alberto Hidalgo, José Milton Elias de Matos[1], Helder Nunes da Cunha[1]; [1]Universidade Federal do Piauí

SP1-C11 - Polyaniline and poly(acrylonitrile-butadiene-styrene) blends for ESD applications

Fernando Henrique Cristovan[1], Ernesto Chaves Pereira; [1]Universidade Federal de São Paulo

SP1-C12 - Development of sensor chamber to detect ethanol vapor in SnO2 thin films

Tania Regina Giraldi[1], Kleper de Oliveira Rocha[2], Christhiano Peres, Sonia Maria Zanetti[2], Adenilson José Chiquito, Caue Ribeiro de Oliveira; [1]Universidade Federal de Alfenas, [2]Sencer Sensores Cerâmicos

SP1-C13 - Electromagnetic performance of a composite material coated with microwave absorbent paint

Luiza de Castro Folgueras[1], Mauro Angelo Alves[2], Mirabel Cerqueira Rezende; [1]Departamento de Ciência E Tecnologia Aeroespacial/instituto de Aeronáutica E Espaço/divisão de Materiais, [2]Instituto de Aeronautica E Espaco

SP1-C14 - Periodic diameter modulation and defect formation in InP Nanowire growth: catalyst instability

Douglas Soares Oliveira[1], Thalita Chiaramonte, Luiz Henrique Galvão Tizei, Daniel Mario Ugarte, Monica Alonso Cotta; [1]Universidade Estadual de Campinas

SP1-C15 - Light induced Electron Spin Resonance studies in FIrpic-TCNB

Andrei Paulo de Assis[1], Augusto Batagin Neto[2], Liang Yan, Ming Shao, Bin Hu, Carlos F. O. Graeff; [1]Universidade Estadual Paulista Júlio de Mesquita Filho - Posmat, [2]Universidade Estadual Paulista Júlio de Mesquita Filho

SP1-C16 - Investigation of Interface Formation of SnO_2:Ce^{3+}/GaAs thin films heterojunction

Luis Vicente de Andrade Scalvi[1], Diego H.o. Machado[2], Tatiane F. Pineiz, Lígia Oliveira Ruggiero[3]; [1]Universidade Estadual Paulista "júlio de Mesquita Filho", [2]Faculdade de Ciências de Bauru - Unesp, [3]Universidade Estadual Paulista "júlio de Mesquita Filho"

SP1-C17 - The influence of substrate conditions on Raman measurements of policrystalline GaN prepared by Reactive Magnetron Sputtering

Guilherme Ferreira[1], Ziani de Souza Schiaber, Douglas Marcel Gonçalves Leite, José Humberto Dias da Silva, José Brás Barreto de Oliveira[2], Américo Sheitiro Tabata; [1]Universidade Estadual Paulista "júlio de Mesquita Filho" - Campus de Bauru, [2]Faculdade de Ciências de Bauru - Unesp

SP1-C18 - Preparation and characterization of electrically conductive polymer composites based on Polypropylene.

Nilda Martins[1], Guilherme Mariz de Oliveira Barra; [1]Universidade Federal de Santa Catarina

SP1-C19 - Probing Monoatomic Layers In Nanostructured Devices With Compact X-Ray Sources
Gaspar Darin[1], Sergio Luiz Morelhao; [1]Instituto de Física

SP1-C20 - Site-Selective Luminescence Spectroscopy of Eu^{3+} in a Structure Type Inverse Spinel
Andreza Cristina Souza Silva[1], Josiane Aparecida Sobrinho[2], Marcos Augusto de Lima Nobre, Marco Aurélio Cebim, Marian Rosaly Davolos, Ana Maria Pires[3]; [1]Instituto de Química - Universidade Estadual Paulista, [2]Universidade Estadual Paulista "júlio de Mesquita Filho", [3]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

SP1-C21 - Deposition of aluminum-doped zinc oxide film by electron beam evaporation for solar cell applications
Vivienne Falcao, Diego Oliveira Miranda, Thiago Daniel Oliveira Moura, Milena Emerenciano Luz Sabino, Antonia Sonia Alves Cardoso Diniz, Jose Roberto Branco

SP1-C22 - Transparente Conductive Oxides of SnO_2:F
Marcos de Castro Carvalho[1], Jéssica Zaroubin, Willian Alayo, Elisa Baggio Saitovitch; [1]Brazilian Center For Physical Research

SP1-C23 - Influence of deposition rate on the optical properties of $Si_{1-x}Ge_x$ thin films obtained by LPCVD
Melissa Mederos Vidal[1], Segundo Nilo Mestanza Munoz[1], Ioshiaki Doi, José Alexandre Diniz; [1]Universidade Federal do Abc

SP1-C24 - Investigations of microcantilever surface functionalization as potential applications to nanobiosensors
Alexandra Manzoli[1], Clarice Steffens[1], Juliano Elvis Oliveira, Paulo Sergio de Paula Herrmann[1]; [1]Embrapa Instrumentação

SP1-C25 - Electrical characterization of bulk hetero-junction P3HT/N2200 active layer
Alan Victor Andrade[1], Paulo Henrique Moura, Cristhyano Bruzzi, Artemis Marti Ceschin; [1]Universidade de Brasília

SP1-C26 - Backbone induced semiconducting behavior in DNA wires
Carlos Jose Paez, Peter Alexander Schulz

SP1-C27 - Thick film laser sintering: An evidence for two-step process
Eduardo Antonelli, Marcello Barsi Andreeta[1], Antonio Carlos Hernandes[2]; [1]Instituto de Física de São Carlos, [2]Universidade de São Paulo

SP1-C28 - Space charge limited current in bipolar polymer/C_{60} devices with a spatial distribution of traps
Deize Corradi Grodniski[1], Natasha A. D. Yamamoto, Lucimara Stolz Roman, Marcos Gomes Eleutério da Luz, Marlus Koehler; [1]Universidade Federal do Paraná

SP1-C29 - Absolute photoluminescence quantum yield of P3HT measured by Photothermal Spectroscopy
Renato Antonio Cruz[1], Tomaz Catunda, Osvaldo Novais Oliveira Jr, Roberto Mendonça Faria[2]; [1]Universidade de São Paulo - Instituto de Física de São Carlos, [2]Instituto de Física de São Carlos

SP1-C30 - Spectroscopic Ellipsometry Study of Manganese Doped Cadmium Telluride Thin Films
Thiago Henrique Rodrigues da Cunha[1]; [1]Universidade Federal de Minas Gerais

SP1-C31 - Preparation and electrical properties of non-Pb piezoelectric ceramic system $Ba(Ti_{0.75}Zr_{0.15})O_3$-$(Ba_{0.77}Ca_{0.23})TiO_3$
Eduardo Antonelli, Ludmilla Barros Nobre, Antonio Carlos Hernandes[1,2]; [1]Universidade de São Paulo, [2]Instituto de Física de São Carlos

SP1-C32 - Analysis of Anomalous Evolution of the Specific Surface Area of Niobate Nanopowder: an Electric Resistance Measurement Approach
Felipe Silva Bellucci, Leandra Oliveira Salmazo, Douglas Gouvea, Marcos Augusto de Lima Nobre

SP1-C33 - Determination of Charge-carrier Mobility in Organic Metal-Insulator-Semiconductor Capacitors comprising Conjugated Polymers and Ionic Conducting Polymers Blends.
Clayton José Pereira[1], Lucas Fugikawa Santos, Giovani Gozzi, Roberto Mendonça Faria[2]; [1]Instituto de Biociências, Letras E Ciências Exatas., [2]Instituto de Física de São Carlos

SP1-C34 - Synthesis and Characterization of CdSe-CdS core-shell Colloidal Nanostructures
Herman Sander Mansur[1], Alexandra Apisicitelli Mansur, Fábio Pereira Ramanery; [1]Universidade Federal de Minas Gerais

SP1-C35 - SnO_2 based ceramics with high density and low electrical resistivity
Natalia Jacomaci[1], Gisane Gasparotto[2,3], Maria Aparecida Zaghete[4], Miguel Ruiz, Ederson Carlos de Aguiar, José Arana Varela[5], Leinig Antonio Perazolli; [1]Instiruto de Quimica Unesp, [2]Universidade Estadual Paulista - Araraquara, [3]Instituto de

Química, [4]Instituto de Quimica de Araraquara-Unesp, [5]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP1-C36 - Synthesis and characterization of strontium titanate nano powders obtained by sol-precipitation and hydrothermal method
Tina Setinc[1], Matjaz Spreitzer, Danilo Suvorov; [1]Jozef Stefan Institute

SP1-C37 - Growth and Characterization of Silicon Oxide Nanowires via a Solid-Liquid-Solid Route
José Joaquim Melo[1], Rene Chagas da Silva, José Pedro Mansueto Serbena[2], Jose Javier Saez Acuña, Andre Avelino Pasa; [1]Instituto Federal do Maranhão, [2]Universidade Tecnológica Federal do Paraná

SP1-C38 - Electronic properties of polypyrrole-bacterial cellulose conducting membranes
Jonathan Faraco França[1], Daliana Muller[1], Guilherme Mariz de Oliveira Barra, Carlos Renato Rambo[1]; [1]Universidade Federal de Santa Catarina

SP1-C39 - Field Effect Sensors for Biochemical Applications
Jessica Colnaghi Fernandes[1], Joana Paula Mota Pinto, Marcelo Mulato; [1]Ffclrp - Universidade de São Paulo

SP1-C40 - Synthesis and electrical properties of PEDOT-Bacterial Cellulose conducting membranes
Daliana Muller[1], Carlos Renato Rambo[1], Luismar Marques Porto, Guilherme Mariz de Oliveira Barra; [1]Universidade Federal de Santa Catarina

SP1-C41 - Development of a organic pressure sensor based on KDP/PEDOT:PSS mixture
Hesddras Franco Gomes[1], Artemis Marti Ceschin; [1]Universidade de Brasília

SP1-C42 - Pressure flexible device based in XNBR/PANi blend
Taís Moreira[1], Roberto Onmori; [1]Polytechnic School At Universidade de São Paulo (Usp)

SP1-C43 - Sintering and microstructure studies of ZrO_2-$8Y_2O_3$/Co_3O_4 ceramics
João Paulo Freitas Grilo, Paulo Pereira Neto, Graziele Lopes Souza, Daniel Araujo de Macedo, Igor Jefferson Araújo[1], Carlos Alberto Paskocimas, Rubens Maribondo do Nascimento; [1]Universidade Federal do Rio Grande do Norte

SP1-C44 - Optimization and Characterization of the Etching Process for FinFET Transistors by Reactive Ion Etching Technique
Mariana Pojar[1], Antonio Carlos Seabra, João Antonio Martino; [1]Polytechnic School At Universidade de São Paulo (Usp)

SP1-C45 - Optical studies of InAs self-assembled quantum dots confined in InGaAs quantum wells
Katielly Tavares Santos[1], Matheus Correa Oliveira[1], Américo Sheitiro Tabata, Mark Hopkinson, José Brás Barreto de Oliveira[1]; [1]Faculdade de Ciências de Bauru - Unesp

SP1-C46 - Study of carrier dynamics in self-assembled quantum dots embedded in quantum well systems
Matheus Correa Oliveira[1], Katielly Tavares Santos[1], Américo Sheitiro Tabata, Mark Hopkinson, José Brás Barreto de Oliveira[1]; [1]Faculdade de Ciências de Bauru - Unesp

SP1-C47 - Organic Photovoltaic Devices: ZnO instead PDOT/PSS
Elvo Calixto Burini Junior, Gerson Santos, Vinicius Ramos Zanchin, Telma Nagano de Moura, Emerson Roberto Santos, Fernando Josepetti Fonseca[1], Adnei Melges Andrade; [1]Escola Politécnica da Universidade de São Paulo

SP1-C48 - Organic semiconductor CuPc thin film deposited on glass substrate in open system
Victor Ciro Solano Reynoso[1], Oswaldo Morales Morales[2], Hermes Adolfo Aquino, Claúdio Luiz Carvalho, Ednilton Morais Cavalcante; [1]Faculdade de Engenharia - Campus de Ilha Solteira, [2]Universidade Estadual Paulista "júlio de Mesquita Filho" - Campus Ilha Solteira

SP1-C49 - Electrical behavior and microstructural analysis of varistors prepared with nanostructured ZnO powder
Felipe Antonio Lucca Sánchez[1], Diego Pereira Tarragó[1], Vânia Caldas de Sousa[1], José Ramon Jurado Egea, Carlos Pérez Bergmann; [1]Universidade Federal do Rio Grande do Sul

SP1-C50 - Stability and electronic properties of Cd and Zn doped InAs nanowires
Cláudia Lange Dos Santos[1,2], Paulo Cesar Piquini, Tomé Mauro Schmidt; [1]Universidade Federal de Santa Maria, [2]Centro Universitário Franciscano

SP1-C51 - Synthesis and characterization of electronics ceramics $LaMO_4$ (M = Nb and Ta)
Kisla Prislen Siqueira[1], Anderson Dias; [1]Universidade Federal de Ouro Preto

SYMPOSIUM D

Surface Engineering: fabrication, characterization, properties and applications of protective coatings and modified surfaces

Chairs

Fernando Lázaro Freire Junior (PUC-Rio)
Carlos Alejandro Figueroa (Universidade de Caxias do Sul)

ORAL PRESENTATIONS

* Invited Lecture

MONDAY , SEPTEMBER 26TH

SESSION D1
09:30 - 10:30 - Room 03

09:30 - D1.1*
Recent advances on MEIS (Medium-Energy Ion Scattering) for near surface analysis
Pedro Luis Grande[1]; [1]Universidade Federal do Rio Grande do Sul

10:00 - D1.2
Estimative of impregnation deepness of SnO_2 films on glass surface
Thiago Sequinel[1], Evaldo Toniolo Kubaski, Samara Schmidt[2], Graciela Aparecida Dos Santos Silva, Renata Martins Silva, Sergio Mazurek Tebcherani, José Arana Varela[3]; [1]Instiruto de Quimica Unesp, [2]Universidade Estadual de Ponta Grossa, [3]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

10:15 - D1.3
Surface Functionalization of PDMS for Microfluidics Application
Leandro de Bispo Carneiro[1], Jacqueline Ferreira, Emerson Marcelo Girotto; [1]Instituto de Quimica Unesp

SESSION D2
11:00 - 12:30 - Room 03

11:00 - D2.1
Study of semispherical cathodic cage in active screen plasma nitriding
Luiz Francisco Rodrigues Venturini[1], Inácio da Fontoura Limberger, Cristiane de Souza Javorsky, Flávia Belló Artuso[1]; [1]Universidade Federal de Santa Maria

11:15 - D2.2
The Study Of The Effect Of Plasma Nitriding And Carbonitriding On The Creep Resistance Of Ti-6al-4v Alloy.
Cátia Gisele Pinto, Miguel Justino Ribeiro Barboza, Verônica Oliveira, Mariane Silva, Paulo Atsushi Suzuki, João Paulo Machado, Francisco Piorino Neto

11:30 - D2.3
Influence of previous heat treatment on the AISI 420 steel low temperature nitriding kinetics
Thiago Fernandes Amaral, Fernando Irto Zanetti, Cristiano José Scheuer, Silvio Francisco Brunatto, Rodrigo Perito Cardoso[1]; [1]Universidade Federal do Paraná

11:45 - D2.4
Hydrogen Embrittlement in Nitrided SAF2101 Duplex Stainless Steel
Angela Maria Cordeiro de Oliveira[1], Carlos Mauricio Lepienski, Carlos Eugenio Foerster[2], Neide Kazue Kuromoto; [1]Universidade Federal do Paraná, [2]Universidade Estadual de Ponta Grossa

12:00 - D2.5
Corrosion behavoir of plasma nitrided and post-oxidised ferrous alloys
Carlos Alejandro Figueroa, Ângela Elisa Crespi[1], Fernando G. Echeverrigaray, Eliena J. Birriel, Cláudia E. B. Marino, Santiago C. Gallo, Israel Jacobi Baumvol; [1]Universidade de Caxias do Sul

12:15 - D2.6
Characterization and assessment of mechanical properties and wear of Hadfield steel and nodular cast iron.
Fabrício Xavier Faustino[1], Jose Rubens Gonçalves Carneiro, Natália Cristina Barbosa de Matos, Jose Roberto Branco; [1]Fundação Centro Tecnologico de Minas Gerais

SESSION D3
15:00 - 16:00 - Room 03

15:00 - D3.1
Characterization of TiZrV metallic films to be used in ultra-high-vacuum
Marcelo Juni Ferreira[1], Rafael Molena Seraphim, Antonio J. Ramirez[2], Manfredo Harri Tabacniks, Pedro Augusto de Paula Nascente[3]; [1]Brookhaven National Laboratory, [2]Brazilian Nanotechnology National Laboratory, [3]Universidade Federal de São Carlos

15:15 - D3.2
Nanostructures characterization using the MEIS technique
Maurício Sortica, Pedro Luis Grande[1], Cláudio Radtke; [1]Universidade Federal do Rio Grande do Sul
15:30 - D3.3
Thermal redistribution and solid state reactions in Pb and Se sequentially implanted $SiO_2/Si/SiO_2$ heterostructures
Zacarias Eduardo Fabrim[1], F. Kremer, F. P. Luce, Dario Ferreira Sanchez, Paulo F. P. Fichtner[1]; [1]Universidade Federal do Rio Grande do Sul
15:45 - D3.4
Deposition and Characterization of HfO_X Thin films Deposited by PVD
André Luís Marin Vargas, Fabiana Ribeiro de Araújo, Roberto Hübler

TUESDAY , SEPTEMBER 27TH

SESSION D4
09:30 - 10:30 - Room 03

09:30 - D4.1*
Surface nanoscience with atmospheric pressure plasmas
Thierry Belmonte[1], Thomas Gries, Gérard Henrion[1]; [1]Institut Jean Lamour, Ecole Des Mines de Nancy, Cnrs, Umr7198
10:00 - D4.2
Properties of ceramic coatings produced by Plasma Electrolytic Oxidation of aluminum alloy
Nilson Cristino Cruz, César A Antonio, Rita C. C. Rangel, Elidiane Cipriano Rangel
10:15 - D4.3
Carbon fiber surface modification by dielectric barrier discharge (DBD) at near atmospheric pressure using different gases
Jossano Saldanha Marcuzzo[1], Liana Alvares Rodrigues, Choyu Otani, Heitor Aguiar Polidoro, Satika Otani; [1]Instituto Tecnológico de Aeronáutica

SESSION D5
11:00 - 12:30 - Room 03

11:00 - D5.1
Large-Area Nanocrystalline Diamond Film deposition on silicon substrate
Kenya Aparecida Alves[1], João Roberto Moro, Evaldo José Corat, Raonei Alves Campos, Vladimir José Trava-Airoldi; [1]Instituto Nacional de Pesquisas Espaciais
11:15 - D5.2
Tribology of rubber composites coated with Diamond-Like Carbon films.
Juan Lucas Nachez, Dante Ferreira Franceschini, Fagner Marçal Andrade
11:30 - D5.3
High resolution mechanical characterization of DLC coatings
Thomas Chudoba[1]; [1]Advanced Surface Mechanics Gmbh
11:45 - D5.4
Diamond-like carbon thin films with improved properties produced by a magnetron sputtering device
Adão Felipe Oliveira Skonieski[1,2,3], Alexandre da Silva Rocha, Helge Decho, Thomas Hirsch, Heinz-Rolf Stock; [1]Federal University Of Rio Grande do Sul, [2]Institut Für Werkstofftechnik, [3]Programa de Pós-Graduação Em Engenharia de Minas Metalúrgica E de Materiais
12:00 - D5.5
The influence of microwave post-discharge plasmas surface treatment on carbon fiber mechanical properties
Mauro Santos Oliveira Jr.[1], Lúcia Vieira Santos, Jossano Saldanha Marcuzzo[1], Choyu Otani, Marcos Massi, Argemiro Soares da Silva Sobrinho; [1]Instituto Tecnológico de Aeronáutica
12:15 - D5.6
Development of catalytic membrane reactor with Pt/carbon hollow fiber for hydrogen generation
Francisco Batista Dos Santos Segundo, Joel Santana do Nascimento[1], Cristiano Piacsek Borges, Vera Maria Martins Salim; [1]Universidade Federal do Rio de Janeiro

WEDNESDAY, SEPTEMBER 28TH

SESSION D6
09:30 - 10:30 - Room 03

09:30 - D6.1
Friction behavior of different systems at the nanoscale
Carlos Alejandro Figueroa, Vânia Sonda, Caroline Luvison[1], Marcelo Maia da Costa, Eduardo Kirinus Tentardini[2], Maria Cristina Farias, Israel Jacobi Baumvol; [1]Universidade de Caxias do Sul, [2]Universidade Federal de Sergipe
09:45 - D6.2
Multilayered thin films analysis by minimization of deformation energy
Julio Miranda Pureza[1], Monica Mesquita Lacerda,

Grazielle Bortolini; [1]Universidade do Estado de Santa Catarina

10:15 - D6.3

Characterization of hydroxyapatite nanoparticles with surface modified by stearic acid.

Thiago Augustus Remacre Munareto Lima, Mario Ernesto Giroldo Valerio, Alyne Dantas Lima, Nataly Silva Brito, Rodrigo Mendonça Bispo, Rogéria Souza Nunes

10:30 - D6.4

Apatite Coating On The Uhmwpe Surface: Evaluation Of The Influence Of Surface Modification By Treatment With H_2o_2 Solution On Its Mechanical Properties And Ability To Form An Apatite Coating

Anahi Herrera Aparecida, Marcus Vinícius Lia Fook, Antonio Carlos Guastaldi

SESSION D7
11:00 - 12:30 - Room 03

11:00 - D7.1

Producing crystalline bioceramic thin coatings, with pulsed lasers and dual sputtering at room temperature.

Fabrício Frizera Borghi[1], Elvis Lopez Meza, Ricardo Magnus Osório Galvão, Alexandre Malta Rossi, Alexandre Mello de Paula Silva; [1]Centro Brasileiro de Pesquisas Físicas

11:15 - D7.2

Preparation and characterization of calcium-phosphorus surface coatings on commercially pure titanium

Bruno Ramos Chrcanovic[1], Nathalia Lorrayne Costa Leão, Maximiliano Delany Martins; [1]Centro de Desenvolvimento da Tecnologia Nuclear

11:30 - D7.3

Coulometry and Voltammetry of Ultrasmall Colloids: Introduction to a new Field

Francisco Augusto Tourinho[1], Epitacio Pinto Marinho, Cleber Lopes Filomeno[1], Tais Augusto Pitta Garcia Cota, Jerome Depeyrot; [1]Universidade de Brasília

11:45 - D7.4

Ultrasonic Production Of Nano-Size Dispersions And Emulsions

Kathrin Hielscher

12:00 - D7.5

Polyvinyl butyral (PVB) from laminated-glass waste forencapsulating photonic devices

Diana Raquel Siqueira da Silva[1], Petrus D'amorim Santa-Cruz; [1]Universidade Federal de Pernambuco

12:15 - D7.6

Comparsion Of Colagen Coated Phbv Nanofiber By Chemical And Phsical Methods

Esmaeil Biazar[1], Saeed Heidari K, Khalil Pourshamsian; [1]Islamic Azad University- Tonekabon Branch

SESSION D8
15:00 - 16:00 - Room 03

15:00 - D8.1

Pitting Corrosion in Supermartensitic Stainless Steels Welded using the Electrochemical Cell-Pen

Cesar Augusto Duarte Rodrigues[1], Germano Tremiliosi-Filho, Josias Falararo Pagotto, Artur Jesus Motheo; [1]Instituto de Química de São Carlos

15:15 - D8.2

Pack aluminization of a commercial nickel Superalloy

Ana Sofia Clímaco Monteiro D'oliveira, Rafaela Lopes da Silva[1,2], Edson H. Takano; [1]Universidade Federal do Paraná, [2]Instituto de Tecnologia Para O Desenvolvimento

15:30 - D8.3

A review on the formation of nanostructured alumina by Al ultra-thin film anodization

Adriano Friedrich Feil[1], Pedro Migowski, Livio Amaral, Sergio Ribeiro Teixeira[1]; [1]Universidade Federal do Rio Grande do Sul

15:45 - D8.4

Effect of some process parameters on the resulting characteristics of oxide layers grown by the plasma electrolytic process

Gérard Henrion[1], Amer Melhem, Julien Martin, Teresa Toll-Duchanoy, Thierry Czerwiec, Thierry Belmonte[1]; [1]Institut Jean Lamour, Ecole Des Mines de Nancy, Cnrs, Umr7198

POSTER PRESENTATIONS

MONDAY , SEPTEMBER 26TH

SESSION SP1
16:00 - 18:00 - Exhibition Hall

SP1-D1 - Living Free Radical Polymerization (LFRP) in Emulsion: the effect of different operating conditions on the performance of the process

Eduardo Galhardo[1], Liliane M.f. Lona; [1]Universidade Estadual de Campinas

SP1-D2 - kraft paper industry by-product as a potential protective product for fast growing wood.

Kelly Bossardi[1], Ricardo Marques Barreiros; [1]Universidade Estadual Paulista "júlio de Mesquita Filho" - Campus Experimental de Itapeva

SP1-D3 - Autodeposition to replace the electrodeposition process.

Kelly Bossardi[1], Pelayo Munhoz Olea; [1]Universidade Estadual Paulista "júlio de Mesquita Filho" - Campus Experimental de Itapeva

SP1-D4 - pHEMA hydrogels coatings on UHMW substrates for applications as articular cartilage

Marcele Fonseca Passos, Vanessa Petrilli Bavaresco, André Luiz Jardini Munhoz, Rubens Maciel Filho

SP1-D5 - Formation of protective ZrN/TiN coatings on Nitinol by duplex treatment

Juliane Carla Bernardi, Carla Daniela Boeira[1], Cíntia Lugnani Amorim, Israel Jacobi Baumvol, Fernando Silvio Ramone, Almir Spinelli, Rodrigo Leonardo Basso; [1]Universidade de Caxias do Sul

SP1-D6 - Microstructural Characterization Of A Superficially Quenched Cut Instrument From Of Palm Oil

Evaldo Júlio Ferreira Soares[1], Elielson Alves Dos Santos, João Luis Pereira, Tainã Fernandes Rodrigues, Tatianne Cristine de Oliveira Nunes; [1]Federal Institute Of Education, Science And Technology Of Pará

SP1-D7 - Application Of The Films Polimerized By Plasma From Hmdso For Corrosion Protection Of Aisi 304 Steel

Nazir Monteiro Dos Santos[1], Elidiane Cipriano Rangel, Jayr Amorim Filho, Nilson Cristino Cruz, Bianca O. Pelici, Célia Marina A. Freire; [1]Universidade Estadual Paulista "júlio de Mesquita Filho" (Unesp Sorocaba) - Laptec

SP1-D8 - Influence of deposition parameters on morphology and structure of nanocrystalline diamond films grown by CVD (Chemical Vapor Depostion)

Lívia Elisabeth Vasconcellos de Siqueira Brandão[1], Rafael Gustavo Torres Leal, Naira Maria Balzaretti[1]; [1]Universidade Federal do Rio Grande do Sul

SP1-D9 - Plasma nitriding of nickel-titanium alloy and its corrosion resistance

Carla Daniela Boeira[1], Juliane Carla Bernardi, Cintia Lugnani Gomes Amorim, Israel Jacobi Baumvol, Fernando Silvio Ramone, Almir Spinelli, Rodrigo Leonardo Basso; [1]Universidade de Caxias do Sul

SP1-D10 - The relationship between cellular adhesion and surface roughness for modified polyurethane by microwave – plasma radiation

Majid Taghiof[1], Esmaeil Biazar[1], S.neda Ajdadi; [1]Islamic Azad University- Tonekabon Branch

SP1-D11 - Formation of titania nanotubes by anodization of titanium

Jorge Luiz Rosa, Marcello Pederiva Piassa, Alain - Robin, Roberto Zenhei Nakazato

SP1-D12 - Surface layer characterization of Plasma sintered unalloyed iron samples enriched with Mo and nitrided.

Tatiana Bendo[1], Ana Maria Maliska, Henrique Cezar Pavanati, Keila Christina Kleinjohann[1], Euclides Alexandre Bernardelli; [1]Universidade Federal de Santa Catarina

SP1-D13 - Evaluation of Stryphnodendron sp release using natural rubber latex membrane as carrier

Rondinelli Donizetti Herculano[1], Regildo Márcio Gonçalves da Silva, Karoline Romeira Mansano; [1]Universidade Estadual Paulista "júlio de Mesquita Filho"

SP1-D14 - Study of the behavior of filling flow polymer in a symmetrical geometric distribution system applied in an injection molding.

Écio José Molinari[1], Bruno Mickael Böhr de Oliveira, Juliana Graunke; [1]Sociedade Educacional de Santa Catarina - Ist/joinville

SP1-D15 - TiN/ZrN Multilayer Coatings on P/M-Ti-35Nb-7Zr-5Ta substrates

Vinicius Rodrigues Henriques, Octávio Camargo Schichi, Carlos Alves Cairo, Cosme Moreira Silva

SP1-D16 - Characterization of dieletric films thermally grown on single-crystalline silicon carbide and the solid interface formed

Aline Tais da Rosa[1], Silma Alberton Corrêa, Cláudio Radtke, Gabriel Vieira Soares, Cristiano Krug, Daniel Lorscheitter Baptista, Fernanda Chiarello Stedile; [1]Universidade Federal do Rio Grande do Sul

SP1-D17 - The morphology, chemical composition, and mechanical properties of TiO2, Nb2O5, ZrO2, and TixNbyZrz thin films deposited by magnetron sputtering on Si (111)

Denise Tallarico, Angelo Gobbi, Pedro Iris Paulin Filho, Marcelo Maia da Costa, Anouk Galtayries, Pedro Augusto de Paula Nascente[1]; [1]Universidade Federal de São Carlos

SP1-D18 - Electrochemical behavior of anodized titanium at different phosphoric acid concentrations

Carlos Eduardo Valdés de Freitas[1], Lucas Gomes Almeida, Luize Jardim, Eduardo Norberto Codaro, Heloisa Andréa Acciari; [1]Universidade Estadual Paulista Júlio de Mesquita Filho

SP1-D19 - Corrosion resistance of anodized titanium at different electrochemical conditions
Carlos Eduardo Valdés de Freitas[1], Lucas Gomes Almeida, Luize Jardim, Eduardo Norberto Codaro, Heloisa Andréa Acciari; [1]Universidade Estadual Paulista Júlio de Mesquita Filho

SP1-D20 - Surface treatments based on self-assembling molecules for corrossion protection of AA1100
Daniel Sierra Yoshikawa, Maysa Terada[1], Sérgio Luiz de Assis, Isolda Costa[2]; [1]Laboratório Nacional de Nanotecnologia, [2]Instituto de Pesquisas Energéticas E Nucleares

SP1-D21 - Attachment of 2,2-Bipyridine onto a silica gel forapplication as a sequestering agent for copper ionsfrom an aqueous medium
Alexandre de Oliveira Jorgetto[1], Elton José de Souza, Pedro Magalhães Padilha, Rafael Innocenti Vieira Silva, Sônia Maria Alves Jorge, Gustavo Rocha de Castro, Marco Antonio Utrera Martines; [1]Universidade Estadual Paulista "júlio de Mesquita Filho" - Bauru

SP1-D22 - Influence of loss mass and friction coefficient for cleaning of debris sliding system
Ane Cheila Rovani[1,2], Vanessa - Seriacopi[3], Izabel Fernanda Machado, Amilton - Sinatora; [1]Universidade de São Paulo, [2]Departamento de Engenharia Mecânica, [3]Escola Politécnica de Universidade de São Paulo

SP1-D23 - Finite element analysis of stresses field in the pin on disc test
Vanessa - Seriacopi[1], Ane Cheila Rovani[2,3], Amilton - Sinatora, Izabel Fernanda Machado; [1]Escola Politécnica de Universidade de São Paulo, [2]Universidade de São Paulo, [3]Departamento de Engenharia Mecânica

SP1-D24 - Synthesis of carbon-based coatings obtained by a Segmented Hollow Cathode arrangement
Felipe Cemin, Ângela Elisa Crespi[1], Eliena Jonko Birriel, Marcelo Maia da Costa, Santiago Corujeira Gallo, Israel Jacobi Baumvol, Carlos Alejandro Figueroa; [1]Universidade de Caxias do Sul

SP1-D25 - Technological development of chitosan microparticles by spray-dryer for pulmonary administration of dapsone
Manoel 0Rtiz[1], Denise Jornada, Adriana Raffin Pohlmann, Silvia Guterres; [1]Universidade Federal do Rio Grande do Sul

SP1-D26 - Comparative study of the fatigue behavior of the ABNT 4340 steel covered with electroplated cadmium and aluminum by ion vapor deposition (IVD)
Mauro Pedro Peres[1], Herman Jacobus Voorwald, Lucas Cruz Amarante, Maria Odila Cioffi, Midori Yoshikawa Costa; [1]Universidade Estadual Paulista

SP1-D27 - Effect of different abrasive materials and processes in adhesion of PVD coatings
Caroline Luvison[1], Santiago Corujeira Gallo, Israel Jacob Rabin Baumvol, Carlos Alejandro Figueroa; [1]Universidade de Caxias do Sul

SP1-D28 - AFM and SEM analysis of different Al_2O_3 blasting surface treatments on titanium
Bruno Ramos Chrcanovic[1], Maximiliano Delany Martins; [1]Centro de Desenvolvimento da Tecnologia Nuclear

SP1-D29 - The Shot- Peening Influence in Mechanical Behavior of Fillet Welded Joints in a Dual Phase Steel
Caio de Paula Camargo Pisano[1], Marco Colosio, Jose Castillo, Daniel Benitez Barrioz, Felipe Rezende, Antônio Mello, Jan Vatavuk; [1]Universidade Presbiteriana Mackenzie

SP1-D30 - Laser Cladding of NiCrAl and NiCrAlY powders in MAR-M247(Nb) superalloy
Renato Baldan[1], Carlos Angelo Nunes, Rui Mario Correia da Silva Vilar, Amélia Almeida; [1]Escola de Engenharia de Lorena - Universidade de São Paulo

SP1-D31 - Parameterization of the reflectivity of Al thin films at microwave frequencies
Mauro Angelo Alves[1], Luiza C. Folgueras, Viviane L. Soethe, Evandro L. Nohara, Mirabel Cerqueira Rezende; [1]Instituto de Aeronautica E Espaco

SP1-D32 - Physicochemical and structural properties of CrN thin films obtained by DC reactive magnetron sputtering
Aline Luísa Bandeira, Ronaldo Echer Trentin, Carlos Alejandro Figueroa, Israel Jacobi Baumvol, César Aguzzoli, Maria Cristina Farias

SP1-D33 - Improvement in fatigue life of AISI 9254 steel springs by multiple shot-peening
Larissa Vilela Costa, Jose Rubens Gonçalves Carneiro, Pedro Brito

SP1-D34 - Mechanical Properties of LDX2101 Duplex Stainless Steel Submitted to Glow Discharge Nitriding at Low Temperatures and Different Nitrogen Atmospheres
Carlos Eugenio Foerster[1], Andre Assmann, Francisco Carlos Serbena, Carlos Mauricio Lepienski; [1]Universidade Estadual de Ponta Grossa

SP1-D35 - Comparison between experimental curves of resistivity for thin films of Aluminium

and predictions with semiclassical models
Samuel Leal da Silva, Raphael Barata Kasal[1], Carlos Luiz Ferreira; [1]Centro Tecnológico do Exército

SP1-D36 - Surface patterning of low carbon steel: the influence of grid composition and geometry
Keila Christina Kleinjohann[1], Ana Maria Maliska, Frederico Sellos Mattoso, Tatiana Bendo[1], Euclides Alexandre Bernardelli; [1]Universidade Federal de Santa Catarina

SP1-D37 - Wear rate of carbon black coating applied by laser process on 4340 steel
Getulio de Vasconcelos, Daniele Cristina Chagas, Eder Alves Monteoliva

SP1-D38 - Biocorrosion of the AISI 300M steel
Sabrina Moura Rovetta[1], Antonio Jorge Abdalla, Sônia Khouri, Walter Miyakawa; [1]Instituto de Estudos Avançados

SP1-D39 - Montmorillonite clay/PEO based macro RAFT agent in water dispersion: Evaluation of pH, temperature and concentration influence on the macro RAFT adsorption and colloidal stability through a 2^{4-1} factorial design.
Rafael Caetano Jardim Pinto da Silva, Alexandre Isalino Dos Santos, Messias Borges Silva, Maria Lucia Caetano Pinto da Silva, Elodie Bourgeat-Lami, Amilton Martins Dos Santos

SP1-D40 - Microstructure and Properties of CoCrMoSi Alloy
Adriano Scheid[1], Ana Sofia Clímaco Monteiro D'oliveira; [1]Universidade Federal do Paraná

SP1-D41 - Plasma Enhanced Chemical Vapor Deposition Of Organic Films Containing Aluminum Oxide
Guilherme Fernandes Nielsen, Elidiane Cipriano Rangel, Leonardo Arruda Duarte Bandeira, Luiz Henrique Ferreira Silva

SP1-D42 - Carburization resistance of aluminized Ni-based coating
Breno Syriani Veluza[1], Ana Sofia Clímaco Monteiro D'oliveira; [1]Universidade Federal do Paraná

SP1-D43 - Study Of The Microstructural By Raman Spectroscopy Of Films Of W-Alloyed Dlc: H Subjected To Scratch Tests.
Fabrício Xavier Faustino[1], Fernanda Blandina Dos Santos, Carlos Wagner Moura E Silva, Jose Roberto Branco; [1]Fundação Centro Tecnologico de Minas Gerais

SP1-D44 - Effect Of The Silane Concentration Onthe Selected Properties Of Anexperimental Dental Composite Resin
Ricardo Marques E Silva[1], Cesar Henrique Zanchi, Rafael Guerra Lund, Heloisa Helena Machado, Fabrício Ogliari, Neftalí Lenin Villarreal Carreño, Evandro Piva; [1]Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais

SP1-D45 - Electrochemical behavior of thin films applied on titanium and Ti-6Al-4V alloy.
Juan Guilhermo Martim[1], Bruna Rossi, Maria Teresinha Serrão Peraçolli, Ramon Kaneno, Cristiane Barbieri Rodella, Ariovaldo Oliveira Florentino, Margarida Juri Saeki; [1]Universidade Estadual Paulista Júlio de Mesquita Filho - Posmat

SP1-D46 - Plasma carbonitrided and post-oxidized of plain steels for applications in ethanol fuel engine
Rosiana Boniatti, Stevan Tomiello, Santiago Corujeira Gallo, Eliena J. Birriel, Carlos Alejandro Figueroa, Israel Jacobi Baumvol

SP1-D47 - Chemical Deposition of Thin Films of Polyaniline on AA7075 and AA8006 aluminum alloys
Leandro Duarte Bisanha[1], Rodrigo de Santis Neves, Ivana Cesarino, Sergio Antonio Spinola Machado, Artur Jesus Motheo; [1]Universidade de São Paulo

SP1-D48 - Influence Of Sigma Phase In The Corrosion Resistance Of The Austenitic-Ferritic Stainless Steel Sew 410 Nr 14517 Used In The Petrochemistry Industry
Wandercleiton da Silva Cardoso[1], Rafael Agrizzi Souza, André Itman Filho; [1]Instituto Federal de Educação, Ciência E Tecnologia do Espírito Santo

SP1-D49 - Tribological properties of a-C:H coating on 16MnCr5 alloy steel grown by plasma immersion ion implantation and deposition (PIIID) technique
Ronaldo Junior Dos Santos[1], Lucia Vieira Santos, Elidiane Cipriano Rangel, Nilson Cristino Cruz, José R. Ribeiro Bortoleto, Péricles Lopes Sant´ana[2]; [1]Universidade Estadual Paulista "julio de Mesquita Filho" - Posmat, [2]Universidade Estadual Paulista Júlio de Mesquita Filho

SP1-D50 - Effects of implantation time on tribological properties of a-C:H films on 16MnCr5 alloy steel grown by plasma immersion ion implantation and deposition (PIIID)
Ronaldo Junior Dos Santos[1], Lucia Vieira Santos, Elidiane Cipriano Rangel, Nilson Cristino Cruz, José R. Ribeiro Bortoleto, Péricles Lopes Sant´ana[2]; [1]Universidade Estadual Paulista "julio de Mesquita Filho" - Posmat, [2]Universidade Estadual Paulista Júlio de Mesquita Filho

SP1-D51 - Evaluation of the tribological behavior

of steel microalloyed GG38MnSiS5
Pamela Seixas Peruzzo[1], Marcio Roberto da Rocha, Angela Beatriz Coelho Arnt, Tomaz Barreto da Silva, Cleber Pereira Fenili; [1]Universidade do Extremo Sul Catarinense

SP1-D52 - IR reflectance analysis of SnO_2 thin films by high pressure
Thiago Sequinel[1], Evaldo Toniolo Kubaski, Gabriele Scheidt, Samara Schmidt[2], Sidnei Antonio Pianaro, Sergio Mazurek Tebcherani, José Arana Varela[3]; [1]Instiruto de Quimica Unesp, [2]Universidade Estadual de Ponta Grossa, [3]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP1-D53 - Growth of silica nanowire bunches with atmospheric micro-afterglow
Gregory Arnoult, Ayman Al Taweel, Thomas Gries, Thierry Belmonte[1]; [1]Institut Jean Lamour, Ecole Des Mines de Nancy, Cnrs, Umr7198

SP1-D54 - Fracture toughness and crack morphology in glass ceramics of lithium disilicate
Sara Blunk Massardo[1], Carlos Mauricio Lepienski; [1]Universidade Federal do Paraná

SP1-D55 - Fluorinated silicon oxide composite materials useful for harsh environments
Leonardo Frois Hernandez[1], Alexandre Alves de Jesus, Alisson Rodolfo Leite, Estevan Rosim Fachini, Roberto da Rocha Lima, Maria Lúcia Pereira da Silva; [1]Escola Politécnica da Universidade de São Paulo

SP1-D56 - Composite plasma thin films for surface protection and adsorption of organic compounds
Alexandre Alves de Jesus, Leonardo Frois Hernandez[1], Alisson Rodolfo Leite, Estevan Rosim Fachini, Roberto da Rocha Lima, Maria Lúcia Pereira da Silva; [1]Escola Politécnica da Universidade de São Paulo

SP1-D57 - Structure, composition, and mechanical characterization of dc sputtered TiN-MoS2 nanocomposite thin films
Eduardo Kirinus Tentardini[1]; [1]Universidade Federal de Sergipe

TUESDAY , SEPTEMBER 27TH
SESSION SP2
14:00 - 16:00 - Exhibition Hall

SP2-D58 - Aging investigation of Ag-doped waveguides produced by ion-exchange
Patrícia Loren, Marcelo Barbalho Pereira[1], Ricardo Correia, Bruno Barreto, Flavio Horowitz; [1]Institute Of Physics - Ufrgs

SP2-D59 - Oxidation resistance of aluminides coatings Fe-Al deposited by PTA
Gustavo Bonfim Kapusta[1], Ana Sofia Clímaco Monteiro D'oliveira; [1]Universidade Federal do Paraná

SP2-D60 - Protein determination using polyaniline FET-based device
Nirton Vieira, Edson Giuliani Ramos Fernandes, Alessandra Figueiredo, Valtencir . Zucolotto, Francisco E.g. Guimaraes[1]; [1]Universidade de São Paulo - Instituto de Física de São Carlos

SP2-D61 - Analysis of the osseointegration in dental implants of Ti-30Ta alloy after biomimetic surface treatment
Lu Luciana Carvalho, João Augusto Guedes Oliveira, Sandra Giacomin Schneider, Maria Cristina Rosifini Alves Rezende, Ana Paula Rosifini Alves Claro

SP2-D62 - Effect of purification on electrospun galactomannan nanofibers
Adriana Freire Lubambo, Rilton Alves de Freitas, Bruno Morais Serafim, Neoli Lucyszyn, Maria- Rita Sierakowski, Cyro Ketzer Saul

SP2-D63 - Active metals for the mechanical metallization of oxide technical ceramics
Tarcisio Eloi de Andrade Junior[1], Antonio Eduardo Martinelli[2], Sonja Michaela Gross, Rubens Maribondo do Nascimento; [1]Universidade Federal Rural do Semi, [2]Universidade Federal do Rio Grande do Norte

SP2-D64 - Wettability of hydrogenated amorphous carbon films: deposition temperature dependence
Douglas Natan Dias Gomes[1], Marcio José Particheli[1], Ricardo Antonio de Simone Zanon, Julio Miranda Pureza[2], Monica de Mesquita Lacerda, Erlon Henrique Martins Ferreira, Carlos Alberto Achete[3]; [1]Fundação Universidade do Estado de Santa Catarina, [2]Universidade do Estado de Santa Catarina, [3]Instituto Nacional de Metrologia, Normalização E Qualidade Industrial

SP2-D65 - Influence Of Radiation On Hydrogenated Amorphous Carbon Films Structure And Wettability
Marcio José Particheli[1], Douglas Natan Dias Gomes[1], José Fernando Fragalli, Ricardo Antonio de Simone Zanon, Monica de Mesquita Lacerda, Carlos Alberto Achete[2]; [1]Fundação Universidade do Estado de Santa Catarina, [2]Instituto Nacional de Metrologia, Normalização E Qualidade Industrial

SP2-D66 - Substrate surface modification in Ar plasma improves antibiofilm activity of microbial extracts

Susana de Oliveira Elias[1], Igor Stelmach Pessi, Fernado Bonatto, Cristiano Krug, Alexandre José Macedo; [1]Universidade Federal do Rio Grande do Sul

SP2-D67 - Multifunctional nanocomposites between iron-filled carbon nanotubes and acrylic latex: preparation, characterization and properties.

Carolina Ferreira de Matos[1], Fernando Galembeck, Aldo J.g. Zarbin[1]; [1]Universidade Federal do Paraná

SP2-D68 - Silver nanoparticles synthesized on cellulosic supports

Bruna da Silva Pereira[1], Ana Adelina Winkler Hechenleitner, Edgardo Alfonso Gómez Pineda, Marcela Fernandes Silva[1], Michele Karoline Lima, Saulo Renan Ferreira Sottoriva; [1]Universidade Estadual de Maringá

SP2-D69 - Determination And Characterization Of The Content Of Salts Presents In Water Samples Of Oil Production

Isaac Daniel Guaitolini Silva[1], Vinicius Guilherme Celante, Eustáquio Vinicius Ribeiro de Castro, Maria Fatima Fontes Lelis; [1]Universidade Federal do Espírito Santo

SP2-D70 - Implementation and calibration of an instrumented indenter

Francisco Carlos Serbena, Fabiane de Fatima Carvalho, Carlos Eugenio Foerster[1], Carlos Mauricio Lepienski; [1]Universidade Estadual de Ponta Grossa

SP2-D71 - Interaction of Chlorhexidine with Biomembrane Models on Glass Ionomer by using the Langmuir-Blodgett Technique

Bruno Luis Possani Costalonga[1], Renata Cristiane da Silva, Luciano Caseli[2], Celso Molina[2]; [1]Universidade Federal de São Paulo (Unifesp), [2]Universidade Federal de São Paulo

SP2-D72 - Electrochemical study of the polymerization of 3-hidroxybenzoic acid on graphite electrodes surface

José Manuel Rodrigueiro Flauzino[1], Isabela Lemos de Lima, Heden da Costa E Silva Alves, Ana Graci Brito-Madurro, João Marcos Madurro; [1]Universidade Federal de Uberlândia

SP2-D73 - Helium Plasma Effect on Starch Films Surface

Marta Duarte da Fonseca[1], Daniele Cruz Bastos, Tania Mara Garcia, Renata Antoun Simão; [1]Universidade Federal do Rio de Janeiro

SP2-D74 - Microstructure And Microhardness Of The Superalloy Hastelloy C 276 Applied To The Internal Coating Of Pipes For Carbon Stell Process Mig-Cw

Marcio Wagner Santos, Henrique Fernando Pinheiro Espirito Santo, Diego Almir Silva da Silva, Carlos Alberto Mendes Mota

SP2-D75 - Determination of crystallinity by X-ray Diffraction (XRD) and differential scanning calorimetry (DSC) as tools for monitoring the PA-11 aged in distilled water at different temperatures.

Eloilson Domingos, Thieres Magaive Pereira, Josué Alves de Queiróz Júnior[1], Eustaquio Vinicius Ribeiro de Castro, Wanderson Romão, Geovane Lopes de Sena; [1]Universidade Federal do Espírito Santo

SP2-D76 - Study By Eis Of Coatings Of Silanes Btse Or Vs On Films Containing With Rare Earth Salts For Corrosion Protection Of Tha Iron-Zinc Alloy

Márcia Cristina Gonçalves Santos[1], Célia Marina A. Freire; [1]Universidade Estadual de Campinas

SP2-D77 - Application of Electronic Conducting Polymers to Epoxy-based Coatings for Protection Against Corrosion of Metals

Alessandra Fiorini Baldissera[1], Luana S. Oliveira, Carlos Arthur Ferreira; [1]Universidade Federal do Rio Grande do Sul

SP2-D78 - Incorporation of itraconazole in nanostructured systems using propoxyl ethoxyl cethyl alcohol as surfactant

Gabriela Marielli da Luz, Mariane Hiromi Hirata[1], Hilris Rocha E Silva, Maria Palmira Daflon Gremião; [1]Universidade Estadual Paulista - Araraquara

SP2-D79 - Obtaining of bactericidal ceramics using the forced impregnation method

Juliana de Oliveira Pimenta[1], Evaldo Toniolo Kubaski, Thiago Sequinel[2], Luiz Ricardo Olchanheski, Marcos Pileggi, Sergio Mazurek Tebcherani, José Arana Varela[3]; [1]Universidade Estadual Paulista Júlio de Mesquita Filho, [2]Instituto de Quimica Unesp, [3]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP2-D80 - Characterization and Evaluation of Corrosion Coatings for Food Packaging

Luciana Machado Rodrigues, Gabriel Porto Quadros[1], Éric da Cruz Severo; [1]Fundação Universidade Federal do Pampa

SP2-D81 - Electrogeneration of polymeric films derived from 3-aminothiophenol for immobilization of DNA fragments of meningitis

Vinícius de Rezende Rodovalho[1], Ana Cristina Honorato Castro[1], Ana Graci Brito-Madurro, João Marcos Madurro, Roney Santos Coimbra, Sara Cuadros Orellana; [1]Universidade Federal de

Uberlândia

SP2-D82 - Study of alternative raw-materials for obtaining of powder used in thermal spraying
Gabriela de Bastos[1], Gian Paganotto, Luiz Gilberto Konrath Júnior[1], Neftalí Lenin Villarreal Carreño, Margarete Regina Freitas Gonçalves, Sergio da Silva Cava; [1]Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais

SP2-D83 - Steel Pickling
Ana Paula Simões Bondiolli[1], Roberta Piffer Teixeira, Fernando Vernilli Júnior; [1]Escola de Engenharia de Lorena - Universidade de São Paulo

SP2-D84 - Elastic modulus and hardness of metallic interfaces
André Luiz Costa, Yuri Melo Alves, Paulo Mário Machado Araújo

SP2-D85 - Plasma nitriding of powder metallurgy steels
Thiago Marques Ivaniski, Carlos Alejandro Figueroa, Israel Jacobi Baumvol, Santiago Corujeira Gallo

SP2-D86 - Titanium diboride films: The effects of the substrate bias and the deposition pressure
Carlos Sanchez Tasayco, Fernando Lazaro[1]; [1]Pontifícia Universidade Católica do Rio de Janeiro

SP2-D87 - Improvement of the corrosion resistance of titanium alloy implanted by nitrogen PIII at high temperature in different heating systems
Graziela da Silva Savonov[1], Mário Ueda, Rogério Moraes Oliveira, Choyu Otani; [1]Instituto Nacional de Pesquisas Espaciais

SP2-D88 - Corrosion of silver in natural and artificial sea water
Carlos Alberto Picon[1], Frederico Augusto Pires Fernandes[2], Carlos Alberto Picon[2], Germano Tremiliosi-Filho, Luiz Carlos Casteletti; [1]Universidade Estadual Paulista "júlio de Mesquita Filho" - Campus Ilha Solteira, [2]Universidade de São Paulo

SP2-D89 - Microstructural And Mechanical Comparison Of The Multipass Welding of The Astm A-516 Grade 70 Steel By The Processes Smaw And Fcaw
Mariana Cabral de Souza[1], Carlos Roberto Xavier, Rogério da Silva Carolino[1], Rosinei Batista Ribeiro; [1]Centro Universitário de Volta Redonda

SP2-D90 - Preparation and characterization of Polystyrene film with highly ordered pores
Elisângela Silva Pinto[1], Adriana Madalena de Araújo Faria, Bernardo Ruegger Almeida Neves; [1]Instituto Federal de Minas Gerais

SP2-D91 - Fractal Dimension Determination for Digital Speckle Patterns inRoughness Control of Metallic Surfaces
Carlos Roberto de Sousa Santos, João Batista Meireles, José Augusto Oliveira Huguenin, Dilson P. Caetano, Ladário da Silva[1]; [1]Universidade Federal Fluminense

SP2-D92 - Nanostructured iron oxide thin films produced by sol-gel spin-coating.
Mauricio A. C. de Melo, Otavio A, Capeloto, Otavio A Protzek, Gustavo Sanguino Dias, Ivair Aparecido Santos, Ana Adelina W. Hechenleitner, Edgardo Alfonso Gómez Pineda

SP2-D93 - Colouring Anodizing of Al pure
Natal Nerímio Regone, Ricardo Marques Barreiros, Guilherme Macedo Silva

SP2-D94 - Effect of supramolecular ultrathin films formed on copper phthalocyanine and a natural polysaccharide with applications in sensor neurotransmitter
Silio Lima de Moura[1], Ionara Nayana Gomes Passos, José Aroldo Viana Dos Santos, Jose Ribeiro Santos Junior; [1]Universidade Federal do Piauí

SP2-D95 - The control of apatite mineralization by self-assembled monolayers
Vilany Santos Carvalho[1], Cristiane Xavier Resende, Euler Araujo Dos Santos; [1]Universidade Federal de Sergipe

SP2-D96 - Evaluation and comparison of corrosive processes between systems: metal packaging/cupuaçu sweet and metal packaging/food simulant.
Bianca Oliveira Pelici, Célia Marina A. Freire, Maria Teresa Freire, Augusta Felipe

SP2-D97 - Innovative use of ultrasound in the manufacture of paints and coatings
Kathrin Hielscher

SP2-D98 - Order increase of a self-ordered PAA ultra-thin films by two-step anodization process
José Ricardo Borba[1], Louise Potrich, Adriano Friedrich Feil[1], Sergio Ribeiro Teixeira[1]; [1]Universidade Federal do Rio Grande do Sul

SP2-D99 - Effect of clay purification and organic modification on the mechanical and barrier properties of LLDPE/Bentonite films
Eduardo Mello Silva, Laura Carvalho, Eduardo Luis Canedo, Arthur R. Albuquerque Araújo, Maria Goretti Coutinho, Raquel Bezerra Costa

SP2-D100 - Montmorillonite–KSF modified with 1-dodecylamonnium as adsorbent for remazol blue R

Maria Gardennia Fonseca[1], Marcia Maria Silva, Jose Geraldo Espinola, Ramon Kenned de Sousa Almeida[2]; [1]Universidade Federal da Paraíba, [2]University Of Campinas

SP2-D101 - Evaluation of glucose oxidase immobilization using organosilanes for biosensor application

Marco Elisio Marques[1,2], Alexandra Apisicitelli Mansur, Herman S. Mansur; [1]Universidade Federal de Minas Gerais, [2]Departamento de Engenharia Metalúrgiaca E Materiais

SP2-D102 - Microchannels plate construction: A surface comparison between DMLS and wet chemical etching

Aulus Bineli, Maria Ingrid Rocha Barbosa[1], Ana Paula Peres, André Luiz Jardini Munhoz, Rubens Maciel Filho; [1]Universidade Estadual de Campinas

SP2-D103 - Characterization and thermal stability of triethanolamine and SDS as corrosion inhibitors in oil industry.

Isaac Daniel Guaitolini Silva[1], Amanda de Angelis Vitoi, Vinicius Guilherme Celante, Eustáquio Vinicius Ribeiro de Castro, Marcos Benedito Jose de Freitas; [1]Universidade Federal do Espírito Santo

SP2-D104 - Effect of surfactant in the entrapment efficiency of praziquantel in nanostructured lipid carriers

Fernanda Kolenyak Dos Santos[1], Maria Palmira Daflon Gremião; [1]Universidade Estadual Paulista - Araraquara

SP2-D105 - Preliminary studies concerning 5083 aluminun alloy deposition in a substrate of 2024 using friction surfacing process

Claudio Javier Almirón[1], Matthias Beyer, Jorge Dos Santos, Pedro Pereira da Cunha, Cleber Lima Lessa, Telmo Roberto Strohaecker; [1]Universidade Federal do Rio Grande do Sul

SP2-D106 - Thermal oxidation of p-type silicon at low temperatures by reactive plasma

Saulo Alonso Silva[1], Jose Roberto Branco, Bill Willian Fadgen; [1]Fundação Centro Tecnológico de Minas Gerais

SP2-D107 - Spin-assembly multilayered light emitting organic structures

Mike Melo do Vale[1], Patrícia B. Catandi, Roberto Mendonça Faria[2], Francisco E.g. Guimaraes[3]; [1]Interunidades - Materiais - Eesc/ifsc/iqsc, [2]Instituto de Física de São Carlos, [3]Universidade de São Paulo - Instituto de Física de São Carlos

SP2-D108 - MEIS analysis of buried nanostructured materials

Dario Ferreira Sanchez, F. P. Luce, Cristiane Marin[1], F. Kremer, Z. E. Fabrim, Jêróme Leveneur, Maurício Sortica; [1]Post-Graduation Course In Material Science

SP2-D109 - Drilling granite with laser light

Luiz Carlos Guedes Valente, Maria Angélica Acosta, Paula M. P. Gouvea, Cicero Martelli, Arthur M. B. Braga

SP2-D110 - MEIS analysis of buried Pb nanoislands

Frâncio Souza Berti Rodrigues, Dario Ferreira Sanchez, Maurício Sortica, F. P. Luce, Z. E. Fabrim, Cristiane Marin[1], F. Kremer; [1]Post-Graduation Course In Material Science

SP2-D111 - Tsallis Entropy for Images of Digital Speckle Patterns in Roughness Control of Metallic Surfaces

Ronaldo Dias Correa, João Batista Meireles, Daniel Girardi, José Augusto Oliveira Huguenin, Ladário da Silva[1]; [1]Universidade Federal Fluminense

SP2-D112 - comparative study of the morphology surfaces of TiO2 deposited by air plasma spray

Pedro Ivo Polak, Ramón S. Cortés Paredes, Lucas Alan de Aguiar, Gustavo Bavaresco Sucharski, Ana Paula Vaz

SP2-D113 - Epoxy resin modified with silane as corrosion protection coating to carbon steel

Victor Cangussu Cardoso[1], Maria Eliziane Pires de Souza, Gislene Custódio; [1]Universidade Federal de São João Del Rei

SP2-D114 - Study on the adhesion of polyurethane derivate from castor oil varying the ratio polyol/prepolymer

Elaine Cristina Azevedo, Stefanie Hanel Antonizzi, Marina Cardoso Vasco, Eduardo Mauro Nascimento, Salvador Claro Neto

SP2-D115 - Analysis of capsaicin in the wood preservation to attack the Paecilomyces variotti fungus

Analine Crespo Ziglio[1], Débora Gonçalves; [1]Instituto de Física de São Carlos

SP2-D116 - High temperature wear behavior of Stellite 1 and Stellite 6 PTA coatings

Rafael José Nowacki Gomes[1], Ana Sofia Clímaco Monteiro D'oliveira; [1]Universidade Federal do Paraná

SP2-D117 - Evaluation of shear strength before and after corrosion test in aluminium-steel and aluminium-aluminium joints linked by two-component structural adhesive

Paula Emília de Souza Prates[1], Milvia Oliveira Dos Reis[1], Juliana Lopes Hoehne, Bruno Barreira

Fragoso; [1]Fiat Automóveis S.a.

SP2-D118 - Deposition Of Tin Film On Carbon Steel Bandsaw Blades By The Cold Plasma Tecnique

Tiélidy Lima, Gabriel Lima, Washington Magalhães, Neide Kazue Kuromoto

WEDNESDAY, SEPTEMBER 28TH

SESSION SP3

16:00 - 18:00 - Exhibition Hall

SP3-D119 - Surface hardness evaluation of plasma nitrided Ti-6Al-4V

Eduardo Blando[1], Saulo C. Lima, Ruth Hinrichs, Marcos A. Z. Vasconcellos; [1]Universidade Federal do Rio Grande do Sul

SP3-D120 - Depth profiles of hardness, phase and elemental composition of AISI H13, D2 and M2 steels, submitted to DC plasma treatment

Saulo Davila Jacobsen[1], Eduardo Blando[2], Ruth Hinrichs, Marcos A. Z. Vasconcellos; [1]Post-Graduation Course In Material Science, [2]Universidade Federal do Rio Grande do Sul

SP3-D121 - Contact fatigue behavior of plasma nitrided or nitrocarburized AISI 316L stainless steel

Frederico Augusto Pires Fernandes[1], Luiz Carlos Casteletti, Luis Llanes, Juno Gallego; [1]Universidade de São Paulo

SP3-D122 - Deposition of silica coatings on carbon fiber by TEOS pyrolysis for carbon nanotube growth

Erica Freire Antunes[1], Viviane Queiroz da Silva, Evaldo José Corat; [1]Instituto Nacional de Pesquisas Espaciais

SP3-D123 - Fabrication of transition metal oxide films by direct oxidation of pure metal films deposited by thermal evaporation

Ronaldo Pereira de Melo Júnior[1], Antônio Azevedo da Costa, Cid Bartolomeu de Araújo; [1]Universidade Federal de Pernambuco

SP3-D124 - Modifications in calcium containing films deposited onto titanium after soaking in simulated body fluid

Rita C. C. Rangel, Elidiane Cipriano Rangel, Rogério M Oliveira, Mário Ueda, Wido H Schreiner, Nilson Cristino Cruz

SP3-D125 - Mechanical and tribological characterization of fluorinated and hydrogenated amorphous carbon films on stainless steel

Erika Ochoa[1], Danny Araucano Holgado, Dante Ferreira Franceschini, Fernando Alvarez, Fernando Lazaro[1], Marcelo Maia da Costa; [1]Pontifícia Universidade Católica do Rio de Janeiro

SP3-D126 - Biocompatibility studies of diamond-like carbon films with incorporated nanocrystalline diamond particles

Cleber A Nunes, João Anderson Ferreira Irineu, Cristina Pacheco-Soares, Vladimir José Trava-Airoldi, Anderson O Lobo, Fernanda Roberta Marciano

SP3-D127 - Corrosion study of Titanium-Silicon (Ti-4Si) alloy.

Gleyce Tavares Ruel[1], Rafaela Bonifacio Dantas[1], Haroldo Marques Gonçalves, Rafael Toshio Sakai, Ivan Ramires; [1]Universidade Federal da Grande Dourados

SP3-D128 - Hot corrosion and oxidation by organic waste Biomass Fuel

Alexander Eduardo Caytuero[1], Isaias Alves, Erica Romão, Daltro Pinatti, Ruben Rosenthal; [1]Universidade Estadual do Norte Fluminense Darcy Ribeiro

SP3-D129 - Influence of growth temperature on strainrelaxation on diluted nitride InGaAsN/GaAs single quantum well

Carlos Alberto Zanutto Bassetto Junior[1], Jonatas Silva Cavalcante[2], Américo Sheitiro Tabata, José Brás Barreto de Oliveira[3]; [1]Universidade Estadual Paulista, [2]Universidade Estadual Paulista "júlio de Mesquita Filho", [3]Faculdade de Ciências de Bauru - Unesp

SP3-D130 - Multicomposites of Dendrimers and Vanadium Pentoxide Nanostructures: application as pH sensorsA.

Alessandra Figueiredo, Nirton C. S. Vieira, Waldir Avansi, Caue Ribeiro de Oliveira, Valmor Roberto Mastelaro[1], Valtencir . Zucolotto, Francisco Eduardo Gontijo Guimarães; [1]Universidade de São Paulo - Eesc/ifsc/iqsc

SP3-D131 - Organofunctionalized Kaolinite for the removal of Reactive Blue 15 in aqueous solution.

Ana Lucia Santos[1], Rúbia Ribeiro Viana, Claudio Airoldi; [1]Universidade Estadual de Campinas

SP3-D132 - Employment of systems like nanoshells for drug carriers photosensitizers

Mainã Portella Garcia[1], Anderson Orzari Ribeiro[1], Segundo Nilo Mestanza Munoz[1]; [1]Universidade Federal do Abc

SP3-D133 - Construction and analysis of surface images by using confocal laser scanning.

Andre Rezende de Figueiredo Oliveira[1], José Daniel Biasoli de Mello, Adamo Ferreira Gomes do Monte; [1]Universidade Federal de Uberlândia

SP3-D134 - Thickness measurement of multilayer thin films by reflectance data using LabVIEW
Gustavo Marcati Alves, Ricardo Cardoso Rangel, Ronaldo Domingues Mansano

SP3-D135 - Similarities of a-C:H films prepared by PIIID and by PECVD with subsequent ion beam bombardment
Elidiane Cipriano Rangel, José F Martinatti, Rita C. C. Rangel, Nilson Cristino Cruz

SP3-D136 - Surface patterning by DC plasma nitriding: a comparison between low carbon steel and sintered unalloyed iron
Keila Christina Kleinjohann[1], Ana Maria Maliska, Frederico Sellos Mattoso, Tatiana Bendo[1], Euclides Alexandre Bernardelli; [1]Universidade Federal de Santa Catarina

SP3-D137 - Characterization of a Nb-Si-B alloy coated by Fe, Cr, Si and B through Halide Activated Pack Cementation process
Douglas Vanderley Nanes Schimidt, Renan Freitas Gral, Fernando Graber, Antonio Augusto Araujo Pinto Silva, Alvaro Guilherme Junqueira Santos, Gilberto Carvalho Coelho, Carlos Angelo Nunes

SP3-D138 - Internal wettability of porous titanium used as bone implants
Giuseppe Zanella Sampaio[1], Anderson Moreira, Marize Oliveira, Celso Peres Fernandes, Iara Mantovani; [1]Universidade Federal de Santa Catarina

SP3-D139 - Effect of diffusion treatment on the hardening depth after plasma nitriding of ductile cast iron
Daniela Wollmann, Giuseppe Pintaúde, Julio Cesar Klein Neves, Guilherme Melo, Lucas Biazon Cavalcanti

SP3-D140 - Synthesis and caracterization of mesoporous deposit of Prussian Blue.
Karen Martins Crivellaro[1], Roseli Hiromi Sato, Pablo Alejandro Fiorito; [1]Fundação Universidade Federal do Abc

SP3-D141 - Surface morphology of interference thin films grown on stainless steel by an electrochemical process
Rosa Maria Rabelo Junqueira[1], Célia Regina Oliveira Loureiro, Vicente Tadeu Lopes Buono; [1]Fundação Centro Tecnologico de Minas Gerais

SP3-D142 - Hot corrosion and oxidation by Burner Rig combustion of gasified biomass
Alexander Eduardo Caytuero[1], Ruben Rosenthal, Isaias Alves, Daltro Pinatti; [1]Universidade Estadual do Norte Fluminense Darcy Ribeiro

SP3-D143 - A simple system for thin film deposition of CdTe by sublimation
Oswaldo Morales Morales[1], Hermes Adolfo Aquino, Claúdio Luiz Carvalho, Victor Ciro Solano Reynoso[2]; [1]Universidade Estadual Paulista "júlio de Mesquita Filho" - Campus Ilha Solteira, [2]Faculdade de Engenharia - Campus de Ilha Solteira

SP3-D144 - Voltage Oscillations During Galvanostatic Anodization of Magnesium
Gerhard Hans Knornschild, Luiz Roberto Broilo[1]; [1]Universidade Federal do Rio Grande do Sul

SP3-D145 - Influence the pH of the solution precursor hybrid films obtained on the tin coated steel
Érika Nishi Basho[1], Rafael Toshio Sakai, André Murilo de Souza, Fabiola Munhoz Di Loreto da Cruz, Assis Vicente Benedetti, Celso Valentim Santilli[2], Patrícia Hatsue Suegama; [1]Universidade Federal da Grande Dourados, [2]Universidade Estadual Paulista - Araraquara

SP3-D146 - Oxygen diffusion in oxide films grown on the AISI 304 austenitic stainless steel
Antonio Claret Soares Sabioni, Roberto Paulo Barbosa Ramos[1], Vincent Ji, François Jomard; [1]Universidade Federal de Ouro Preto

SP3-D147 - Influence of proton and UV irradiation on the formation of nanoporous polycarbonate surfaces
Raquel Silva Thomaz[1], Daniela Govoni Sotelo[1], Leonardo da Cunha Santos, Claudia Telles de Souza, Ricardo Meurer Papaléo; [1]Pontifícia Universidade Católica do Rio Grande do Sul

SP3-D148 - Analysis of the role of the oxygen diffusion on the oxidation mechanism of the AISI 439 ferritic stainless steel
Antonio Claret Soares Sabioni, Emiliane Advincula Malheiros[1], Vincent Ji, François Jomard; [1]Universidade Federal de Ouro Preto

SP3-D149 - Composite of TiO_2/Si/C evaluated as catalyst for effluent treatment
Rafael Mello Lattuada[1], João Henrique Zimnoch Dos Santos[1], Maria do Carmo Ruaro Peralba; [1]Universidade Federal do Rio Grande do Sul

SP3-D150 - Corrosion study of Titanium-Silicon (Ti-12Si) alloy
Rafaela Bonifacio Dantas[1], Ivan Ramires, Janice Kottwitz, Gleyce Tavares Ruel[1]; [1]Universidade Federal da Grande Dourados

SP3-D151 - Use of galvanic sludge for application on the technique of thermal spraying plasma
Gian Francesco Dos Reis Paganotto[1], Gabriela Bastos, Neftalí Lenin Villarreal Carreño, Margarete Regina

Freitas Gonçalves, Sergio da Silva Cava, Edilson Nunes Pollnow[2], Evandro Piva; [1]Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais, [2]Universidade Federal de Pelotas

SP3-D152 - Electrodeposition of ZnO thin film on copper substrate

Israel Freitas Bezerra[1], Rui Carlos Barros da Silva[1], Lutero Carmo de Lima; [1]Universidade Estadual do Ceará

SP3-D153 - Sodium diclofenac release using natural rubber latex biomembrane as support

Patricia Businaro Aielo[1], Regildo Márcio Gonçalves da Silva; [1]Unesp - Faculdade de Ciências E Letras de Assis

SP3-D154 - Influence of Localized Plasmon Resonance at riboflavin singlet oxygen generation

Luciana Santos Afonso de Melo, Sybele Saska, Karina Nigoghossian, Anderson S. L. Gomes, Younes Messaddeq, Sidney José Lima Ribeiro, Renato E. de Araujo

SP3-D155 - Study of Surface obtained by SMAT in CommerciallyPure Titanium

Ana Paula Vaz, Neide Kazue Kuromoto, Carlos J. de Mesquita Siqueira

SP3-D156 - Study of metal enhanced fluorescence on Water dispersion CdTe/CdS Quantum dots

Luciana Santos Afonso de Melo, Claudilene Ribeiro Chaves[1], Sybele Saska, Beate Saegesser Santos, Anderson S. L. Gomes, Adriana Fontes, Renato E. de Araujo; [1]Universidade Federal de Pernambuco

SP3-D157 - Study of the analytical efficiency of a hepatitis B virus genosensor on poly(4-aminophenol) matrix

Erick Guimarães França[1], Ana Cristina Honorato Castro[1], Ana Graci Brito-Madurro, João Marcos Madurro; [1]Universidade Federal de Uberlândia

SP3-D158 - Mechanical Properties of asphalt binders evaluated by Atomic Force Microscopy

Érico Rodrigues Dourado[1], Renata Antoun Simão, Leni Figuereiro Leite; [1]Universidade Federal do Rio de Janeiro

SP3-D159 - Study of the influence of MMA concentration on MPTS/MMA hybrid coating on tin coated steel in 3.5 wt.% NaCl solution.

Rafael Sakai[1], Érika Nishi Basho[1], Celso Valentim Santilli[2], Assis Vicente Benedetti, Patrícia Hatsue Suegama; [1]Fundação Universidade Federal da Grande Dourados, [2]Universidade Estadual Paulista - Araraquara

SP3-D160 - Surface Interaction of Gold Nanorods by Self-assembly Using Thiols Groups

Ábner Magalhães Nunes[1], Monique Gabriella Angelo da Silva[1], Carla Gonçalves Albuquerque, Mario Roberto Meneghetti, Simoni Margareti Plentz Meneghetti; [1]Universidade Federal de Alagoas

SP3-D161 - Mechanical properties of bioactive Ti obtained by anodic oxidation with posterior heat treatment using Ca/P-based solutions

Gabriel Goetten de Lima[1], Bruno Leandro Pereira, Gelson Biscaia de Souza, Carlos Mauricio Lepienski, Neide Kazue Kuromoto; [1]Universidade Federal do Paraná

SP3-D162 - Poly(m-phenylene isophthalamide) modified with iodoacetic acid

Irene Teresinha Santos Garcia[1], Lara Fernandes Loguercio, Michael Ramos Nunes, Eliana Weber de Menezes[2,3]; [1]Universidade Federal do Rio Grande do Sul, [2]Instituto de Química, [3]Institute Of Chemistry

SP3-D163 - Microstructural Characterization of annealed 4340 steel and treate d in salt bath

Carolina Reinaldi Koga, Cristina Carvalho Elisei

SP3-D164 - Analysis of Ti-25Ta alloy after biomimetic surface treatment

Mariana Gomes Moura Costa, Maria Cristina Rosifini Alves Rezende, Sandra Giacomin Schneider, Ana Paula Rosifini Alves Claro

SP3-D165 - Synthesis of aminated derivative of chitosan and their application in the removal of textile dyes from aqueous solutions.

Cintia Dos Santos Oliveira[1], Claudio Airoldi; [1]Universidade Estadual de Campinas

SP3-D166 - Analysis of Ti-7.5Mo experimental alloy surface after hydrothermal treatment

Rubia Eri Teruya[1], Maria Cristina Rosifini Alves Rezende, Sandra Giacomin Schneider, Ana Paula Rosifini Alves Claro; [1]Faculdade de Engenharia de Guaratingueta

SP3-D167 - Influence Of Current Of Welding In Constitutionals Diagrams, Microstructure And Microhardness.

Diogo Rocha de Castro[1], Arildomar Peixoto, Eduardo Magalhães Braga, Tárcio Santos Cabral, Everton Maciel Mendonça; [1]Universidade Federal do Pará

SP3-D168 - Evaluation Of Microhardness On Quenching And Tempering Sae 1045 Steel

Diogo Rocha de Castro[1], Everton Maciel Mendonça, Tárcio Santos Cabral, Eduardo Magalhães Braga, Aline Moreira; [1]Universidade Federal do Pará

SP3-D169 - Electrochemical and Morphological Analysis on the Titanium Surface Modified by Shot Blasting and Anodic Oxidation Processes

Eduardo Mioduski Szesz, Bruno Leandro Pereira, Claudia Marino, Paulo Cesar Soares, Neide Kazue Kuromoto

SP3-D170 - Structural analysis of plasma nitrated AISI 316 steel samples: synchrotron radiation and scanning electron microscopy

Marcelo de Almeida Carvalhal[1], Mariana Zicari Di Monte, Antonio Augusto Couto, Juan Alfredo Guevara Carrió, Jan Vatavuk; [1]Universidade Presbiteriana Mackenzie

SP3-D171 - Detection of phenolic compounds using PPID/Tyrosinase FET-based devices

Reginaldo Aparecido Ferreira, Nirton C. S. Vieira, André Brisolari[1], Francisco E.g. Guimaraes[2], Alvaro A A de Queiroz; [1]Instituto de Física de São Carlos, [2]Universidade de São Paulo - Instituto de Física de São Carlos

SP3-D172 - Surface analysis of Ti-30Ta alloy - an in vitro study

Maria Isabel Eboli Kimaid[1], Ana Lucia do Amaral Escada[2], João Paulo Barros Machado, Sandra Giacomin Schneider, Ana Paula Rosifini Alves Claro; [1]Faculdade de Engenharia de Guaratingueta, [2]Universidade Estadual Paulista - Guaratinguetá

SP3-D173 - Microstructure and microanalysis of biocorroded of AISI 4340 steel

Sabrina Moura Rovetta[1], Antonio Jorge Abdalla, Sônia Khouri, Walter Miyakawa; [1]Instituto de Estudos Avançados

SP3-D174 - Comparative testing of wear in the aluminum-silicon alloy in presence of diesel and biodiesel

Carlos Alexandre Dos Santos[1], Josué Verdi, Sérgio Barbosa Rahde, Ronaldo Silvestre da Costa; [1]Pontifícia Universidade Católica do Rio Grande do Sul

SP3-D175 - Oxidation resistance of a Nb-Si-B alloy coated by Fe, Cr, Siand B through Halide Activated Pack Cementation process

Renan de Freitas Gral, Douglas Vanderley Nanes Schimidt, Fernando Graber, Antonio Augusto Araujo Pinto Silva, Alvaro Guilherme Junqueira Santos, Carlos Angelo Nunes, Gilberto Carvalho Coelho

SP3-D176 - Hardening in low carbon steels through solar cookers concentration as alternative energy source

Salomão Sávio Batista, Luis Guilherme Meira de Souza, Janaína Karla de Medeiros Penha, Mozer de Meneses Mozer Meneses[1], Marcos Inácio da Rocha, Raimison Bezerra de Assis[1]; [1]Universidade Federal do Rio Grande do Norte

SP3-D177 - Si-DLC growth on metallic substrates by PECVD

Pedro Santana Teixeira, Divani Carvalho Barbosa, Evaldo José Corat, Vladimir José Trava-Airoldi, Márcio Celso Fredel, Patricia R P Barreto[1]; [1]Instituto Nacional de Pesquisas Espaciais

SYMPOSIUM E

Materials with Negative Properties / 8th International Workshop on Auxetic & Related Materials

Chairs

Bojan Marinkovic (PUC-Rio)
Antonio Gomes Souza Filho (UFC, Fortaleza)
Douglas Soares Galvão (UNICAMP, Campinas)
Angus Wilkinson (School of Chemistry and Biochemistry, Georgia Institute of Technology, USA)

ORAL PRESENTATIONS

* Invited Lecture

WEDNESDAY, SEPTEMBER 28TH

SESSION E6
09:30 - 10:30 - Room 13

09:30 - E6.1*

Thermal expansion, compressibility, phase transitions and local structure of materials with a "ReO3" structure

Angus Paul Wilkinson[1], Cody Morelock, Benjamin Greve, Leighanne Gallington, Karena Chapman, Peter Chupas; [1]Georgia Institute Of Technology

10:00 - E6.2*

Thermal Expansion Behavior of Porous Inorganic Materials: A Comparative Study of Small and Medium Pore Zeolites and Pharmacosiderites

Deu Soudagar Bhange

SESSION E7
11:00 - 12:30 - Room 13

11:00 - E7.1*

Constraint induced materials of negative Poisson's ratio

Krzysztof Witold Wojciechowski[1]; [1]Institute Of Molecular Physics, Polish Academy Of Sciences

11:30 - E7.2*

Negative poisson's ratio in a wide range of densities

Sócrates de Oliveira Dantas[1], Douglas Soares Galvão, Ray H. Baughman, Vitor Rafael Coluci; [1]Universidade Federal de Juiz de Fora

12:00 - E7.3*

Materials and structures with anomalous 'negative' thermo-mechanical behaviour

Joseph N. Grima

SESSION E8
15:00 - 16:00 - Room 13

15:00 - E8.1*

Effect of pressure on selected negative thermal expansion materials

Paulo de Tarso Cavalcante Freire, Waldeci Paraguassu[1], Antonio Gomes Souza Filho, Francisco Erivan Melo, Josue Mendes-Filho, Miroslaw Maczka, Jerzy Hanuza; [1]Universidade Federal do Pará

15:30 - E8.2

Synthesis and investigation of mixed molybdate compounds as low (positive and negative) thermal expansion materials

Kimberly J Miller[1], Mary Anne White, Bojan Marinkovic[2], Monica Ari; [1]Dalhousie University, [2]Pontifícia Universidade Católica do Rio de Janeiro

15:45 - E8.3

On the effect of negative Poisson\'s ratio in contact properties

Nizar Aouni[1], Peter Wriggers, Roger Sauer; [1]Institute Of Continuum Mechanics, Hannover Leibniz University

THURSDAY , SEPTEMBER 29TH

SESSION E9
09:30 - 10:30 - Room 13

09:30 - E9.1*

Far Infrared Negative Refraction and Slab Lensing Effects from Natural Crystals

Thomas Dumelow[1], Rízia Rodrigues da Silva, Rair Macêdo da Silva, Renato Estevâm da Silva, José Alzamir Pereira da Costa, Sara Braga Honorato, Alejandro Pedro Ayala; [1]Universidade do Estado do Rio Grande do Norte

10:00 - E9.2*

Negative thermal expansion materials and pressure-induced amorphization

Claudio Antonio Perottoni[1]; [1]Universidade de Caxias do Sul

POSTER PRESENTATIONS

WEDNESDAY, SEPTEMBER 28TH

SESSION SP3
16:00 - 18:00 - Exhibition Hall

SP3-E1 - Minimum optical path length at negative index of refraction.

Aguinaldo Robinson de Souza[1], Edvaldo Lima da Silva; [1]Universidade Estadual Paulista "júlio de Mesquita Filho"

SP3-E2 - Crystal Structure and Thermal Expansion of Monoclinic $Al_2Mo_3O_{12}$ from 10K to 450K

Bojan Marinkovic[1], Roberto R de Avillez[1], Monica Ari, Luciana Prates Prisco[1], Fernando Rizzo; [1]Pontifícia Universidade Católica do Rio de Janeiro

SP3-E3 - Low Temperature Synthesis of Nanometric Negative Thermal Expansion $Al_2Mo_3O_{12}$ Phase by the Sol-Gel Process Using PVA

Luciana Prates Prisco[1], Bojan Marinkovic[1], Fernando Rizzo; [1]Pontifícia Universidade Católica do Rio de Janeiro

SP3-E4 - Luminescence and phonon properties of nanocrystalline $Al_2(WO_4)^3:Cr^{3+}$ prepared by co-precipitation method

Miroslaw Robert Maczka, Velin Nikolov, Krzysztof Hermanowicz, Maciej Ptak, A Yordanova, Waldeci Paraguassu[1], Jerzy Hanuza; [1]Universidade Federal do Pará

SP3-E5 - Evidence of H_2O transparency to 2.45 GHz microwaves by a modification of its phase.

Julio Flemming[1]; [1]Universidade Estadual de Ponta Grossa

SP3-E6 - All-Angle Negative Refraction in Antiferromagnets at Terahertz Frequencies

Rair Macêdo da Silva, Renato Estevâm da Silva, Thomas Dumelow[1], José Alzamir Pereira da Costa; [1]Universidade do Estado do Rio Grande do Norte

SP3-E7 - Auxetic Properties of Carbon Nanotube Sheets

Vitor Rafael Coluci, Lee J. Hall, Mikhail E. Kozlov, Mei Zhang, Sócrates de Oliveira Dantas[1], Douglas Soares Galvão, Ray H. Baughman; [1]Universidade Federal de Juiz de Fora

SP3-E8 - Auxetic to non-auxetic transition in

porous carbon networks
Pedro Alves Autreto, Vitor R Coluci, Douglas Soares Galvão
SP3-E9 - Modelling of liquid crystalline polymers with anomalous mechanical properties
Joseph N. Grima, Anselm C Griffin
SP3-E10 - On the auxeticity of zeolites and aluminophosphates
Joseph N. Grima
SP3-E11 - Transmission Spectra for TE and TM Waves in Peel's Photonic Multilayers with Negative Refractive Index
Carlos Humberto Oliveira Costa, Edi Rozembergh Brasileiro da Silva Brandão[1], Manoel Silva de Vasconcelos, Eudenilson Lins de Albuquerque; [1]Universidade Federal do Rio Grande do Norte

SYMPOSIUM F

Nanostructured Functional Materials for Advanced Energy and Environmental Applications

Chairs

Harry L. Tuller (Department of Materials Science and Engineering, Massachusetts Institute of Technology, USA)
Reginaldo Muccillo (Center of Science and Technology of Materials, Energy and Nuclear Research Institute S. Paulo)

ORAL PRESENTATIONS

* Invited Lecture

MONDAY , SEPTEMBER 26TH

SESSION F1
09:30 - 10:30 - Room 02

09:30 - F1.1*
Towards the next generation of solid oxide fuel cells basedon chemically stable proton conducting oxides
Enrico Traversa
10:00 - F1.2
Application of electrophoretic deposition in preparation of $LaMnO_3$ based cathode-supported solid oxide fuel cells
Goran Brankovic[1], Ivana Krkljus, Zorica Brankovic; [1]Instituto de Quimica Unesp
10:15 - F1.3
Study of the cathodic reaction of LSCF films for IT-SOFCs
Daniel Marinha[1], Elisabeth Djurado, Laurent Dessemond; [1]Universidade Federal de Santa Catarina

SESSION F2
11:00 - 12:30 - Room 02

11:00 - F2.1*
Recent Advances to Prepare Hematite Ceramics Thin Films for Photoelectrochemical Water Splitting
Edson Roberto Leite
11:30 - F2.2
Development of Hybrid CGO/YSZ Electrolyte Materials for Intermediate Temperature Solid Oxide Fuel Cells
Renato P. Camata, Alex W. Skinner, Eric H. Remington, Daniel Zanetti de Florio, Murilo Nicolau
11:45 - F2.3
Electrical responses of Nanocrystalline Rare Earth Oxides synthesized by Composite Mediated Hydrothermal Method
Ali Abdullah, Muhammad Anis-Ur -Rehman
12:00 - F2.4
XRD and TEM investigation of disorder in irradiated and unirradiated quartz nanoparticles
Igor Alessandro Silva Carvalho, Eduardo Perini Muniz[1], Fernando Soares Lameiras, Jose Roberto Branco; [1]Universidade Federal do Espírito Santo
12:15 - F2.5
Ion beam synthesis of PbSe nanocrystals in SOI substrates
Zacarias Eduardo Fabrim[1], F. Kremer, F. P. Luce, Dario Ferreira Sanchez, Paulo F. P. Fichtner[1]; [1]Universidade Federal do Rio Grande do Sul

SESSION F3
15:00 - 16:00 - Room 02

15:00 - F3.1
Nano Structured Material Prepared by Laser Ablation at the solid-liquid interface
Walter Mendes de Azevedo, Diego L da Cunha, Eronides Felisberto da Silva Jr, José Albino Aguiar
15:15 - F3.2
Synthesis and optical characterization of water-soluble Mn-doped ZnS and ZnS:Mn/ZnS core-shell semiconductor nanocrystals

John Fritzgerald Cury[1], Lívia Cristina de Souza Viol, Marco Antonio Schiavon[1]; [1]Universidade Federal de São João Del Rei

15:30 - F3.3

Investigation of Transport Properties of Hydrogen and Sodium Titanate Nanotubes

Diego Cb Alves, Brillian A Fernandes, Fabio C Fonseca, Andre S Ferlauto[1]; [1]Universidade Federal de Minas Gerais

15:45 - F3.4

Electrochemistry assisted laser ablation in liquid : A general strategy for fabricating polyoxometalate nanostructures

G.w. Yang[1], P. Liu, Y. Liang, X.z. Lin; [1]Sun Yat-Sen University

TUESDAY , SEPTEMBER 27TH

SESSION F4
09:30 - 10:30 - Room 02

09:30 - F4.1*

In-situ study of the crystal growth of a catalyst during its synthesis under hydrothermal conditionsγ

Rose-Noelle Vannier

10:00 - F4.2

Titanate nanobelts-metallic nanoparticles nanocomposites for photo-catalytic applications

Ines Bracko[1], Manca Logar, BošTjan Jančar, Danilo Suvorov; [1]Jozef Stefan Institute

10:15 - F4.3

Photocatalytic conversion of NO_x by TiO_2-based nanomaterials and the effect of Anatase crystal morphology

Bojan Marinkovic[1], Marco Antonio Santos de Abreu, Edisson Morgado Jr., Paula Mendes Jardim; [1]Pontifícia Universidade Católica do Rio de Janeiro

SESSION F5
11:00 - 12:30 - Room 02

11:00 - F5.1*

Challenges of PEM Fuel Cell Technology and the Brazilian Fuel Cell Program

Marcelo Linardi

11:30 - F5.2

Morphological Study of Nafion based Composites by Small Angle X-ray Scattering and Dielectric Spectroscopy

Bruno Ribeiro Matos[1], Alexandre José de Castro Lanfredi, Elisabete Inácio Santiago, Marcelo Linardi, José Fernando Queiruga Rey, Fabio C Fonseca; [1]Instituto de Pesquisas Energéticas E Nucleares

11:45 - F5.3

Carbon membrane for hydrogen separation

Joel Santana do Nascimento[1], Cristiano Piacsek Borges, Vera Maria Martins Salim; [1]Universidade Federal do Rio de Janeiro

12:00 - F5.4

Anodic electrodeposition of Na^+ intercalated V_2O_5 nanofibers and their evolution to high crystalline $Na_{0.33}V_2O_5$ nanorods

Douglas Langie da Silva, Alexandre da Cas Viegas, Jose Javier Saez Acuña, Andre Avelino Pasa

12:15 - F5.5

Synthesis of biocompatible colloidal gold nanoparticles by sputtering deposition onto castor oil

Sergio Ribeiro Teixeira[1], Jairton Dupont, Pedro Migowski, Adriano Friedrich Feil[1], Heberton Wender; [1]Universidade Federal do Rio Grande do Sul

WEDNESDAY, SEPTEMBER 28TH

SESSION F6
09:30 - 10:30 - Room 02

09:30 - F6.1*

Hollow and Porous Metal-Oxide Nanostructure Synthesized by Polymeric Templating Route, Application Toward Chemical Sensors

Il-Doo Kim

10:00 - F6.2

Gas sensing properties of $SrTi_{1-x}Fe_xO_3$ thin films

Valmor Roberto Mastelaro[1], Sergio C Zilio, Khalifa Aguir, Jacques Guerin, François Flory, Luís Fernando da Silva[2], Pedro Ivo Batistel Galiote Brossi Pelissari[2]; [1]Universidade de São Paulo - Eesc/ifsc/iqsc, [2]Physics Institute Of São Carlos

10:15 - F6.3

Nanostructured Tungsten Trioxide thin films by Aqueous Chemical Growth: Structural, Optical and hydrogen sensing characteristics

Bertrand Tumbain Sone, Malik Maaza

SESSION F7
11:00 - 12:30 - Room 02

11:00 - F7.1*

Quantum-confined metal oxide rods & dots nanostructures

L. Vayssieres

11:30 - F7.2

Unveiling the early stages of formation and growth of Ge nanoparticles with in situ, time-resolved Dispersive X-ray Absorption Spectroscopy (DXAS)
Antonio Augusto Malfatti Gasperini, Flávio Garcia, Angelo Malachias, Gustavo de Medeiros Azevedo[1]; [1]Universidade Federal do Rio Grande do Sul

11:45 - F7.3
Lithium Migration and Nanostructures of TiO_2 polymorphs
Thiago Peixoto, Stephen Charles Parker, Mario Ernesto Valerio[1], Corinne Arrouvel[1]; [1]Universidade Federal de Sergipe

12:00 - F7.4
Study of the evolution of structural and chemical properties of GeSi nanoparticles by combined synchrotron radiation techniques
Angelo Malachias[1], Antonio Augusto Malfati Gasperini, Angelo Gobbi, Gustavo de Medeiros Azevedo[2]; [1]Universidade Federal de Minas Gerais, [2]Universidade Federal do Rio Grande do Sul

12:15 - F7.5
Carbon nanotubes - metal porphyrin supramolecular complexes for the oxygen reduction reaction: Density functional calculations
Walter Orellana[1]; [1]Universidad Andrés Bello

SESSION F8
15:00 - 16:00 - Room 02

15:00 - F8.1
Titanate nanotube catalyst activated by hydrogen peroxide: structural modification, defect formation and catalytic properties
Klaus Krambrock[1], Eudes Lorençon, Frederico Dias Brandão, Renata Figueredo Martins, Mauricio Veloso Brant Pinheiro, Luiz Orlando Ladeira; [1]Universidade Federal de Minas Gerais

15:15 - F8.2
Synthesis, characterization and photocatalytic activity of composites of TiO_2 and Zinc Phthalocyanine
Paulo Dos Santos Batista[1], Maria Rita de Cássia Santos, Danilo Rodrigues de Souza, Danielle Fernanda de Melo Oliveira, Marcela Dias França, Paulo Souza Muller Jr, Antonio Eduardo da Hora Machado; [1]Universidade Federal de Goiás

15:30 - F8.3
Reduction of NO_2 in functionalized MWCNT for nanostructured biodevices
Elaine Cavalcanti Rodrigues Vaz[1], Marcelo Navarro, Petrus D'amorim Santa Cruz Oliveira; [1]Universidade Federal de Pernambuco

15:45 - F8.4
Antimicrobial activity of Nano ZnO and Pd doped Nano ZnO against fungi, Aspergillus and Candida
Mohammad Akram Randhawa, Alhosain Jaber Alzahrani, Mohammad Ashraf Gondal

POSTER PRESENTATIONS

MONDAY , SEPTEMBER 26TH

SESSION SP1
16:00 - 18:00 - Exhibition Hall

SP1-F1 - Nanostructural and optical properties of solar absorber surfaces type nickel-zinc deposited by E-beam evaporation and electroplating
Ricardo Luiz Perez Teixeira, Daniel Correa Guamá, Renata Antoun Simão

SP1-F2 - $La_{0.7}Sr_{0.3}MnO_3$-coated STS444 alloy by dip-coating process for metal supported SOFC
Leandro da Conceição[1], Laurent Dessemond, Elisabeth Djurado, Mariana M.v.m. Souza; [1]Universidade Federal do Rio de Janeiro

SP1-F3 - Enhanced CO tolerance in PEM fuel cell using Pt - dopped ceria electrocatalyst system.
Eliana Maria Arico, Marcelo Linardi, Julio Nardenha

SP1-F4 - $Ce_{0.97}Cu_{0.03}O_2$ nanocatalysts synthesized via microwave-assisted hydrothermal method: characterization and catalytic efficiency
Vinícius Dantas Araújo[1], Waldir Avansi, Heloysa M C Andrade, Elson Longo, Maria Ines Basso Bernardi; [1]Universidade de São Paulo

SP1-F5 - Sintering $Ce_{1-x}Eu_xO_{2-(x/2)}$ electrolytes for Intermediate Temperature Solid Oxide Fuel Cells
Ana Karolina Bezerra Souza, Antonio Eduardo Martinelli[1], Amanda Lucena de Medeiros, Daniel Araujo de Macedo, Juliana Pivotto Nicodemo, Dulce Maria de Araujo Melo, Rubens Maribondo do Nascimento; [1]Universidade Federal do Rio Grande do Norte

SP1-F6 - Influence of silver on microstructure and photocatalytic activity of nanostructured flame-sprayed zinc oxide
Rafael Hubert Silva[1], Rafael Mello Trommer, Carlos Pérez Bergmann; [1]Universidade Federal do Rio Grande do Sul

SP1-F7 - Oxidation of Ethanol using Nanostructured Materials Based on Pt, Sn and Ir, supported on High Surface Area Carbon
Beatriz Anea[1], Júlio César Martins da Silva, Rodrigo Fernando Brambila de Souza[2], Mauro Coelho Dos

Santos; [1]Fundação Universidade Federal do Abc, [2]Universidade Federal do Abc

SP1-F8 - Electrolyte and anode properties of lanthanum aluminate-based oxides for solid oxide fuel cells

Taisa Eva Fuziger Gutierres[1], José Geraldo de Melo Furtado, Gisele Ezechiello da Silva, Rodrigo Dias, Roberto Furtado, Eduardo Torres Serra; [1]Electric Power Research Center

SP1-F9 - Development and characterization of solid oxide fuel cell combined electrode-electrolyte membrane ceramic

Juliana Mesquita de Andrade[1], José Geraldo de Melo Furtado, Rodrigo Dias, Taisa Eva Fuziger Gutierres[1], Roberto Furtado, Eduardo Torres Serra; [1]Electric Power Research Center

SP1-F10 - Development and characterization of anode-electrolyte bi-layers for ethanol powered solid oxide fuel cells

José Geraldo de Melo Furtado[1], Roberto Furtado, Taisa Eva Fuziger Gutierres[1], Gisele Ezechiello da Silva, Eduardo Torres Serra; [1]Electric Power Research Center

SP1-F11 - Optical and structural properties of silver nanoparticles in borosilicate glasses

Zélia Maria da Costa Ludwig[1], Lucélia Celes Souza, Júlia Maria Giehl, Delvany Gomes de Castro[1], Walter Maigon Pontuschka, Luiz Carlos Barbosa, Valdemir Ludwig; [1]Universidade Federal de Juiz de Fora

SP1-F12 - Effect of Bi and Na on the electrical conductivity of chemically prepared gadolinia-doped ceria

Eliana Navarro Dos Santos Muccillo[1], Ana Lucia Horovistiz; [1]Energy And Nuclear Research Institute

SP1-F13 - Improving the nanostructured anode/electrolyte interface for multi-fuel powered solid oxide fuel cells

José Geraldo de Melo Furtado[1], Roberto Furtado, Taisa Eva Fuziger Gutierres[1], Gisele Ezechiello da Silva, Eduardo Torres Serra; [1]Electric Power Research Center

SP1-F14 - Heterogeneous photocatalysis of rhodamine B: influence of surfactant

Helinando Pequeno de Oliveira, José Joatan Rodrigues Jr., Elisângela Gomes de Lima Oliveira

SP1-F15 - Nanocrystalline Hydrous Zirconia from Zirconium Tungstate

Luciana Muller Somavilla[1], Janete Eunice Zorzi, Giovanna Machado, Gustavo Roberto Ramos, Cintia Gomes de Amorim, Claudio Antonio Perottoni[1]; [1]Universidade de Caxias do Sul

SP1-F16 - Nanocomposites of PPy-TiO_2: synthesis and characterization

Helinando Pequeno de Oliveira, Ariadne Helena P. de Oliveira

SP1-F17 - Synthesis of vanadium nitrides (VN) by a low temperature route: promising materials as the substitute for the Pt metal group

Eugenio Furtado Souza[1], Carlos Alberto Chagas Jr., Teodorico Castro Ramalho, Ricardo Bicca Alencastro; [1]Universidade Federal do Rio de Janeiro

SP1-F18 - Photocatalytic depolluting performance of novel commercial TiO2 nanopowders

Bojan Marinkovic[1], Juliana Viol, Yann Fredholm, Mariana Souza Fortes, Roberto Pires Silveira, Tatiane Militão; [1]Pontifícia Universidade Católica do Rio de Janeiro

SP1-F19 - Effect of the microwave hydrothermal synthesis on the structural, morphological properties of perovksite bismuth ferrite nanoparticle

Glenda Biasotto[1], Alexandre Z. Simões, Cesar Foschini, Maria Aparecida Zaghete[2], Elson Longo, José Arana Varela[3]; [1]Universidade Estadual Paulista "júlio de Mesquita Filho", [2]Instituto de Quimica de Araraquara-Unesp, [3]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP1-F20 - Nanocrystalline ZnO thin films prepared by different chemical techniques

Ariadne Cristina Catto[1], Luís Fernando da Silva[2], Maria Ines Basso Bernardi, Paulo Noronha Lisboa-Flho; [1]Universidade Estadual Paulista "júlio de Mesquita Filho" - Bauru, [2]Physics Institute Of São Carlos

SP1-F21 - Pressure-induced amorphization in $Dy_2Mo_4O_{15}$

Waldeci Paraguassu, Miroslaw Robert Maczka, Antonio Gomes Souza Filho, Paulo de Tarso Cavalcante Freire, J Mendes Filho, Jerzy Hanuza

SP1-F22 - Co/Mn-doped ZnO for photocatalytic degradation of Rhodamine B (RhB).

Georgia Virginia da Fonseca Santos, Marcella Auxiliadora de Melo Lucena[1], Caue Ribeiro de Oliveira, Tania Regina Giraldi[2], Ingrid Tavora Weber; [1]Universidade Federal de Pernambuco, [2]Universidade Federal de Alfenas

SP1-F23 - Oxidation of Small Organics Molecules Mixtures on $PtCeO_2$/C

Rodrigo Fernando Brambila de Souza[1], Júlio César Martins da Silva, Melina D'villa-Silva, Fernando Carmona Simões, Almir Oliveira Neto, Mauro C Santos; [1]Universidade Federal do Abc

SP1-F24 - Synthesis Studies of Mesoporous ZrO_2 Materials
Rebeca Bacani[1], Marcia Carvalho de Abreu Fantini[2], Tereza Silva Martins; [1]Universidade de São Paulo, [2]Instituto de Física da Universidade de São Paulo

SP1-F25 - Synthesis of Palladium Nanoparticles
Everton Carlos Gomes[1], Maria Auxiliadora Silva de Oliveira; [1]Instituto Tecnológico de Aeronáutica

SP1-F26 - Metal-Organic Framework for Ibuprofen Adsorption in Wastewater Treatment
Amanda Lima Barros[1], Kaline Amaral Wanderley, Severino Alves Junior, Gilberto Fernandes Sá; [1]Universidade Federal de Pernambuco

SP1-F27 - Synthesis and application of vanadium nanostructured material for electrosynthesis of hydrogen peroxide
Andre Moraes[1], Mônica Helena Marcon Teixeira Assumpção, Rodrigo Fernando Brambila de Souza[1], Robson Silva Rocha, Marcelo Luiz Calegaro, Marcos Roberto de Vasconcelos Lanza, Mauro C Santos; [1]Universidade Federal do Abc

SP1-F28 - Synthesis and characterization of Ni/C and NiFe/C as electro-catalysts for glycerol oxidation in alkaline media
Vanessa Luciane Oliveira[1], Germano Tremiliosi-Filho; [1]Universidade de São Paulo - Instituto de Química de São Carlos

SP1-F29 - Spectroscopic properties of erbium doped soda lime silica glasses
Zélia Maria da Costa Ludwig[1], Aruã Menezes de Aguiar, Júlia Maria Giehl, Walter Maigon Pontuschka, Maria José Valenzuella Bell, Aruã Menezes de Aguiar, Victor Hugo de Oliveira; [1]Universidade Federal de Juiz de Fora

SP1-F30 - Effect of Zirconia Content on Nanostructure and Properties of Sol-Gel derived Proton-Conducting Zirconia-SPEEK Hybrid Membranes for Direct Alcohol Fuel Cells.
Florêncio Gomes de Ramos Filho[1], Karim Dahmouche, Ailton de Souza Gomes, Izamir Rezende Junior, Carla Akimi Kawaguti; [1]Universidade Estadual da Zona Oeste

SP1-F31 - Hydrothermal synthesis of Ti oxides - SnO_2 in nanometric sizes applied to the photodegradation of rhodamine B
Henrique Aparecido de Jesus Loures Mourão, Waldir Avansi Junior, Carolina Moreira, Caue Ribeiro de Oliveira

SP1-F32 - Metal doped carbon nanotube interacting with vitamin C: ab initio study
Alisson Ronieri Cadore[1], Vivian Machado de Menezes[2], Solange Binotto Fagan, Jussane Rossato, Ivana Zanella da Silva[2]; [1]Centro Universitário Franciscano, [2]Universidade Federal de Santa Maria

SP1-F33 - Alkali Hydrothermal Synthesis of Nanostructured Titanates from Brazilian Natural Ilmenite Sand
Antonio Mario Leal Martins Costa[1], Bojan Marinkovic[1], Sidnei Paciornik[1]; [1]Pontifícia Universidade Católica do Rio de Janeiro

SP1-F34 - Raman microscopy investigation of structural disorder of progressive milled γ-irradiated quartz nanoparticles
Igor Alessandro Silva Carvalho, Eduardo Perini Muniz[1], Jose Roberto Branco; [1]Universidade Federal do Espírito Santo

SP1-F35 - Obtaining of nanostructured carbon materials from biomass for adsorption of antibiotic.
Juliana Schultz[1], Sidnei Antonio Pianaro, Gino Capobianco; [1]Universidade Estadual de Ponta Grossa

SP1-F36 - Nanocristalization effect on optical properties of Eu^{+3}-doped lead borosilicate glasses
Sidney Alves Lourenço, Noelio Oliveira Dantas, Anielle Christine Almeida Silva, Acácio A Andrade, Edson Laureto

SP1-F37 - Evaluation of the Influence of Different Nanoparticle Deposition Methods on Ceramic Filtering Structures for Low Cost and Low Pressure drop Filters
Guillermo Van Erven Cabala[1], Ilder Bastos Dos Santos, Wilson Acchar; [1]Instituto Federal de Educação, Ciência E Tecnologia da Bahia

SP1-F38 - Thermoxidation kinetic studies of ferritic stainless steels for applications in fuel cells interconnectors
Eduardo Etzberger Feistauer[1], Elisiane Santana Chaves, Helder Prado Santos[1], Matias Angelis Korb, Celia de Fraga Malfatti, Ledjane Silva Barreto; [1]Universidade Federal de Sergipe

SP1-F39 - Application of carbon sheets/clay nanocomposites to remove organic contaminants
Gabriela Borin Barin[1], Thalita Santos Bispo[1], Neftalí Lenin Villarreal Carreño, Iara de Fátima Gimenez, Ledjane Silva Barreto; [1]Universidade Federal de Sergipe

SP1-F40 - Conducting Polymer-Based Nanocomposites
Hugo Gajardoni de Lemos[1], Alan Gustavo da Costa Felix, Alessandra Alves Correa, Everaldo Carlos Venancio; [1]Universidade Federal do Abc

SP1-F41 - Photo-reactive reverse micelles for easy and clean synthesis of nanoparticles
Gemima Barros Correia[1,2], Rodrigo José de Oliveira, André Galembeck, Cid Bartolomeu de Araújo; [1]Universidade Federal de Pernambuco, [2]Pós-Graduação Em Ciência de Materiais

SP1-F42 - Microwave-hydrothermal synthesis of ZnO nanorods: Structural and luminescence studies
Ana Paula de Moura[1], Renata Cristina de Lima, Maxímo Sui Li Li, Elson Longo, José Arana Varela[2]; [1]Instituto de Quimica de Araraquara-Unesp, [2]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP1-F43 - Evaluation of polymeric nanocomposites of layer siliates and polyethylene blends
Camila Mariana de Oliveira Wolski[1], Jessica Kimie Akishino, Mário Cabussu, Kleber Franke Portella, Dailton Pedreira Cerqueira, Paulo Cesar Inone, Marilda Munaro; [1]Instituto de Tecnologia Para O Desenvolvimento

SP1-F44 - PVA membranes modified with silica for use in DMFC
Liz Contino Vianna de Aguiar[1], Raquel Duarte de Almeida, Florêncio Gomes de Ramos Filho[2], Ailton de Souza Gomes; [1]Instituto de Macromoléculas Professora Eloisa Mano, [2]Universidade Estadual da Zona Oeste

SP1-F45 - Corrosion protection of AA1050 by surface treatment with ceramic zirconium nanoparticles
Wagner Izaltino Alves Santos, Jesualdo Luiz Rossi[1], Isolda Costa[1]; [1]Instituto de Pesquisas Energéticas E Nucleares

SP1-F46 - HTPC electrolyte films deposited by RF-sputtering technique
Milan Zunic[1], Cesar Renato Foschini[1,2], Mario Cilense[3], Elson Longo, José Arana Varela[4]; [1]Instituto de Química, [2]Instituto de Quimica Araraquara - Unesp, [3]Universidade Estadual Paulista "júlio de Mesquita Filho", [4]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP1-F47 - Synthesis of Nanostructured $Ce_2(WO_4)_3$ and Evaluation of its Catalytic Activity for Methane Conversion
Tiago Renovato[1,2], André L.l Moriyama, Thalles Senna Diógenes, Carlson Pereira Souza, Djalma Ribeiro Silva, Christine Leroux, Madjid Arab; [1]Fundação Norte Riograndense de Pesquisa E Cultura Cnpj:08.469.280/0001 93, [2]Universidade Federal do Rio Grande do Norte

SP1-F48 - Thermal and dc-ionic conductivity properties of a PEM based on PVAL+H_3PO_2 +Nafion®
Maria Elena Fernández[1], Julian Eduardo Castillo, Carlos Felipe Bedoya, Jesus Evelio Diosa, Paulo Roberto Bueno, Elsa Maria Materon, Rubén Antonio Vargas; [1]Universidad Del Valle

SP1-F49 - Effect of High Heat Treatment Temperature on Photocurrent Density of Hematite Nanorods Thin Films
Bruno Henrique Ramos de Lima[1], Edson Roberto Leite, Elson Longo; [1]Universidade Federal de São Carlos

SP1-F50 - HgI_2 nanometer size nuclei obtained by the suspension method
María Eugenia Pérez Barthaburu[1], Laura Fornaro; [1]Universidad de La República

SP1-F51 - Hydrothermal synthesis of BiI_3 nanoparticles
Ivana Aguiar[1], Heinkel Bentos Pereira, Laura Fornaro; [1]Universidad de La República

SP1-F52 - Production of Nanoparticles by Spray Drying Technology
Adriano Marim Oliveira, Natália Neto Pereira Cerize, Kleber Lanigra Guimarães, João Guilherme Rocha Poco

SP1-F53 - Immobilization of cobalt(II) tetracarboxyphthalocyanine on aminofunctionalized kaolinite
Tiago Honorato da Silva, Anderson Orzari Ribeiro[1], Emerson Henrique de Faria, Katia Jorge Ciuffi[2], Eduardo José Nassar, Marcio Luis Silva, Paulo Sérgio Calefi; [1]Universidade Federal do Abc, [2]Universidade de Franca

SP1-F54 - Effect of ZnO in SnO_2-based oxides obtained using hydrothermal microwave synthesis
Danielle Berger, Evaldo Toniolo Kubaski, José Arana Varela[1], Sergio Mazurek Tebcherani; [1]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP1-F55 - Proton conductivity relaxation in the ADP-KDP-TiO2 nanocomposites
Jesús Roberto Castillo Chamorro[1], Manuel Chacón, Rubén Antonio Vargas, Paulo Roberto Bueno; [1]Universidad Del Valle

SP1-F56 - Obtainment of activated carbon fibers from biomass
Luiz Cezar Lima[1], Sergio Rodrigues Luz, Gino Capobianco, Sidnei Antonio Pianaro, Carlos Fernandes Granado; [1]Universidade Estadual de Ponta Grossa

SP1-F57 - Study and application of Carbon

nanotubes
Diogo Alexandre Hahn[1], Eduardo Luis Schneider; [1]Universidade Feevale

TUESDAY , SEPTEMBER 27TH
SESSION SP2
14:00 - 16:00 - Exhibition Hall

SP2-F58 - Influence of hydrothermal treatment conditions on the activity of Hydrotalcites Mg,Al-CO_3 in transesterification reaction of soybean oil.
Natasha Figueiredo Coral, Patricia Magalhães Pereira[1], Elizabeth Soares Rodrigues, José Roberto Zamian, Geraldo Narciso Filho, Carlos Emmerson Costa; [1]Universidade Federal do Pará

SP2-F59 - The effect of kaolinite on the kinetics of styrene polymerization in emulsion
José Costa Macedo[1], Liliane M.f. Lona; [1]Universidade Estadual de Campinas

SP2-F60 - Seeds effect on the ceramic varistor SnO_2- based system
Mario Cilense[1], Miguel Angel Ramírez Gil, Cesar Renato Foschini[2,3], Anderson André Felix, Elson Longo, José Arana Varela[4]; [1]Universidade Estadual Paulista "júlio de Mesquita Filho", [2]Instituto de Química, [3]Instituto de Quimica Araraquara - Unesp, [4]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP2-F61 - Study of the behavior of bulk carbon nanotubes at high pressure
Pâmela Andréa Mantey Dos Santos[1], Ivana Zanella da Silva[2], Solange Binotto Fagan, Tania Maria Haas Costa[2], Marcia Russman Gallas; [1]Universidade Federal do Rio Grande do Sul, [2]Centro Universitário Franciscano

SP2-F62 - Effects of dimerization of anionic surfactants on the enhancement of fluorescence of rhodamine B and rhodamine 6G
Ericleiton Rodrigues Macedo[1,2], Helinando Pequeno de Oliveira; [1]Fundação Universidade Federal do Vale do São Francisco, [2]Instituto Federal de Educação, Ciência E Tecnologia do Sertão Pernambucano

SP2-F63 - Use of gold nanoparticles dispersed on an organic matrix of castor oil for SERS application
Lais Henrique Pacheco[1], Sara Figueredo de A. Morais, Mario Roberto Meneghetti, Simoni Margareti Plentz Meneghetti; [1]Universidade Federal de Alagoas

SP2-F64 - Study of platinum nanoparticles obtention by low-pressure plasma processes for in fuel cell application.
Adir Jose Moreira[1], Nelson Ordonez, Terezinha de Jesus Andreoli Pinto, Ronaldo Domingues Mansano; [1]Escola Politécnica da Universidade de São Paulo

SP2-F65 - Thermomechanical Behavior of clay/epoxy nanocomposites
Artur Soares Cavalcanti Leal, Zoroastro Torres Vilar, Carlos José de Araújo, Suédina Maria Lima Silva

SP2-F66 - Synthesis of hexagonal close-packed nanocrystalline nickel by the thermal treatment of face-centered cubic nickel nanoparticles
Eduardo Guilherme Civinidi Neiva[1], Aldo J.g. Zarbin[1]; [1]Universidade Federal do Paraná

SP2-F67 - Nickel nanoparticles as a glycerol sensor in alkaline medium
Eduardo Guilherme Civinidi Neiva[1], Aldo J.g. Zarbin[1], Luiz Humberto Marcolino Junior, Márcio Fernando Bergamini; [1]Universidade Federal do Paraná

SP2-F68 - CdTe Quantum Dots Grown by Seed-Assisted Microwave Method
Raquel Milani[1,2], Frederico Duarte Menezes, Severino Alves Junior, María de La Mata, Jordi Arbiol, Jose Albino Aguiar, Giovanna Machado; [1]Universidade Federal de Pernambuco, [2]Centro de Tecnologias Estratégicas do Nordeste

SP2-F69 - Characterization by DSC of polyamide66/bentonite clay nanocomposites membranes
Keila Machado de Medeiros, Dayanne Diniz de Souza Morais[1], Diego de Farias Lima, Edcleide Maria Araújo, Hélio Lucena Lira; [1]Federal University Of Campina Grande

SP2-F70 - Characterization of organophilic clay to prepare polymeric nanocomposite membranes
Paula Simone Soares de Medeiros, Elieber Barros Bezerra, Keila Machado de Medeiros, Edcleide Maria Araújo, Hélio Lucena Lira

SP2-F71 - Electronic and structural properties of metal doped carbon nanotubes
Alisson Ronieri Cadore[1], Solange Binotto Fagan, Vivian Machado de Menezes[2], Jussane Rossato, Ivana Zanella da Silva[2]; [1]Centro Universitário Franciscano, [2]Universidade Federal de Santa Maria

SP2-F72 - Influence of environment and fuel ratio on urea combustion synthesis of La0,9Sr0,1MnO3 powders
Diego Pereira Tarragó[1], Celia de Fraga Malfatti, Vânia Caldas de Sousa[1]; [1]Universidade Federal do Rio Grande do Sul

SP2-F73 - Poly(vinylidene fluoride) - PVDF, fibrous films obtained by Solution Blow Spinning
Luiz Francisco Malmonge[1], Lincon Zadorosny, Eliton

Souto Medeiros[2], José Antonio Malmonge; [1]Universidade Estadual Paulista "júlio de Mesquita Filho" - Campus Ilha Solteira, [2]Universidade Federal da Paraiba

SP2-F74 - Cyclic transformation in the morphology of titanate crystals associated to order-disorder degree of cluster self-assembled

Agda Eunice Souza[1], Gleyson Tadeu Almeida Santos, Paulo Eduardo Pedroso de Morais Filho[2], Mário Lúcio Moreira, Diogo Paschoaline Volanti, Silvio Rainho Teixeira[2], Elson Longo; [1]Fct-Unesp Campus de Presidente Prudente, [2]Universidade Estadual Paulista Júlio de Mesquita Filho

SP2-F75 - Characterization of Strontium Titanate Synthesized by Microwave-Assisted Hydrothermal Method

Paulo Eduardo Pedroso de Morais Filho[1], Agda Eunice Souza[2], Gleyson Tadeu Almeida Santos, Silvio Rainho Teixeira[2], Luis Amaral, Ana Maria Rocha Senos, Elson Longo; [1]Universidade Estadual Paulista Júlio de Mesquita Filho, [2]Fct-Unesp Campus de Presidente Prudente

SP2-F76 - Microwave-Assisted Hydrothermal Method and Characterization of the Manganese Oxide Hausmannite-type

Lycio Shinji Watanabe[1], Agda Eunice Souza[2], Celso Xavier Cardoso, Angela Sanches Tardivo Delben, Silvio Rainho Teixeira[2], Elson Longo; [1]Universidade Estadual Paulista "júlio de Mesquita Filho", [2]Fct-Unesp Campus de Presidente Prudente

SP2-F77 - $Ba_{1-x}Ca_xTiO_3$ perovskite: limit for phase crystallization and anomalous behavior for samples with x = 0.75

Agda Eunice Souza[1], Gleyson Tadeu Almeida Santos, Paulo Eduardo Pedroso de Morais Filho[2], Gilberto Campos Fuzari Junior, Walter Katsumi Sakamoto, Silvio Rainho Teixeira[2], Elson Longo; [1]Fct-Unesp Campus de Presidente Prudente, [2]Universidade Estadual Paulista Júlio de Mesquita Filho

SP2-F78 - Development of filters for clean water through the use of carbon nanotubes embedded in porous matrices.

Mariane Cristina Schnitzler[1], Daniel Aparecido da Silva Rodrigues, Patricia Alejandra Dutenhefner, Líniker Fabrício Souza; [1]Universidade Federal de Ouro Preto

SP2-F79 - Electrical properties of polyphosphate/polyaniline hybrid materials

Euzebio Skovroinski[1], Rodrigo José de Oliveira, Aldo J.g. Zarbin[2], André Galembeck; [1]Universidade Federal de Pernambuco, [2]Universidade Federal do Paraná

SP2-F80 - Catalytic activity of Palladium nanoparticles supported on carbon during NO decomposition

Marcus Vinicius Castegnaro[1], Alex Sandre Kilian, Jessica Alexandre, Maria do Carmo Martins Alves, Ione Maluf Baibich, Jonder Morais; [1]Post-Graduation Course In Material Science

SP2-F81 - A new synthesis route of doped barium zirconate nanoparticles

Eduardo Souza, Reginaldo Muccillo

SP2-F82 - Low temperature synthesis of zinc oxide nanoparticles

Marivone Gusatti, Gilvan Sérgio Barroso, Carlos Eduardo Maduro Campos, Daniel Aragão Ribeiro Souza, Laura Abreu da Silva[1,2], Nivaldo Cabral Kuhnen, Humberto Gracher Riella; [1]Universidade Federal de Santa Catarina, [2]Depto. de Eng. Química E de Eng. de Alimentos

SP2-F83 - Influence of cell wall charge state on enzymatic interaction during hydrolysis of cellulosic fibers studied by optical methodologies

Vitor Carlos Coletta, Fernando Conceição, Danielli Galan, Igor Polikarpov, Francisco E.g. Guimaraes[1]; [1]Universidade de São Paulo - Instituto de Física de São Carlos

SP2-F84 - Hydrogen absorption in thin films composed by palladium and MoO_3 nanostructures

Donovan Enrique Diaz-Droguett[1], Rodrigo El Far, Alejandro Cabrera; [1]Pontificia Universidad Católica de Chile

SP2-F85 - Adsorption of Triclopyr on Magnesium Aluminum Layered Double Hydroxide in different media.

Priscilla de Cássia Ravagnani[1], Leonardo Paulo Ribeiro da Silva, José Francisco Naime Filho, João Barros Valim; [1]Ffclrp - Universidade de São Paulo

SP2-F86 - Optical response of carbon nanotubes functionalized noncovalently with porphyrins and phthalocyanines

Julian David Correa[1], Walter Orellana[1]; [1]Universidad Andrés Bello

SP2-F87 - Photocatalytic Degradation of Polyethylene Films withTiO2-based nanomaterials under UV irradiation

Bruna Maria da Cunha, Sidnei Paciornik[1], Paula Mendes Jardim; [1]Pontifícia Universidade Católica do Rio de Janeiro

SP2-F88 - Synthesis of SnOx aerogels for optoelectronic applications

Cássio Roberto Almeida[1], Carlos Renato Rambo[1],

Carlo Requião Cunha; [1]Universidade Federal de Santa Catarina

SP2-F89 - Rice husk: potential raw material for the in situ generation ofsupported titania catalysts: Effect of calcination temperatureand time

João Henrique Zimnoch Dos Santos[1], César Augusto Porfirio Leão[1]; [1]Universidade Federal do Rio Grande do Sul

SP2-F90 - Cell wall interaction versus Cellobiohydrolase I activity during enzimatic hydrolysis of cellulose: an optical methodolgy

Fernando Rodrigues Conceicao, Francieli Colussi, Danielli Galan, Igor Polikarpov, Francisco Eduardo Gontijo Guimarães

SP2-F91 - Influence of Surfactant Presence during Nanophorsphor Aminofunctionalization in the Conjugation Protocol for Biological Assays

Malon Larry Laranja[1], João Paulo Gelamos, Sabrina Aléssio Camacho[2], Ana Maria Pires[2]; [1]Universidade Estadual Paulista, [2]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

SP2-F92 - Structural modifications and defect formations in layered titanate nanostructures by different thermal treatments

Klaus Krambrock[1], Renata Figueredo Martins, Frederico Dias Brandão, Mauricio Veloso Brant Pinheiro, Ariete Righi, Eudes Lorençon, Luiz Orlando Ladeira; [1]Universidade Federal de Minas Gerais

SP2-F93 - Optimization of charge transfer processes between luminescent polymers and TiO_2 based photovoltaic cells

Gustavo Targino Valente[1], Angelo Danilo Faceto, Francisco Eduardo Gontijo Guimarães; [1]Universidade de São Paulo - Eesc/ifsc/iqsc

SP2-F94 - Study of copper oxide nanowires grown by resistive heating

Denise Criado[1], Philipi Greghi de Lima; [1]Universidade Federal do Abc

SP2-F95 - Mechanical, thermal and transport properties of HDPE/LLDPE blend-based nanocomposites

Fabio Roberto Passador[1], Daniel Rocha Travain, Eduardo Henrique Backes, Ana Catarina Gomes, Adhemar Colla Ruvolo Filho, Luiz Antonio Pessan[2]; [1]Programa de Pós Graduação Em Ciência E Engenharia de Materiais da Universidade Federal de São Carlos, [2]Universidade Federal de São Carlos

SP2-F96 - Polymerizing agent effects in the synthesis, morphology, dielectric and ferroelectric properties of $BaTiO_3$ thin films

Cesar Renato Foschini[1,2], Anderson André Felix, Diogo Paschoaline Volanti, Elson Longo, José Arana Varela[3]; [1]Instituto de Química, [2]Instituto de Quimica Araraquara -Unesp, [3]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP2-F97 - Effects of annealing atmosphere on the electrical properties of $CaCu_3Ti_4O_{12}$ films prepared by RF magnetron sputtering

Cesar Renato Foschini[1,2], Ronald Tararam[3], Alexandre Z. Simões, Elson Longo, José Arana Varela[4]; [1]Instituto de Química, [2]Instituto de Quimica Araraquara -Unesp, [3]Chemistry Institute Of Araraquara, [4]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP2-F98 - Photoluminescence Quenching Control in Quantum Dot-Carbon Nanotube composites

Kayo Oliveira Vieira, Marco Antonio Schiavon[1]; [1]Universidade Federal de São João Del Rei

SP2-F99 - Tin dioxide nano-structured powders for use in dye-sensitized solar cells

Eder Carlos Ferreira de Souza[1], Augusto Celso Antunes, André Vitor Chaves de Andrade[1], Sandra Regina Masetto Antunes, Christiane Philippini Ferreira Borges; [1]Universidade Estadual de Ponta Grossa

SP2-F100 - Influence of layer thickness and annealing time in the microstructure of TiO2 films for dye sensitized solar cells

Guilherme Forbeck[1], Marilena Valadares Folgueras, Adilson Luiz Chinelatto; [1]Fundação Universidade do Estado de Santa Catarina

SP2-F101 - Effect of silane treatment on the rheological and dynamic mechanical properties of PA6/HNT nanocomposites

Juliano Marini[1], Rosario Elida Suman Bretas; [1]Universidade Federal de São Carlos

SP2-F102 - CdTe nanocrystals embedded in Silica Aerogel

Douglas Tambani Flores[1], Carlos Renato Rambo[1], Carlo Requião Cunha; [1]Universidade Federal de Santa Catarina

SP2-F103 - Obtaining High Purity Neodymium Acetate From Mixed Rare Earths Carbonate

Carlos Alberto da Silva Queiroz[1], Soraya Maria Rizzo da Rocha, Walter Dos Reis Pedreira Filho, Raquel de Moraes Lobo, Mari Estela de Vasconcellos, José Antonio Seneda; [1]Instituto de Pesquisas Energéticas E Nucleares

SP2-F104 - The use of natural rubber membranes with nanoparticles of gold and silver in the control of cutaneous leishmaniasis

Carlos Gomes Barboza-Filho[1], Flávio Camargo

Cabrera[2], Caroline Silva Danna, Aldo Eloizo Job; [1]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente, [2]Universidade Estadual Paulista "júlio de Mesquita Filho"

SP2-F105 - Kinetic and equilibrium studies on the removal of Remazol Turquoise Blue G-133 from aqueous solution by adsorption onto CdS/MPS nanocomposites.

Silvânio Silvério Lopes da Costa[1], Cintya D'angeles do Espírito Santo Barbosa, George Ricardo Santana Andrade[2], Cristiane da Cunha Nascimento, Carlos Alexandre Borges Garcia; [1]Universidade Federal de Alagoas, [2]Universidade Federal de Sergipe

SP2-F106 - Calcium and barium titanate interfering with the metabolism of promastigotes that cause cutaneous leishmaniasis

Carlos Gomes Barboza-Filho[1], Agda Eunice Souza[2], Silvio Rainho Teixeira[2], Aldo Eloizo Job; [1]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente, [2]Fct-Unesp Campus de Presidente Prudente

SP2-F107 - Preparation and characterization of CdS:Cu/MPS nanocomposites

George Ricardo Santana Andrade[1], Cristiane da Cunha Nascimento, Erick Cerqueira Das Neves[1], Iara de Fátima Gimenez; [1]Universidade Federal de Sergipe

SP2-F108 - Selective toxicity for human nanoparticles of silver and gold when associated with natural rubber

Carlos Gomes Barboza-Filho[1], Caroline Silva Danna, Flávio Camargo Cabrera[2], Aldo Eloizo Job; [1]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente, [2]Universidade Estadual Paulista "júlio de Mesquita Filho"

SP2-F109 - Studies on photodegradation of rhodamine 6G in aqueous phase using CdS/MMT(thiol) nanocomposites.

George Ricardo Santana Andrade[1], Cristiane da Cunha Nascimento, Erick Cerqueira Das Neves[1], Iara de Fátima Gimenez; [1]Universidade Federal de Sergipe

SP2-F110 - TiO_2 nanoparticle solid electrode for photocatalysis.

Gabriela Byzynski Soares, Thomas Schmidt, Ive Hermans, Caue Ribeiro de Oliveira

SP2-F111 - Enhanced photocatalytic efficiency: TiO_2 supported on silica.

Margaret Dawson, Gabriela Byzynski Soares, Caue Ribeiro de Oliveira

SP2-F112 - Photocatalytic activity of TiO_2 nano-powders prepared via two different synthesis methods

Vojka Zunic, Sreco Davor Skapin, Andrijana Sever Skapin, Danilo Suvorov

SP2-F113 - Morphology and properties of Polyamide 6/Montmorillonite Nanocomposites

Amanda Dantas Oliveira[1], Nelson M. Larocca, Luiz Antonio Pessan[1]; [1]Universidade Federal de São Carlos

SP2-F114 - Vanadium pentoxide nanostructures: optical properties and visible-light phocatalytic performance

Waldir Avansi, Vagner Romito Mendonça, Lauro June Queiroz Maia, Caue Ribeiro de Oliveira, Elson Longo, Valmor Roberto Mastelaro[1]; [1]Universidade de São Paulo - Eesc/ifsc/iqsc

SP2-F115 - Analysis of the Spontaneous Polarization in Highly Non-stoichiometric Ni-Doped Sodium Strontium Niobate Powder: an Approach from Structural Data

Caroline Polini[1], Diego Henrique Moreli de Gênova[2], Alan Rogério Ferreira Lima[3], Marcos Augusto de Lima Nobre, Silvania Lanfredi[4]; [1]Universidade Estadual Paulista, [2]Fct-Unesp Campus de Presidente Prudente, [3]Universidade Federal de São Carlos, [4]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

SP2-F116 - Optimization of synthesis of spinel-type lithium manganese oxide by Microwave-Assisted Hydrothermal Method

Diego Noé David Parra, Agda Eunice Souza[1], Silvio Rainho Teixeira[1], Marcos Fernando de Souza Teixeira; [1]Fct-Unesp Campus de Presidente Prudente

SP2-F117 - Preparation of rubber powder by spray-drying of rubber lattices

Lucilene Betega de Paiva[1], Adriano Marim Oliveira, Renato Rosafa Gavioli; [1]Instituto de Pesquisas Tecnológicas do Estado de São Paulo

SP2-F118 - Adsorption of Reactive Blue 4 dye from water solutions by Carbon Nanotubos

Fernando Machado Machado[1], Carlos Pérez Bergmann, Éder Cláudio Lima, Betina Royer, Solange Binotto Fagan; [1]Universidade Federal do Rio Grande do Sul

SP2-F119 - Enhanced photoluminescence response from aged Sn^+ ion implanted silica films

F. Kremer, R. C. Lang, F. P. Luce, Z. E. Fabrim, Dario Ferreira Sanchez, F. C. Zawislak, P. F.p. Fichtner

SP2-F120 - Preparation and characterization of cadmium sulfide quantum dots supported on a thiolated bentonite.

Erick Cerqueira Das Neves[1], George Ricardo Santana Andrade[1], Cristiane da Cunha Nascimento, Iara de Fátima Gimenez; [1]Universidade Federal de Sergipe

SP2-F121 - Synthesis of TiO_2/WO_3 heterostructures by the oxidant peroxide method (OPM)
Isabela Alves Castro, Waldir Avansi Junior, Vagner Romito Mendonça, Caue Ribeiro de Oliveira

SP2-F122 - Y_2O_3 transparent ceramics via sintering two-step in a vacuum
Alan Rodrigo Marinho Gualberto[1], Adriane Damasceno de Souza, Elderson Cássio Domenicucci, Luis Carlos Caraschi, Manoel Ricardo Roncon, Antonio Carlos Hernandes[2]; [1]Instituto de Física de São Carlos, [2]Universidade de São Paulo

SP2-F123 - Engineering Functional Optical-Gap in $KSr_2Nb_5O_{15}$ Nanostructured Powder: An Approach Based on the Lattice-Strain Modulation
Diego Henrique Moreli de Gênova[1], Eliane Ayumi Namikuchi, Silvania Lanfredi[2], Marcos Augusto de Lima Nobre; [1]Fct-Unesp Campus de Presidente Prudente, [2]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

SP2-F124 - Zinc oxide containing bacterial cellulose membranes
Mariana Zaghete Bertochi[1], Maria Aparecida Zaghete[2], Carolina Bellão, Edison Pecoraro, Maristela Perez, Sidney José Lima Ribeiro, Younes Messaddeq; [1]Instiruto de Quimica Unesp, [2]Instituto de Quimica de Araraquara-Unesp

SP2-F125 - Recent Advances on the Theoretical Analysis of the Polarization Phenomenon in Niobate Ferroelectric: a Trivial Tools For Niobium off-center Magnitude Determination
Diego Henrique Moreli de Gênova[1], Eliane Ayumi Namikuchi, Caroline Polini[2], Silvania Lanfredi[3], Marcos Augusto de Lima Nobre; [1]Fct-Unesp Campus de Presidente Prudente, [2]Universidade Estadual Paulista, [3]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

SP2-F126 - Crystallographic and electrochemical characterization of lithium manganese oxides synthesized by Modified Pechinni method
Bianca Akemi Kawata[1], Alexandre Urbano[1], Jair Scarminio, Luciana Gomes Chagas, Paulo Rogério Catarini, Antonio Alfaya; [1]Universidade Estadual de Londrina

SP2-F127 - Creation of metal micro and nanoparticles using discharge arc immersed in liquid
Bernabe Rebollo Plata, Nicolas Ortega Miranda, Fernando Bravo Barrera, Ramon Madrid Garcia, Gabriela Gallardo Gomez, Miguel Angel Guzman Altamirano, Javier Gustavo Cabal Velarde

WEDNESDAY, SEPTEMBER 28TH

SESSION SP3
16:00 - 18:00 - Exhibition Hall

SP3-F128 - Microwave-assisted hydrothermal synthesis of iron oxide nanoparticles
Antonia Alice Macêdo Soares[1], Ana Cláudia Araújo, Walter Mendes de Azevedo, Severino Alves Júnior; [1]Universidade Federal de Pernambuco

SP3-F129 - Colloidal iron immobilized in clay used in dye degradation by photo-Fenton process
Giancarlo Melchior do Prado[1], Fauze Jacó Anaissi[2], Juan Carlo Villalba, Sérgio Toshio Fujiwara; [1]Universidade Estadual do Centro Oeste, [2]Universidade Estadual do Centro Oeste do Paraná

SP3-F130 - Influence of pH and temperature on the photostability of water-soluble ZnS and ZnS:Mn semiconductor nanocrystals
John Fritzgerald Cury[1], Lívia Cristina de Souza Viol, Marco Antonio Schiavon[1]; [1]Universidade Federal de São João Del Rei

SP3-F131 - Enhancement of the charge-storage capacity of nanostructured polymeric electrodes
Luana Lacy Mattos, Viviane Zurdo Costa[1], Maria Luisa Sartorelli[1], Françoise Toledo Reis; [1]Universidade Federal de Santa Catarina

SP3-F132 - Thermophysical properties of boron nitride nanotubes
Rafael Furquim Werneck Marinho[1], Edésia Martins Barros de Sousa[1], Tiago Hilário Ferreira[1], Anderson Augusto Freitas[1], Ricardo Alberto Neto Ferreira; [1]Centro de Desenvolvimento da Tecnologia Nuclear

SP3-F133 - low-field nmr study and effect of the crystallinity of the eva/TiO_2/Nb_2O_5 nanocomposites
Ana Cláudia da Silva Valentim[1], Maria Inês Tavares, Emerson Oliveira Silva[2]; [1]Universidade Federal do Rio de Janeiro, [2]Instituto de Macromoléculas Professora Eloisa Mano

SP3-F134 - Nano-structrured films of SnO_2 obtained by the sol gel technique
Rodrigo Szostak[1], Eder Carlos Ferreira de Souza[1], Sandra Regina Masetto Antunes, Christiane Philippini Ferreira Borges, André Vitor Chaves de Andrade[1], Paulo Rogério Pinto Rodrigues, Augusto Celso Antunes; [1]Universidade Estadual de Ponta Grossa

SP3-F135 - Formation Of Monodisperse Silica Nanospheres And Films
Flávia Valério Esteves Dos Reis[1], Bruna Bergamin[2], Roberto Bertholdo, Sandra Helena Pulcinelli[3], Celso

Valentim Santilli[4]; [1]Universidade Estadual Paulista "júlio de Mesquita Filho", [2]Instituto de Quimica Unesp, [3]Chemistry Institute Of Araraquara, [4]Universidade Estadual Paulista - Araraquara

SP3-F136 - Study of preparation of self-ordered anodic porous alumina

Rafael Lopes de Souza[1], Jaqueline Alves Almeida, Elisa Marchezni Rodrigues, Maximiliano Delany Martins; [1]Centro de Desenvolvimento da Tecnologia Nuclear

SP3-F137 - Development of a stationary phase containing palladium chemically bonded to the silica surface for determination of aromatic sulfur heterocycles in heavy oil

Edilson V Benvenutti[1], Maria Elisabete Machado, Eliana Weber de Menezes[2], Elina Bastos Caramão, Claudia Alcaraz Zini; [1]Institute Of Chemistry, [2]Instituto de Química

SP3-F138 - Effect of implantation of aluminun ions in tungsten oxide

Diogo Silva Corrêa[1], Irene Teresinha Santos Garcia[2]; [1]Universidade Federal de Pelotas - Centro de Ciências Químicas, Farmacêuticas E de Alimentos, [2]Universidade Federal do Rio Grande do Sul

SP3-F139 - Synthesis of ZnO nanorods and nanowires on bacterial cellulose

Juliana Rodrigues Pegos[1], Saionara Vilhegas Costa[1], Mariana Zaghete Bertochi[2], Maria Aparecida Zaghete[3], Talita Mazon[3]; [1]Centro de Tecnologia da Informação Renato Archer, [2]Instiruto de Quimica Unesp, [3]Instituto de Quimica de Araraquara-Unesp

SP3-F140 - Synthesis and characterization of $Ce_{0.8}Y_{0.2-x}La_xO_{1.9}$ solid electrolyte

Reginaldo Ferreira, Viviane Tiemi Utumi, Cristiane Gusso, Marcos Antonio Coelho Berton

SP3-F141 - PDMS membrane modified with 4-methylpyridinium derivatives as a support for gold nanoparticles.

Mirian Paula Santos Dos, Camila Marchetti Maroneze[1], Natalia Fattori[1], Yoshitaka Gushikem[1]; [1]Universidade Estadual de Campinas

SP3-F142 - Nanostructured CaSrTiFeO polycrystalline materials: synthesis, structural and microstructural characterization

L. G. Martinez, Vera L. Mazzocchi, Carlos B.r. Parente, J. Mestnik-Filho, J. R. Carmo, Reginaldo Muccillo

SP3-F143 - Ion beam synthesis of PbSe nanocrystals in TiO_2 substrates

Zacarias Eduardo Fabrim[1], Jesum Alves Fernandes[2], F. Kremer, Marcelo Barbalho Pereira[3], Ricardo Correia, Jairton Dupont, Paulo F. P. Fichtner[3]; [1]Universidade Federal do Rio Grande do Sul, [2]Federal University Of Rio Grande do Sul, [3]Institute Of Physics - Ufrgs

SP3-F144 - $SrTiO_3$ Films: Deposition by Electrophoresis with Particle Size Control

Wagner Dias Macedo Junior[1], Agda Eunice Souza[1], Gleyson Tadeu Almeida Santos, Silvio Rainho Teixeira[1], Elson Longo, Ana Maria Rocha Senos, Angel Fidel Vilche Peña; [1]Fct-Unesp Campus de Presidente Prudente

SP3-F145 - Two steps in the processing route of nanocomposites based in MgH_2

Milton Luis do Lago[1], Ricardo Floriano, Daniel Rodrigo Leiva, Tomaz Toshimi Ishikawa, Walter José Botta Filho, Valdemar Silva Leal; [1]Universidade Federal de São Carlos - Campus: São Carlos

SP3-F146 - TiO_2 aerogels for dye-sensitized solar cells

Geneviève Kreibich Pinheiro[1], Carlo Requião Cunha, Carlos Renato Rambo[1]; [1]Universidade Federal de Santa Catarina

SP3-F147 - Hydrothermal Synthesis of well-aligned TiO_2 nanorod arrays on SiO_2/Si substrates from seed layer prepared by precursor polimeric method

Thalita Angélica Destefani[1], Saionara Vilhegas Costa[1], Lara Cb Gomes, Talita Mazon[1]; [1]Centro de Tecnologia da Informação Renato Archer

SP3-F148 - Structural investigation of cobalt oxide nanoparticles supported on zirconia

Thiago Melo Lima[1], Camila Messias Barbosa Santos, Sebastião William Silva, Paulo Cesar Morais, Maria do Carmo Rangel, Patrícia Pommé Confessori Sartoratto; [1]Universidade Federal de Goiás

SP3-F149 - Synthesis Of 1d Coordination Polymer Using Ni(II), Malonic Acid And 4-Aminopyridine As Building Blocks

Ronaldo Júnior Fernandes[1], Regina Célia Galvão Frem, Patricia Bento da Silva, Rafael de Sá Freitas, Patrícia Silva, José Alberto Pires Fernandes, Filipe Alexandre Almeida Paz; [1]Instituto de Quimica Unesp

SP3-F150 - Synthesis of $BaZrO_3$ and $BaZr_{0.8}Y_{0.2}O_{3-\delta}$ nanoparticles by the spray pyrolysis technique

Renata Ayres Rocha, Érica Caproni, Eguiberto Galego, Marilene M. Serna, Eliana Navarro Dos Santos Muccillo[1], Reginaldo Muccillo; [1]Energy And Nuclear Research Institute

SP3-F151 - Preparation Of Organic Solar Filters Nanostructured Inorganic
Tamires Andrade Silva[1], Adriana Libia Nascimento[1], Gabriela Dantas Camelo, Luciano Meireles Grillo, Camila Braga Dornelas; [1]Universidade Federal de Alagoas

SP3-F152 - Synthesis and characterization of carbon nanotube/iron oxide hybrids
Lígia Parreira Souza[1], Thaís Ferreira, Sérgio Oliveira, Viviany Geraldo, Daiana Sígolo, Andre S Ferlauto[1]; [1]Universidade Federal de Minas Gerais

SP3-F153 - Synthesis and characterization of composites made of SEBS polymeric matrix with Ni-P hollow microspheres
André Messias Teixeira[1], Valderes Crespo Drago[1], Cristian Bernardi, Moisés Felipe Teixeira, Gustavo Tontini[1], Guilherme Mariz de Oliveira Barra, Aloísio Nelmo Klein[1]; [1]Universidade Federal de Santa Catarina

SP3-F154 - The use of linear vicinal diols like dispersants in a solventless synthesis of hexagonal NiS
Victor Alexandre Veit Schmachtenberg[1], Junior Antunes Koch[1], Gustavo Tontini[1], André Messias Teixeira[1], Valderes Crespo Drago[1]; [1]Universidade Federal de Santa Catarina

SP3-F155 - Hydrothermal Synthesis of a Ni_xC – Carbon Hybrid
Junior Antunes Koch[1], Cristian Bernardi, Victor Alexandre Veit Schmachtenberg[1], Valderes Crespo Drago[1]; [1]Universidade Federal de Santa Catarina

SP3-F156 - Hydrothermal Reflux Assisted Synthesis of a Ni – Carbon Hybrid
Junior Antunes Koch[1], Cristian Bernardi, Victor Alexandre Veit Schmachtenberg[1], Valderes Crespo Drago[1]; [1]Universidade Federal de Santa Catarina

SP3-F157 - Carbon xerogel as support to peroxidase immobilization
Taciana Valéria de Almeida Vieira[1], Honória de Fátima Gorgulho, Patrícia Benedini Martelli, Mariana Botelho Barbosa[1]; [1]Universidade Federal de São João Del Rei

SP3-F158 - Electrodeposition of ZnO Thin Films
Natália Pereira Rezende[1], Maximiliano Luis Munford, Andre Avelino Pasa, Iuri Stefani Brandt; [1]Fundação Universidade Federal de Viçosa

SP3-F159 - Synthesis and characterization of hybrid materials constituted by PAni and by micro and nanoparticled vanadium oxides.
Wellington Douglas Guimarães Gonçalves[1], Genilson Reinaldo da Silva, Larisse Gomes Salazar, Cleiser Thiago Pereira da Silva, Nelson Luis de Campos Domingues, Gian Paulo Giovanni Freschi, Andrelson Wellington Rinaldi; [1]Fundação Universidade Federal da Grande Dourados

SP3-F160 - The mechanical effect of carbon nanotube additions on polymeric-cementitious composites
Marco Antonio Schiavon[1], Fabio Paiva Cota, Tulio Hallak Panzera, Chris R. Bowen, Andre Luiz Christoforo; [1]Universidade Federal de São João Del Rei

SP3-F161 - Synthesis insitu of proton conducting titanate into Nafion by conventional and microwave-assisted hydrothermal method
Bruno Ribeiro Matos[1], Alexandre José de Castro Lanfredi, Elisabete Inácio Santiago, Marcelo Linardi, José Fernando Queiruga Rey, Fabio C Fonseca; [1]Instituto de Pesquisas Energéticas E Nucleares

SP3-F162 - Development and characterization of thin films constituted of conventional polymer and nanostructures
Adalberto Villalba Mezacasa[1], Sílvia Mendes de Souza[1], Wellington Douglas Gonçalves, Diogo Duarte Robre, Luis Felipe Moraes, Nelson Luis Domingues, Andrelson Wellington Rinaldi; [1]Universidade Federal da Grande Dourados

SP3-F163 - Study of catalytic and electric properties of Ru-doped manganite-cromite anodes for solid oxidefuel cells
Natalia Kondo Monteiro, Fabio B Noronha, Lídia Oazem de Oliveira da Costa, Fabio C Fonseca

SP3-F164 - TiO_2 Nanotubes Morphology Control
Daniel Amancio Duarte[1], Paulo Jorge Passos Dos Santos, Raquel Milani[1,2], Jose Albino Aguiar, Giovanna Machado; [1]Universidade Federal de Pernambuco, [2]Centro de Tecnologias Estratégicas do Nordeste

SP3-F165 - Production and Characterization of hybrid composites
Ana Angelica Dos Santos Faro, Camila Santana Cruz[1], Alexandro Silva Assis, Ledjane Silva Barreto, Fernando Luiz Bastian; [1]Universidade Federal de Sergipe

SP3-F166 - Production and caracterization of materials of CuCl doped RbCl thin films for application in optical filters in the UV region
Luíz Gustavo Simão Albano[1], Dayse Iara Dos Santos[2], José Humberto Dias da Silva, Lígia Oliveira Ruggiero[3]; [1]Universidade Estadual Paulista Júlio de Mesquita Filho, [2]Faculdade de Ciências de Bauru -

Unesp, [3]Universidade Estadual Paulista "júlio de Mesquita Filho"

SP3-F167 - Desulfurization of diesel oil by Iron and Cobalt´s catalysts with ligands ionophilic

Janice Adamski[1], Jairton Dupont; [1]Post-Graduation Course In Material Science

SP3-F168 - Effect of processing conditions on thermal properties in Nylon 6/ modified clay nancomposites

Eleonora Erdmann, Griselda Flores, María Celeste Carrera, María Antonia Toro, Hugo Alberto Destéfanis

SP3-F169 - Growth of boron nitride nanotubes vertically aligned on silicon substrate

Tiago Hilário Ferreira[1], Mario da Silva Araújo Filho, Anderson Augusto Freitas[1], Waldemar Augusto de Almeida Macedo, Edésia Martins Barros de Sousa[1]; [1]Centro de Desenvolvimento da Tecnologia Nuclear

SP3-F170 - Studies on dispersion and purification of polyethylene glycol-functionalized single-walled carbon nanotubes in aqueous media

Tiago de Mattos Serodre, Lidiane Dal Bosco, Carla Onara Gonçalves[1], Daniela Martí Barros, Clascídia A. Furtado, Adelina Pinheiro Santos; [1]Centro de Desenvolvimento Nuclear

SP3-F171 - Opto-electrochemistry and crystallographic characterization of tungsten, vanadium and their mixtures thin films oxides

Paulo Rogério Catarini, Jair Scarminio, Alexandre Urbano[1], Luis Henrique Amorin[1], Airton Lourenço, Lisandro Cardoso; [1]Universidade Estadual de Londrina

SP3-F172 - Fe2O3 hybrid functionalized nanoparticles application to cell culture

Adalberto Villalba Mezacasa[1], A Moroz, S Felisbino, I Rosa, E Deffune, Nelson Luis Domingues, Andrelson Wellington Rinaldi; [1]Universidade Federal da Grande Dourados

SP3-F173 - Synthesis and Characterization of LDH/Ppy composite with layered double hydroxides obtained by urea hydrolysis method

Marina Paz Hyppólito[1], Leonardo Luis de Freitas, Ricardo Reis Soares, Sheila Cristina Canobre; [1]Universidade Federal de Uberlândia

SP3-F174 - Sintering of Zirconia-India Solid Electrolyte By Liquid Phase

Daniel Zanetti de Florio, Murilo Nicolau

SP3-F175 - Optical and electrochemical characterization of hybridmaterial constituted by conductive polymer and Fe2O3

Sílvia Mendes de Souza[1], Luis Felipe Moraes, Persiely Pires Rosa, Vicente Lira Kupfer[1], Cleiser Tiago Pereira Silva, Nelson Luis Domingues, Andrelson Wellington Rinaldi; [1]Universidade Federal da Grande Dourados

SP3-F176 - Crystallographic and opto-electrochemical evaluation of nanostructured vanadium oxide thin film deposited by electron beam

Alexandre Urbano[1], Larissa Martins, Luis Henrique Amorin[1], Paulo Rogério Catarini, Wido Herwig Schreiner, Jair Scarminio; [1]Universidade Estadual de Londrina

SP3-F177 - Optical Characterization of an Europium β-Diketonate Complex in the Cast Film form

Sabrina Aléssio Camacho[1], Malon Larry Laranja[2], Sergio Antonio Marques Lima[2], Carlos José Leopoldo Constantino, Ana Maria Pires[2]; [1]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente, [2]Universidade Estadual Paulista

SP3-F178 - Aplication of Amphiphilic Magnetic Nanoparticle Based on Nanoparticles of Alumina and Carbon Nanotubes to Promote Reactions in Biphasic Systems

Ivo Freitas Teixeira, Rochel Montero Lago, Aline Silva Oliveira

SP3-F179 - Synthesis, characterization and larvicidal activity of the copper (II) complex derivated of N-salicilidenoaniline

Mirian Yoshiko Matsumoto[1], Wesley Pereira da Silva, Larisse Gomes Salazar, Keila Batista Dias[1], Eduardo José Arruda, Nelson Luis de Campos Domingues, Andrelson Wellington Rinaldi; [1]Universidade Federal da Grande Dourados

SP3-F180 - Preparation and Characterization of NiO/Carbon Composites from Biomass

Thalita Santos Bispo[1], Gabriela Borin Barin[1], Iara de Fátima Gimenez, Neftalí Lenin Villarreal Carreño, Ledjane Silva Barreto; [1]Universidade Federal de Sergipe

SP3-F181 - A novel templated synthesis of a europium-containing compound and its characterization

Rodrigo da Silva Viana, Eduardo Henrrique Falcão, Marcelo de Oliveira Rodrigues, Severino Alves Junior

SP3-F182 - Effect of the precursors on the morphology of ZnO nanosctrucutres synthesized by hydrothermal synthesis on FTO/Glass substrates

Saionara Vilhegas Costa[1], Jorge Tomioka, Talita Mazon[1]; [1]Centro de Tecnologia da Informação Renato Archer

SP3-F183 - Electrodeposition of Ni Nano-Particles In Alumina Anodic Membranes

José Flávio Timóteo Júnior[1], Laura Ximena Lovisa, João José M. Santos, Carlos Alberto Paskocimas; [1]Universidade Federal do Amazonas

SP3-F184 - Thin films made out of hybrid materials for sensor applications.

Keila Batista Dias[1], Persiely Pires Rosa, Mirian Yoshiko Matsumoto[1], Vicente Lira Kupfer[1], Wellington Douglas Gonçalves, Nelson Luis de Campos Domingues, Andrelson Wellington Rinaldi; [1]Universidade Federal da Grande Dourados

SP3-F185 - Growth Fe-doped SnO_2 nanostructured thin film by hydrothermal method

Daniel Belchior Rocha[1], Allan Moreira Xavier, Flavio Leandro Souza; [1]Universidade Federal do Abc

SP3-F186 - Photocatalytic activity of two different morphological structures of ZnO

Felipe Antonio Lucca Sánchez[1], Luana S. Oliveira, Antonio Shigueaki Takimi, Carlos Pérez Bergmann; [1]Universidade Federal do Rio Grande do Sul

SP3-F187 - Structural and transport properties of Tin oxide doped with Germanium nanowires

Han Pang Huang[1], Jose Rey Queiroga, Adenilson José Chiquito, Alexandre José de Castro Lanfredi; [1]Universidade Federal do Abc

SP3-F188 - Mechanical properties of activated carbon membranes

Amal Elzubair Eltom, Marcus Paulo Fournier Lessa, Marcelo Jose da Silva, Jose Carlos da Rocha

SP3-F189 - Investigation of single wall carbon nanotube-surfactant dispersions by experimental design techniques

Régis Fernandes Gontijo, Flávio Plentz, Cristiano Fantini, Clascídia A. Furtado, Adelina Pinheiro Santos

SP3-F190 - Production and caracterization óptica of materials of Er_2O_3 doped CaF_2 thin films

Luíz Gustavo Simão Albano[1], Dayse Iara Dos Santos[2], José Humberto Dias da Silva, Lígia Oliveira Ruggiero[3]; [1]Universidade Estadual Paulista Júlio de Mesquita Filho, [2]Faculdade de Ciências de Bauru - Unesp, [3]Universidade Estadual Paulista "júlio de Mesquita Filho"

SP3-F191 - Functional Oxides Composites Prepared by a Hybrid Route

Dayse Iara Dos Santos[1], Aureo Murador Filho, Marcos Yukio Kussuda, Antonio Carlos Dias Ângelo, Jaegeun Kim, Dongqi Shi, Shixue Dou; [1]Faculdade de Ciências de Bauru - Unesp

SP3-F192 - Powder substrates thin films coated using magnetron sputtering deposition.

Dario Eberhardt[1], Adriano Friedrich Feil[2], Pedro Migowski, Sergio Ribeiro Teixeira[2], Jairton Dupont; [1]Federal University Of Rio Grande do Sul, [2]Universidade Federal do Rio Grande do Sul

SP3-F193 - TiO_2 nanotubes decorated with Au nanoparticles for H_2 production

Guilherme Josué Machado[1], Adriano Friedrich Feil[1], Pedro Migowski, Jesum Alves Fernandes[2], Heberton Wender, Sergio Ribeiro Teixeira[2], Livio Amaral; [1]Universidade Federal do Rio Grande do Sul, [2]Federal University Of Rio Grande do Sul

SP3-F194 - Production of high-ordered TiO_2 nanotubes for application in dye-sensitized solar cells (DSSCs)

Jesum Alves Fernandes[1], Adriano Friedrich Feil[2], Pedro Migowski, Guilherme Josué Machado[2], Sergio Ribeiro Teixeira[2], Marcos Jose Leite Santos, Jairton Dupont; [1]Federal University Of Rio Grande do Sul, [2]Universidade Federal do Rio Grande do Sul

SP3-F195 - Synthesis of Ta_2O_5 and TiO_2 nanotubes by anodization process for hydrogen production

Lúcio Sulzbach Silva[1], Jesum Alves Fernandes[2], Renato Vitalino Gonçalves[2], Adriano Friedrich Feil[2], Guilherme Josué Machado[2], Pedro Migowski, Sérgio Ribeiro Teixeira[2]; [1]Universidade Federal do Rio Grande do Sul, [2]Federal University Of Rio Grande do Sul

SP3-F196 - Fabrication of Ta_2O_5 Nanotubes by Anodization: A Promising Photocatalyst for Hydrogen Production

Renato Vitalino Gonçalves[1]; [1]Universidade Federal do Rio Grande do Sul

SP3-F197 - Preparation and characterization of a magnetic composite to be applied in environmental remediation processes

Isabel C. Souza Dinóla, William H. Trujillo[1], Gabriela Cordeiro; [1]Centro Brasileiro de Pesquisas Físicas

SYMPOSIUM G

Molecular Modeling Materials Science

Chairs

Aguinaldo Robinson de Souza (DQ – Unesp)
Nelson Henrique Morgon (IQ – UNICAMP)

ORAL PRESENTATIONS

* Invited Lecture

WEDNESDAY, SEPTEMBER 28TH

SESSION G6
09:30 - 10:30 - Room 12

09:30 - G6.1*
A Theoretical Study on the Pressure-induced Phase Transitions in Inverse Spinel Structure Zn_2SnO_4
Armando Beltrán, Lourdes Gracia, Juan Andrés

10:00 - G6.2*
Photophysical Aspects of Some Photosensitizers with Potential Applications in Photodynamic Therapy
Antonio Carlos Borin

SESSION G7
11:00 - 12:30 - Room 12

11:00 - G7.1*
Multiscale modeling and physical chemistry aspects on the milk proteins and polyelectrolytes complexation for biotechnology, food and pharmaceutical science applications
Fernando Luís Barroso da Silva

11:30 - G7.2
Theoretical-Computational Study of Drugs Insertions into the Cavity of the CU-BTC MOF Using PM6 and B3LYP Methods
Flávia Raquel Lucena[1], Nailton M Rodrigues, Nivan Bezerra da Costa Júnior, Ricardo O Freire, Silene Carneiro do Nascimento, Severino Alves Junior; [1]Universidade Federal de Pernambuco

11:45 - G7.3
Temperature Control in Green's Function Molecular Dynamics Simulations
Vitor Rafael Coluci, Sócrates de Oliveira Dantas[1], Marcelino Cordeiro Neto; [1]Universidade Federal de Juiz de Fora

12:00 - G7.4
Paralel implementation of relativistic quantum mechanics DIRAC program in a computer cluster
André Luiz Fassone Canova[1], Aguinaldo Robinson de Souza[2]; [1]Universidade Estadual Paulista "julio de Mesquita Filho" - Posmat, [2]Universidade Estadual Paulista "júlio de Mesquita Filho"

SESSION G8
15:00 - 16:00 - Room 12

15:00 - G8.1*
Using a lattice model to study the role of diffusion in protein folding
Jorge Chahine

15:30 - G8.2
C_{70} motion analysis in H_2O solution by molecular dynamics
Flaviano Williams Fernandes[1], Renê Keidel Spada, Bruno Cecarelli, Filipe Leôncio Braga; [1]Instituto Tecnológico de Aeronáutica

15:45 - G8.3
The Study of Non-Harmonic Oscillations
Angélica Castilho Gasparoto[1], José Pedro Rino; [1]Universidade Federal de São Carlos

THURSDAY , SEPTEMBER 29TH

SESSION G9
09:30 - 10:30 - Room 12

09:30 - G9.1*
GridUNESP: high-performance computational infrastructure in material science
Ney Lemke

10:00 - G9.2
Sequential QM/MM Simulation to design an Enzyme-based Nanobiosensor using Atomic Force Microscopy
Richard André Cunha[1], Fabio Lima Leite, Osvaldo Novais Oliveira Jr, Eduardo de Faria Franca; [1]Universidade Federal de Uberlândia

POSTER PRESENTATIONS

WEDNESDAY, SEPTEMBER 28TH

SESSION SP3
16:00 - 18:00 - Exhibition Hall

SP3-G1 - Using modelling to explain properties of amorphous and crystalline alumina
Raquel Lizárraga, Erik Holmström, Stephen Charles Parker, Corinne Arrouvel[1]; [1]Universidade Federal de

Sergipe

SP3-G2 - A theoretical study of gap clusters using B3LYP/LanL2DZ method.

Nelson H Morgon

SP3-G3 - Deamination Of Cytosine By N_2O_3: A Theoretical Study.

Nelson H Morgon, Aguinaldo Robinson de Souza[1]; [1]Universidade Estadual Paulista "júlio de Mesquita Filho"

SP3-G4 - Stability and Magnetic Structure of Fe-Ir Alloys Transformed Into Substituted Nitrides of Type $M_XFE_{4-X}N$.

Antonio Vanderlei Dos Santos

SP3-G5 - Theoretical quantum-chemical study of the interaction of Ge^{2+}-porphyrin with O_2

Cleuton de Souza Silva[1]; [1]Universidade Federal do Amazonas

SP3-G6 - Theoretical study of the interaction of Ni^{2+}-porphyrin with O_2

Cleuton de Souza Silva[1]; [1]Universidade Federal do Amazonas

SP3-G7 - Nimesulide interaction with carboxylated and pristine carbon nanotubes

Laura Osmari Vendrame, Ivana Zanella da Silva[1], Solange Binotto Fagan; [1]Centro Universitário Franciscano

SP3-G8 - Density Functional Theory calculations of gallium nitride nanoclusters

Francisco Carlos Lavarda[1], Leonardo de Conti Dias Aguiar; [1]Faculdade de Ciências de Bauru - Unesp

SP3-G9 - Elucidation of spectroscopic data of derivatives from Croton ururucana Baill: a theoretical stury at level DFT.

Silvana de Oliveira Silva[1], Carlos Felipe S. Oliveira, Henrique Fernandes Figueira Brasil, Cláudio Nahum Alves, Davi do Socorro Barros Brasil; [1]Universidade Federal do Pará

SP3-G10 - Theoretical attainment of NMR data to solve structural problems of a limonoid isolated from Swietenia macrophylla

Henrique Fernandes Figueira Brasil, Silvana de Oliveira Silva[1], Kelly Christina Ferreira Castro, Luiz Guilherme Machado de Macedo, Cláudio Nahum Alves, Milton Nascimento da Silva, Davi do Socorro Barros Brasil; [1]Universidade Federal do Pará

SP3-G11 - Correlations between Electronic Structure and Optical Properties of a Fluorene-Benzothiadiazole Copolymer: A Theoretical and Experimental Study

Leonardo Schneider, Paula C. Rodrigues, Nestor C. Saavedra, Wido Herwig Schreiner, Leni Campos Akcelrud

SP3-G12 - PRODRG: Structural Bioinformatics Protein on topologies with 3_1

Paula Martins da Silva[1], Aguinaldo Robinson de Souza[2]; [1]Universidade Estatual Paulista "júlio de Mesquita Filho", [2]Universidade Estadual Paulista "júlio de Mesquita Filho"

SP3-G13 - Favorable energy region in the topology 3_1

Paula Martins da Silva[1], Aguinaldo Robinson de Souza[2]; [1]Universidade Estatual Paulista "júlio de Mesquita Filho", [2]Universidade Estadual Paulista "júlio de Mesquita Filho"

SP3-G14 - Axial pressure on carbon nanotubes, a first principles approach

Ivi Valentini Lara[1], Solange Binotto Fagan; [1]Universidade Federal de Santa Maria

SP3-G15 - Analysis of the kinetics of recrystallization of an IF steelby neural networks

Glaucio Fonseca[1], José Flávio Feiteira, Adauto Assis, Gerson Inacio, Phablo Carvalho; [1]Universidade Federal Fluminense

SP3-G16 - Nitrogen Vacancies Effect on the Electronic Properties of the Diluted Magnetic Semiconductor $Ga_{1-x}Mn_x$ N

Carmen Regina Souza[1], Marcilene Maluf; [1]Faculdade de Ciências de Bauru - Unesp

SP3-G17 - estrutura eletronica e estabilidade do dioxido de titanio

Matheus Diel Casarin Dias, Maiquele Batirola Malikowski[1], Jéssica de Vargas Santos[1], Antonio Vanderlei Dos Santos; [1]Universidade Regional Integrada do Alto Uruguai E Das Missões

SP3-G18 - Stability and magnetic Properties of fine films of Fe-Cu.

Maiquele Batirola Malikowski[1], Jéssica de Vargas Santos[1], Matheus Diel Casarin Dias, Antonio Vanderlei Dos Santos; [1]Universidade Regional Integrada do Alto Uruguai E Das Missões

SP3-G19 - Geometrical parameters of HexHy complexes

Aguinaldo Robinson de Souza[1], Nelson H Morgon; [1]Universidade Estadual Paulista "júlio de Mesquita Filho"

SP3-G20 - Study of electronic properties of the substitutional nitrides $BeFe_3N$ and $LiFe_3N$.

Danielli Jaskulski Gonsiorkiewicz[1], João Carlos Krause; [1]Universidade Regional Integrada do Alto Uruguai E Das Missões

SP3-G21 - Boron and Nitrogen doped double wall carbon nanotubes: first-principles calculations

Renata da Silva Bergoli[1], Jussane Rossato, Leandro Barros da Silva, Solange Binotto Fagan; [1]Universidade Federal de Santa Maria

SP3-G22 - Rotational dynamics of C_{70} in C_{70}-cubane crystals

Tatiana Mello da Costa Faro[1], Vitor Rafael Coluci, Munir Salomão Skaf; [1]Universidade Estadual de Campinas

SP3-G23 - A TDDFT/ECP Approach To The Study of The Low Lying Electronic States of Organochlorinated Pesticides

Alamgir Khan[1], Pedro Antonio Muniz Vazquez; [1]Universidade Estadual de Campinas

SP3-G24 - Accurate Gaussian Basis Sets for New Material Quantum Chemical Calculations

Milena Palhares Maringolo[1], Alberico Borges Ferreira da Silva; [1]Institute Of Chemistry Of Sao Carlos

SP3-G25 - Adsorption of Chromium (VI) in carbon nanotubes functionalized with titanium oxide, carboxylic and hydroxyl groups

Ana Paula Schwarz[1,2], Renata da Silva Bergoli[3], Solange Binotto Fagan, Carlos Pérez Bergmann; [1]Universidade Federal do Rio Grande do Sul, [2]Centro Universitário Franciscano, [3]Universidade Federal de Santa Maria

SP3-G26 - Determination of the energy diagram of ultrathin films formed with metallophthalocyanines and natural polysaccharides

Silio Lima de Moura[1], Ionara Nayana Gomes Passos, Inês Maria de Souza Araújo, José Aroldo Viana Dos Santos, Jose Ribeiro Santos Junior; [1]Universidade Federal do Piauí

SP3-G27 - Structural characterizations, thermal properties and DFT theoretical studies of PMMA/Fe_3O_4

Marcus Vinícius Juliaci Rocha[1], Teodorico Castro Ramalho; [1]Universidade Federal de Lavras

SP3-G28 - Tension and compression of a gold nanowire using molecular dynamics

Sergio Mejia, Carlos Fernández

SP3-G29 - Theoretical and experimental studies of the band structure of δ-FeOOH

Marcus Vinícius Juliaci Rocha[1], Adilson Cândido da Silva, Márcio César Pereira, Teodorico Castro Ramalho; [1]Universidade Federal de Lavras

SP3-G30 - Characterization of Attapugite:Pharmaceutical aplication

Antonio Carlos Silva da Costa, Paulo Henrique Chibério, Wilson Acchar

SP3-G31 - Simulation of the microwave attenuation behavior of POMA/carbon black composites in the range of 2 - 40 GHz

Simone Souza Pinto[1], Mirabel Cerqueira Rezende; [1]Instituto Tecnológico de Aeronáutica

SP3-G32 - Theoretical study of the PEDOT:PSS/KDP mixture on aqueous medium

Felipe Azevedo Rios Silva[1], Elaine Rose Maia; [1]Universidade de Brasília

SP3-G33 - Application of chemical calculations on the study ofchromiumspecies related to tanning process

Fernando Dal Pont Morisso[1], Rejane Menezes de Morais Paiva, Angela Beatrice Dewes Moura; [1]Universidade Feevale

SP3-G34 - Structure of Cu-Zr Amorphous Alloys Studied by Molecular Dynamics Simulation

Alejandro Zuniga[1], Javier Wachter, Camilo Casas; [1]Universidade Federal do Abc

SP3-G35 - Theoretical study of iron impurities in magnesium oxide

Rolando Larico Mamani[1], Lucy V. Credidio Assali[2], Joao Francisco Justo Filho; [1]Universidade de São Paulo, [2]Instituto de Física da Universidade de São Paulo

SP3-G36 - Physical properties of rutile SnO_2 nanowires: an ab initio investigation

Joelson Cott Garcia[1], Joao Francisco Justo Filho; [1]Polytechnic School Of The University Of São Paulo

SP3-G37 - Topological Analysis of the Microstructure Generated by Cellular Automata

Daniel Souto de Souza, Weslley Luiz da Silva Assis, Paulo Rangel Rios, Gláucio Soares da Fonseca

SP3-G38 - Fullerene interacting with drugs and vitamins:ab initio simulations

Ivana Zanella da Silva[1], Elisane Michelon, Jussane Rossato, Solange Binotto Fagan; [1]Centro Universitário Franciscano

SP3-G39 - Carbon nanotubes interacting with dyes: a first principles approach

Iuri Jauris[1], Solange Binotto Fagan; [1]Centro Universitário Franciscano

SP3-G40 - Cyclodextrins interacting with vitamins via molecular modeling

Ivana Zanella da Silva[1], Jaciéli Evangelho de Figueiredo, Thiago Schmeling Fontana, Solange Binotto Fagan; [1]Centro Universitário Franciscano

SP3-G41 - Interaction Ab Initio Of Carbon Nanotubes With Biotin Molecules

Daniele Morgenstern Aimi[1], Solange Binotto Fagan,

Clarissa Piccini Frizzo, Jussane Rossato; [1]Centro Universitário Franciscano

SP3-G42 - Experimental and theoretical studies of a hybrid material based on silica and cyclodextrin

Lucas Bragança de Carvalho[1], Marcus Vinícius Juliaci Rocha[1], Luciana de Matos Alves Pinto, Teodorico Castro Ramalho; [1]Universidade Federal de Lavras

SP3-G43 - Discrete genetic algorithm applied to Al clusters

Raisi Natalia Lenz Baldez[1], Alex André Schmidt, Paulo Cesar Piquini; [1]Universidade Federal de Santa Maria

SP3-G44 - Structure of poly(3-hexylthiophene) in solution

Francisco Carlos Lavarda[1], Eliézer Fernando Oliveira; [1]Faculdade de Ciências de Bauru - Unesp

SP3-G45 - On the dynamics of formation of carbon nanotube serpentines: a fully atomistic molecular dynamics study

Leonardo Dantas Machado, Sergio Benites Legoas, Jaqueline Santos Soares, Nitzan Shadmi, Ado Jorio, Ernesto Joselevich, Douglas Soares Galvão

SP3-G46 - Interaction between gold nanoparticles and biomembranes investigated by coarse-grained molecular dynamics simulation

Edroaldo Lummertz da Rocha[1], Giovanni Finoto Caramori, Luismar Marques Porto, Carlos Renato Rambo[1]; [1]Universidade Federal de Santa Catarina

SP3-G47 - Doped Assemblies of Gold Nanoparticles: Structural and Electronic Properties

Ronaldo Junio Campos Batista[1], Hélio Chacham[2], Jonathan Martins; [1]Universidade Federal de Ouro Preto, [2]Universidade Federal de Minas Gerais

SP3-G48 - Prediction of polyfluorenes optical properties by Support Vector Machines

Ricardo Stefani[1], Rogerio Barbosa da Silva[1]; [1]Universidade Federal de Mato Grosso/ Barra do Garças

SP3-G49 - Theoretical study of substituted polyaniline

Liliana Yolanda Ancalla Dávila[1], Nilo Mauricio Sotomayor, Lino Mendes Barbosa[1]; [1]Fundação Universidade Federal do Tocantins

SYMPOSIUM H

Structure-Properties Relationship of Advanced Metallic Materials

Chairs

Leonardo Barbosa Godefroid (UFOP)
Waldek Wladimir Bose Filho (USP)
Luiz Carlos Rolim Lopes (UFF)
Juan Perez Ipiña (UNCOMA)
Pedro Dolabella Portella (BAM)

ORAL PRESENTATIONS

* Invited Lecture

MONDAY , SEPTEMBER 26TH

SESSION H1
09:30 - 10:30 - Room 17

09:30 - H1.1

A study of morphology and martensitic transformation of TRIP steel and Fe alloy

Cláudia Nazaré Dos Santos[1], Andersan Santos Paula, Carlos Sergio da Costa Viana; [1]Centro Universitário do Leste de Minas Gerais

09:45 - H1.2

Sigma Phase Precipitation and its Effects on Toughness and Corrosion Resistance of Duplex Stainless Steel

Evaldo Diniz Dias[1], Thigo Paulino Tranin, Carlos Roberto Xavier, Rosinei Batista Ribeiro; [1]Centro Universitário de Volta Redonda

10:00 - H1.3

Multivariant and the oriented martensite structure relations in copper based shspe memory alloys

Osman Adiguzel

10:15 - H1.4

EVALUATION OF HYDROGEN EMBRITTLEMENT IN API 5LX-80 STEEL WELDED JOINTS

Theophilo Moura Maciel, Antonio Almeida Silva, Emanuel Pereira Soares, Bruno Allyson Araújo

SESSION H2
11:00 - 12:30 - Room 17

11:00 - H2.1

Fatigue crack growth of 7475 T7351 under variable spectrum loading

Aline Albuquerque Moreira[1], Arthur Valadares Santos, Waldek Wladimir Bose Filho, Cassius Terra Ruchert; [1]Universidade de São Paulo - Materias - Eesc

11:15 - H2.2

Fatigue resistance of welded and adhesive bonded metal joints used in automotive applications

Leonardo Barbosa Godefroid[1]; [1]Universidade Federal de Ouro Preto

11:30 - H2.3

Fatigue properties of machined specimens from cast and forged railroad steel wheels

Syme Regina Souza Queiroz[1], Renato Lyra Villas Boas, Domingos José Minicucci, André Uehara Yogou, Raimundo Expedito Vasconcelos, Valdir Alves Guimarães, Itamar Ferreira; [1]Universidade Estadual de Campinas

11:45 - H2.4

Effect of rolling condition on the fatigue resistance of an IF steel used in automotive applications

Leonardo Barbosa Godefroid[1]; [1]Universidade Federal de Ouro Preto

12:00 - H2.5

Design of a Steel with High Abrasive Wear Resistance for Impact Applications from boron additions in a Low Carbon Matrix.

David Fernando Panche[1], Jairo Arturo Escobar; [1]Universidad de Los Andes Colombia

TUESDAY , SEPTEMBER 27TH

SESSION H4
09:30 - 10:30 - Room 17

09:30 - H4.1

Laser beam welding and plasma arc welding of a maraging steel sheet for applications in a rocket engine

Sheila Medeiros de Carvalho, Milton Sérgio Fernandes de Lima, José A. O. Garcia

09:45 - H4.2

Evaluation of Microstructure and Microhardness of API 5L X80 Steel Welded Joints Using Automated Welding Process in Different Welding Positions

Siderley Fernandes Albuquerque, Raphael Sousa Silva, Marco Antônio Santos, Theophilo Moura Maciel, Alexandre Queiroz Bracarense

10:00 - H4.3

P/M-Ti–48Al–2Cr–2Nb development for aerospace applications

Vinicius Rodrigues Henriques, Ana Machado Dutra, Carlos Alves Cairo

SESSION H5
11:00 - 12:30 - Room 17

11:00 - H5.1

Microstructural evaluation of Ti-6Al-4V with bimodal microstructure after creep tests

Gustavo Fernandes Araujo[1], Luciana Aparecida Narciso da Silva Briguente, Danieli Aparecida Pereira Reis, Carlos de Moura Neto, Miguel Justino Ribeiro Barbosa, Flávio Briguente; [1]Escola de Engenharia de Lorena - Usp

11:15 - H5.2

Influence of Different Processing Routes on Mechanical Properties of X-750 Superalloy

Gabriela Regina Xavier de Souza[1], André Freitas Ribeiro, Sinara Borborema Gabriel, Sinara Borborema Gabriel, Luiz Henrique de Almeida; [1]Universidade Federal do Rio de Janeiro

11:30 - H5.3

Evaluation of the mechanical behavior at 600 to 800ºC on Inconel 718 as received

Karina Martinolli Dos Santos[1], Danieli Aparecida Pereira Reis, Carlos de Moura Neto, Ana Cláudia de Oliveira Hirschmann; [1]Instituto Tecnológico de Aeronáutica

11:45 - H5.4

Evaluation of hot tensile and creep behavior of superalloy Inconel 718 after double aging.

Katia Cristiane Gandolpho Candioto, Felipe Caliari, Danieli Aparecida Pereira Reis, Antonio Augusto Couto, Carlos Moura Neto, Carlos Angelo Nunes

12:00 - H5.5

Influence of molybdenum content in model Fe-Cr-Mo alloys (9Cr-xMo, x = 5, 7 and 9 wt.%) and in a commercial P9 (8Cr-1Mo wt.%) alloy at elevated temperatures (between 450°C and 650ºC).

Marcelo José Gomes da Silva, Luis Flávio Gaspar Herculano, Jardel de Souza Belo, José Demontier Vieira, Alex Maia do Nascimento, Hamilton Ferreira Gomes de Abreu

12:15 - H5.6

Creep Behavior Of TI-6AL-4V With Martensite And Bimodal Microstructures

Fabrícia Assis Resende[1], Luciana Aparecida Narciso da Silva Briguente, Danieli Aparecida Pereira Reis, Miguel Justino Ribeiro Barbosa, Roseli de Souza Félix, Carlos de Moura Neto; [1]Demar/eel-Usp, Sp

WEDNESDAY, SEPTEMBER 28TH

SESSION H6
09:30 - 10:30 - Room 17

09:30 - H6.1
Scanning Probe Microscopy (SPM) study of the surface integrity of an AISI 304 austenitic stainless steel
Thompson Júnior Ávila Reis, Jose Rubens Gonçalves Carneiro, José Mário Carneiro Vilela, Margareth Spangler Andrade

09:45 - H6.2
A study of the mechanical properties of AA6013-T4 aluminum alloy subjected to post-aging heat treatment
Rafael Humberto Mota de Siqueira, Milton Sergio Fernandes de Lima, Rudimar Riva, Carlos Antonio Reis Pereira Baptista, Antonio Jorge Abdalla

10:00 - H6.3
Structure and Properties of Quenched Ti-(32-4x)%Nb-x%Mo Alloys
Marilia Santos de Souza, Lioudmila Aleksandrovna Matlakhova[1], Anatoliy Nikolaevich Matlakhov[1], Herval Ramos Paes Júnior, Boris Andreevich Goncharenko; [1]Universidade Estadual do Norte Fluminense Darcy Ribeiro

10:15 - H6.4
Gold and Silver Nanoshells: Synthesis, Immobilization on SiO_2 Surfaces and SERS Probing
Antonio Brito Silva[1], Regivaldo Sobral Filho, Renato Barbosa Silva, Giovanna Machado, Cid Bartolomeu de Araújo, Alexadre Brolo, André Galembeck; [1]Centro de Tecnologias Estratégicas do Nordeste

SESSION H7
11:00 - 12:30 - Room 17

11:00 - H7.1
Mutual influence of precipitation and of Severe Plastic Deformation by Equal Channel Angular Pressing of a Al-4%Cu alloy: tensile behavior and precipitation kinetics
Vitor Luiz Sordi, Erika Fernanda Prados[1], Maurizio Ferrante; [1]Escola Politécnica da Universidade de São Paulo

11:15 - H7.2
Improving tensile strength and ductility of grade 2 Ti by two-step severe plastic deformation.
Vitor Luiz Sordi, Anibal de Andrade Mendes Filho, Megumi Kawasaki, Maurizio Ferrante, Terence G. Langdon

11:30 - H7.3
Microstructural comparison between two deformation methods applied in 600 nickel alloy
Waldemar Alfredo Monteiro[1], Luciana Ventavele da Silva, Arnaldo Homobono Paes de Andrade, Waldemar Alfredo Monteiro[1]; [1]Instituto de Pesquisas Energéticas E Nucleares

11:45 - H7.4
Quantitative Parameters of Fracture Toughness Analysis by Digital Image Processing
Pietro Carelli R. O. Caltabiano[1], Paulo H. S. Rosa, Luis Rogerio de Oliveira Hein; [1]Faculdade de Engenharia de Guaratingueta

12:00 - H7.5
Effects of divider orientation split-out on fracture toughness
Juan E. Perez Ipiña, Ivan Korin

POSTER PRESENTATIONS

WEDNESDAY, SEPTEMBER 28TH

SESSION SP3
16:00 - 18:00 - Exhibition Hall

SP3-H1 - Fe – C – Mn – Si – Cr Alloy characterization – tempering curve and tempered martensite embrittlement
José Benedito Marcomini[1], Helio Goldenstein[1]; [1]Escola Politécnica da Universidade de São Paulo

SP3-H2 - Microstructure and mechanical properties of 300M steel after isothermal and intercritical heat treatments
Roberto Masato Anazawa[1], Antonio Jorge Abdalla, Tomaz Manabu Hashimoto, Marcelo Dos Santos Pereira; [1]Instituto de Estudos Avançados do Departamento de Ciência E Tecnologia Aeroespacial

SP3-H3 - Modeling plastic flow curves of austenitic stainless steel ISO 5832-9 used in orthopedic applications
Eden Santos Santos[1], Regina Celia Sousa, Jose Maria Cabrera, Oscar Balancin; [1]Universidade Federal de São Carlos

SP3-H4 - Evaluation of 2,4-dinitrophenylhydrazine dissolved in microemulsion system in inhibiting corrosion in AISI 1020 steel in saline
Gineide Conceição Dos Anjos[1], Cássia Carvalho de Almeida, Ciro José Rodrigues, Dulce Maria Araújo Melo, Carlos Alberto Martínez-Huitle, Maria Aparecida Maciel; [1]Universidade Federal do Rio

Grande do Norte

SP3-H5 - Kinetics of the Cu_2AlMn phase formation in the Cu-9% Al alloy with Ag and Mn additions

Camila Maria Andrade Dos Santos[1], Antonio Tallarico Vicente Adorno, Thaisa Mary Carvalho, Aroldo Geraldo Magdalena[2], Ricardo Alexandre Galdino da Silva; [1]Universidade Estadual Paulista "júlio de Mesquita Filho" (Unesp), [2]Instituto de Quimica Unesp

SP3-H6 - Gamma prime shape evolution during heat treatments of MAR-M247(Nb) superalloy

Renato Baldan[1], Carlos Angelo Nunes, Gilberto Carvalho Coelho, Paulo Ricardo Soares Azevedo Silva; [1]Escola de Engenharia de Lorena - Universidade de São Paulo

SP3-H7 - Structure and properties of a Cu-13.8%Al-4%Ni alloy submitted to quenching and deformation

Anatoliy Nikolaevich Matlakhov[1], Fábio de Oliveira Braga, Lioudmila Aleksandrovna Matlakhova[1], Carlos José de Araújo; [1]Universidade Estadual do Norte Fluminense Darcy Ribeiro

SP3-H8 - Phase transitions on continuous heating of the martensitic Cu-9wt.%Al-4wt.%Mn alloywith Ag additions

Aroldo Geraldo Magdalena[1], Antonio Tallarico Vicente Adorno, Thaisa Mary Carvalho, Camila Maria Andrade Dos Santos[2], Samarah Vargas Harb, Ricardo Alexandre Galdino da Silva; [1]Instituto de Quimica Unesp, [2]Universidade Estadual Paulista "júlio de Mesquita Filho" (Unesp)

SP3-H9 - β phase formation in the Cu-10wt.%Al alloy with Ag additions

Thaisa Mary Carvalho, Antonio Tallarico Vicente Adorno, Aroldo Geraldo Magdalena[1], Ricardo Alexandre Galdino da Silva, Camila Maria Andrade Dos Santos[2]; [1]Instituto de Quimica Unesp, [2]Universidade Estadual Paulista "júlio de Mesquita Filho" (Unesp)

SP3-H10 - Dual phase steels for Stamped Parts

Marcos Castro[1]; [1]Universidade Presbiteriana Mackenzie

SP3-H11 - Precipitation Behavior Analysis of Nanostructured Cu-Co Alloys Produced by Chemical Route Synthesis

Natasha Midori Suguihiro[1], Ivan Guillermo Solórzano-Naranjo; [1]Pontifícia Universidade Católica do Rio de Janeiro

SP3-H12 - Cold deformation effect on the microstructures and mechanical propertiesof AISI 301LN and 316L stainless steels

Paulo Maria Oliveira Silva, Mairton Cavalcante Romeu[1,2], Ronaldo Cristino Mariano, Bruno Sousa Araújo; [1]Instituto Federal de Educação, Ciência E Tecnologia do Ceará, [2]Universidade Federal do Ceará

SP3-H13 - Characterization of iron-doped CeO2-MnOx catalyst synthetized by the method of polymeric precursor

Erik Benigno Grisi de Araújo Fulgêncio[1], Ingrid Dantas Silva, André Luíz Araújo Caetano, Claúdia Menegaz Zaccaron Cristiano, Rodrigo Cristiano, Regiane de Cássia Maritan Ugulinode Araújo; [1]Universidade Federal da Paraíba

SP3-H14 - Computer Simulation In Cylinder Line Of The Centrifugal Casted Aluminum-Silicon Alloy

Valter Barragan Neto

SP3-H15 - Design, Construction and Performance of an Equal ChannelAngular Pressing Die Dedicated to Texture Alteration of AlAA1050 Sheets

Phillip Springer[1], Jose Benaque Rubert, Maurizio Ferrante; [1]Universidade Federal de São Carlos - Campus: São Carlos

SP3-H16 - On the application of the classical stress analysis for compliance-based calibration in cracked DC(T) specimens

Verona Biancardi Oliveira[1], Jorge Alberto Durán; [1]Escola de Engenharia de Lorena - Universidade de São Paulo

SP3-H17 - Characterization of porous tungsten obtaining process, applied to the dispenser thermionic cathode for microwave tube technology.

Artur Guazzelli Leme Silva[1], Frank Ferrer Sene, Cláudio Costa Motta; [1]Centro Tecnológico da Marinha Em São Paulo

SP3-H18 - Evaluation of the space holder content in obtaining titanium scaffolds.

José Luiz Minatti[1], Gabriel Delaneze Beloque Abib, Durval Rodrigues Júnior; [1]Demar/eel-Usp, Sp

SP3-H19 - Study of the production of Ti-13Nb-13Zr powder from the solid melted alloy using high energy ball milling.

José Luiz Minatti[1], Marília Vasconcellos Agnesini, Douglas Libraiz de Matos, Sandra Giacomin Schneider, Durval Rodrigues Júnior; [1]Demar/eel-Usp, Sp

SP3-H20 - Influence of Cold Rolling in Rectangular Wires of Austenitic Stainless Steel

Rodrigo Santos Messner[1], André Itman Filho; [1]Instituto Federal de Educação, Ciência E Tecnologia do Espírito Santo

SP3-H21 - Thermomechanical Characterization of

a CFRP-NiTi Composite Active
Zoroastro Torres Vilar, Artur Soares Cavalcanti Leal, Abdias Gomes Dos Santos, Maurilio Beutrão D'albuquerquea Cavalcante, Carlos José de Araujo

SP3-H22 - Comparative study of nanoindentation on melt-spun ribbon and bulk metallic glass of $Cu_{56}Zr_{31}Ti_{13}$ alloy
Luis César Rodríguez Aliaga

SP3-H23 - Secondary Graphitization in Gray Cast Iron
Amanda Souza Oliveira Pimentel[1], Wilson Luiz Guesser, Helio Goldenstein[2]; [1]Universidade do Estado de Santa Catarina, [2]Escola Politécnica da Universidade de São Paulo

SP3-H24 - Evaluation of the tribological behavior of sensitized austenitic stainless steel
Guilherme Alexandre Zeferino[1], Elaine Manganelli Guidi[1], Angela Beatriz Coelho Arnt, Cleber Pereira Fenili, Marcio Roberto da Rocha; [1]Universidade do Extremo Sul Catarinense

SP3-H25 - Phase transitions in the Cu-22.49at.%Al-10.01at%Mn-1.53at.%Ag alloy
Ricardo Alexandre Galdino da Silva, Sergio Gama, Antonio Tallarico Vicente Adorno, Thaisa Mary Carvalho, Aroldo Geraldo Magdalena[1], Camila Maria Andrade Dos Santos[2]; [1]Instituto de Quimica Unesp, [2]Universidade Estadual Paulista "júlio de Mesquita Filho" (Unesp)

SP3-H26 - Characterization of oxides formed during hot rolling of steel
Pedro Henrique Damião Daló[1], José Milton Gabriel Lopes, Fernando Vernilli Júnior, Bruno Vidal Almeida; [1]Escola de Engenharia de Lorena - Usp

SP3-H27 - Quantification of delta phase present in Inconel 718 subjected to thermomechanical treatment and representation of data by type of triaxial diagrams
José Eduardo Fonseca, Russel Lysyk, Douglas Demori, Afonso Reguly

SP3-H28 - Simulation Of Electrified Three-Dimensional Microsctructure Used For Retention Voc´S
Lilian Marques Silva[1], Eik Tenório[2]; [1]Universidade Paulista, [2]Faculdade de Tecnologia de Tatuí

SP3-H29 - Evaluation of the Corrosivity of Industrial and Urban Environment In the West Zone of Rio de Janeiro
José Roberto Sá de Oliveira[1,2], Carlos Alberto Martins Ferreira[2]; [1]Centro Universitário Estadual da Zona Oeste, [2]Thyssenkrupp Csa Siderúrgica do Atlântico

SP3-H30 - Characteristics of passive films growth on shape memory stainless steels
Carlos Alberto Della Rovere, José Henrique Alano, Rodrigo Silva, Pedro Augusto de Paula Nascente[1], Jorge Otubo, Sebastião Elias Kuri; [1]Universidade Federal de São Carlos

SP3-H31 - Forging press beam failure analysis and material selection
Cristiane Ramos Santos, Davi Costa Campos, Emerson Andrade Monteiro, Fellipe Maia Souza, Willem Vieira Nascimento, Sandro Griza, Telmo Roberto Strohaecker

SP3-H32 - Microtomography inspection in microalloyed steels
Inaya Lima[1], Gabriela Ribeiro Pereira, Edson Moreira Vasques, Luis Chad, Marcos Ponciano Souza, Robson Manao, Ricardo Tadeu Lopes; [1]Universidade Federal do Rio de Janeiro

SP3-H33 - Corrosion evaluation of austenitic stainless steel 316L microstructures due to different heat treatment conditions
Marcio Jose Rosales[1], Renan Henrique Savio, Osmar Roberto Bagnato; [1]Laboratório Nacional de Luz Sincrotron

SP3-H34 - TIG welding processes studies in recrystallized niobium for high vacuum applications
Ronaldo Gabriel Silva, Marcio Jose Rosales[1], Osmar Roberto Bagnato, Felipe Eduardo Manoel; [1]Laboratório Nacional de Luz Sincrotron

SP3-H35 - Control of silver nanoparticles morphology using light emission diodes.
Jamil Saade, Josivandro do Nascimento Silva[1], Cid Bartolomeu de Araújo; [1]Universidade Federal de Pernambuco

SP3-H36 - The Influence of Copper Phtalocyanine on the Conductivity and Activation Energy of PPS
Edinilton Morais Cavalcante[1], Rosmary Alves Magalhães, Monica Regina Scaramuza Lima; [1]Universidade Estadual Paulista "júlio de Mesquita Filho" - Campus Ilha Solteira

SP3-H37 - One-stepsynthesis of Ag nanoprisms with control of the nanoparticles dimensions
Jamil Saade, Josivandro do Nascimento Silva[1], Patrícia Maria de Albuquerque Farias, Cid Bartolomeu de Araújo; [1]Universidade Federal de Pernambuco

SP3-H38 - Dispersion of hydroxyapatite in 316L stainless steel for biomedical applications.
João Carlos da Silva[1], Fernando Vernilli Júnior, Gilbert Silva; [1]Escola de Engenharia de Lorena - Usp

SP3-H39 - Temper Embrittlement in Carbon and Low Alloy Steels

Thigo Paulino Tranin, Carlos Roberto Xavier, Rosinei Batista Ribeiro

SP3-H40 - Microstructural characteristics and corrosion behavior of a Ni-based superalloy in aggressive environments

José Henrique Alano, Carlos Alberto Della Rovere, Sebastião Elias Kuri

SP3-H41 - Correlation Of Cooling Rates With The Percentage Ofphases And Mechanical Characteristics Through The Jominy Test

Saul Luchtemberg Bitencourt[1], César Rolando Nunura, Jaime Alvares Spim; [1]Universidade Federal do Rio Grande do Sul

SP3-H42 - Analysis Of Influence Of The Temperature Tempering Process Of Heat Treatment Of Steel Sae 5160.

Patrich Daniel Damasseno[1], Saul Luchtemberg Bitencourt[1], Guilherme Tkotz, Jaime Alvarez Spim; [1]Universidade Federal do Rio Grande do Sul

SP3-H43 - Effects of the heating rate in the transformation phase of the alloy Ti-6Al-2Sn-4Zr-6MO in the dilatometry

Volney Mattos de Oliveira

SP3-H44 - Use of steel waste in the pavers 's manufacture

Cinthia Brito Fonseca[1], Rodrigo Bergami Trevizani[1], Fabrício Moura Dias; [1]Centro Universitário do Leste de Minas Gerais

SP3-H45 - Sintering of austenitic steel-reinforced WC-10%Co for applications in drilling tools

Alessandra Agna Araújo Dos Santos[1], Marciano Furukava, Márcio Furukava, Uilame Umbelino Gomes, Roberto Cavalcante Menezes, Igor Jefferson Araújo[1]; [1]Universidade Federal do Rio Grande do Norte

SP3-H46 - Characterization of precipitate FeyAlx in alloy AA3003 by method of X-ray diffraction

João Genuíno Júnior, Josy Oliveira[1], Raphael Félix Rezende, Igor Jefferson Araújo[1], Sérgio Rodrigues Barra; [1]Universidade Federal do Rio Grande do Norte

SP3-H47 - Influence of cooling rate in the interlayer and the Mechanical Properties of Steels Common Perlite

Ubirajara Domingos Castro[1]; [1]Centro Universitário Newton Paiva

SP3-H48 - Sputtering onto Liquids: From Nanoparticles to Thin Films

Heberton Wender, Renato Vitalino Gonçalves[1], Adriano Friedrich Feil[1], Pedro Migowski, Jairton Dupont, Sergio Ribeiro Teixeira[1]; [1]Universidade Federal do Rio Grande do Sul

SP3-H49 - Liquid phase sintering of self-lubricating Fe-hBN composites

Gisele Hammes, Aloísio Nelmo Klein[1], Cristiano Binder, Markus Vinicius Silveira, Rodrigo Pereira Becker[1]; [1]Universidade Federal de Santa Catarina

SP3-H50 - Effect of additions of Si on microstructure and elastic modulus of Ti-Nb-based alloys for biomedical applications

Andrea Macleybiane Gois Tavares[1], Dárcio Hersch Gomes de Souza Sá[1], Sandra Andreia Stwart de Araujo Souza, Wilton Walter Batista; [1]Universidade Federal de Sergipe

SP3-H51 - Fatigue Strength of alfa + beta and beta Ti-6Al-4V Alloys

Silvando Vieira Dos Santos, Dárcio Hersch Gomes de Souza Sá[1], Sandro Griza; [1]Universidade Federal de Sergipe

SP3-H52 - Structure and properties of quenched and cyclic deformed Ti-(6-15%)Mo alloys

Márcia Almeida Silva, Lioudmila Aleksandrovna Matlakhova[1], Anatoliy Nikolaevich Matlakhov[1], Herval Ramos Paes Júnior, Boris Andreevich Goncharenko; [1]Universidade Estadual do Norte Fluminense Darcy Ribeiro

SP3-H53 - Mechanical Behavior and Fracture of a Monocrystalline Cu-13.7%Al-4.2%Ni Alloy Subjected to 500 Cycles of Thermal Cycling Treatment Under Loads

Lioudmila Aleksandrovna Matlakhova[1], Elaine Cristina Pereira Oliveira, Anatoliy Nikolaevich Matlakhov[1]; [1]Universidade Estadual do Norte Fluminense Darcy Ribeiro

SYMPOSIUM I

Sol-gel route to prepare new inorganic, hybrid and multifunctional materials

Chairs

Márcia Russman Gallas (IF-UFRGS)
Tania Maria Haas Costa (IQ-UFRGS)
Fabiano S. Rodembush (IQ-UFRGS)
Leandra F. Campo (IQ-UFRGS)
Sandra Helena Pulcinelli (IQ-UNESP)
Sidney J. L. Ribeiro (IQ-UNESP)
Marcia Carvalho de Abreu Fantini (IF-USP/SP)
Yoshitaka Gushikem (IQ-UNICAMP)

ORAL PRESENTATIONS

* Invited Lecture

MONDAY , SEPTEMBER 26TH

SESSION I1
09:30 - 10:30 - Room 23

09:30 - I1.1*

Silica-organic hybrid materials: characterization of energetic heterogeneity and cooperativity effects on the base of surface probing

Inna Khristenko, Andrey Baraban, Anton Panteleimonov, Yoshitaka Gushikem[1], Yuriy Kholin[2]; [1]Universidade Estadual de Campinas, [2]V.n. Karazin Kharkiv National University

10:00 - I1.2

In situ immobilization of cobalt phthalocyanine on the mesoporous carbon ceramic SiO_2/C prepared by the sol–gel process: application as an oxalic acid sensor

Abdur Rahim[1]; [1]State University Of Campinas

10:15 - I1.3

Comparative study of two electrochemical sensors for nitrite based on gold nanoparticles/silsesquioxane dispersed on Al/silica matrix

Eliana Weber de Menezes[1,2], Leliz Ticona Arenas, Michael Ramos Nunes[3], José Ribeiro Gregório, Yoshitaka Gushikem[4], Silvio Luis Pereira Dias, Irene Teresinha Santos Garcia[4]; [1]Instituto de Química, [2]Institute Of Chemistry, [3]Universidade Federal do Rio Grande do Sul, [4]Universidade Estadual de Campinas

SESSION I2
11:00 - 12:15 - Room 23

11:00 - I2.1*

Preparation, Structure and Properties of Hybrid Organic-Inorganic Materials for New Applications

Karim Dahmouche[1]; [1]Universidade Federal do Rio de Janeiro

11:30 - I2.2

Functionalization of cubic mesoporous silica with alkoxysilane goups for drug delivery

Gracielle Ferreira Andrade[1], Edésia Martins Barros de Sousa[2]; [1]Universidade Federal de Minas Gerais, [2]Centro de Desenvolvimento da Tecnologia Nuclear

11:45 - I2.3

The effect of bioactive glass nanoparticles on the behavior of human periodontal ligamentcells

Sandhra Maria Carvalho, Agda Aline Oliveira, Lídia Maria Andrade, Maria Fátima Leite, Marivalda Magalhães Pereira

12:00 - I2.4

Magnesium Oxide Macroporous Sintered Membranes

Leydi Del Rocío Silva Calpa[1], Johnny Huerta Flores, Maria Isabel Pais da Silva, Sidnei Paciornik[1], Roberto R de Avillez[1]; [1]Pontifícia Universidade Católica do Rio de Janeiro

SESSION I3
15:00 - 16:00 - Room 23

15:00 - I3.1*

Organic–inorganic hybrid materials for nanothermometry, solar energy conversion and integrated optics

Luis Dias Carlos[1]; [1]University Of Aveiro

15:30 - I3.2

Energy up-conversion in organic-inorganic hosts containing YVO_4:Yb:Tm:Ho:Er nanoparticles

Sidney José Lima Ribeiro

15:45 - I3.3

H_2-TPR Characterisation of Cobalt Impregnated MCM-48

Luana Vohlbrecht de Souza[1], Marcius Andrei Ullmann[1], Jose Augusto Dos Santos Junior, Wilhelm Martin Wallau; [1]Universidade Federal de Pelotas

TUESDAY , SEPTEMBER 27TH

SESSION I4
09:30 - 10:30 - Room 23

09:30 - I4.1*

Some uses of hydrolytic and non-hydrolytic sol-gel process by the research group of Unifran

Katia Jorge Ciuffi[1], Eduardo José Nassar, Emerson Henrique de Faria, Lucas Alonso Rocha[1], Paulo Sérgio Calefi; [1]Universidade de Franca

10:00 - I4.2

Surfactants for CNTs dispersion in zirconia-based ceramic matrix obtained by sol-gel method

Voltaire de Oliveira Almeida[1], Naira Maria Balzaretti[2], Tania Maria Haas Costa[2], Geraldo Beyer Machado[3], Patrícia Rodrigues da Silva[3], Marcia Russman Gallas; [1]Federal University Of Rio Grande do Sul, [2]Universidade Federal do Rio Grande do Sul, [3]Institute Of Chemistry

10:15 - I4.3

Ceria-Zirconia Nanopowder from Sol-Gel Route

Maria do Carmo Andrade Nono

SESSION I5
11:00 - 12:30 - Room 23

11:00 - I5.1*

Ionic silica based hybrid materials

Edilson V Benvenutti[1]; [1]Institute Of Chemistry

11:30 - I5.2

Surfactant-based dispersant for multiwall carbon nanotubes to prepare alumina composites by sol-gel method

Patrícia Rodrigues da Silva[1], Giovani Ritta Rodrigues, Tania Maria Haas Costa[2], Geraldo Beyer Machado[3], Edilson V Benvenutti[3], Marcia Russman Gallas; [1]Federal University Of Rio Grande do Sul, [2]Universidade Federal do Rio Grande do Sul, [3]Institute Of Chemistry

11:45 - I5.3

Hybrid xerogels catalyst containing gold nanoparticles stabilized by ionic silsesquioxane containing the 1,4-diazoniabicyclo[2.2.2]octane group

Michael Ramos Nunes[1,2], Jairton Dupont, Marcelo Barbalho Pereira[3], Tania Maria Haas Costa[3], Edilson Valmir Benvenutti, Richard Landers; [1]Universidade Federal do Rio Grande do Sul, [2]Institute Of Chemistry, [3]Institute Of Physics - Ufrgs

12:00 - I5.4

Weak polyion multilayer assisted in-situ sol-gel synthesis as a route towards a plasmonic Ag/TiO_2 photocatalyst

Manca Logar, BošTjan Jančar, SašO ŠTurm, Danilo Suvorov

12:15 - I5.5

Precursor modification in sol-gel-derived Bi-based thin films

Asja Veber[1], Spela Kunej, Danilo Suvorov; [1]Jozef Stefan Institute

WEDNESDAY, SEPTEMBER 28TH

SESSION I6
09:30 - 10:15 - Room 23

09:30 - I6.1

Sol-gel route to prepare well-ordered nanotubes/wires with anodic aluminum oxide template

Luiz Augusto Sousa de Oliveira[1], Kleber Roberto Pirota; [1]Universidade Estadual de Campinas

09:45 - I6.2

Silicon oxycarbide (SiOC) and titanium oxycarbide(SiTiOC) derived-glasses from polysiloxanes prepared by the Sol-gel process

Aloízio Geraldo de Araújo Júnior, Breno Ferreira de Sousa[1], Ana Lúcia Exner Godoy, Tulio Hallak Panzera, Marco Antonio Schiavon[1]; [1]Universidade Federal de São João Del Rei

10:00 - I6.3

Synthesis of fluoroapatite- hydroxyapatite nanoparticles and toxicity investigations

Khalil Pourshamsian, Rahim Jahandideh, Esmaeil Biazar[1]; [1]Islamic Azad University- Tonekabon Branch

SESSION I7
11:00 - 12:15 - Room 23

11:00 - I7.1*

Unified Mechanism of Formation, Aggregation and Growth of ZnO Quantum Dots

Celso Valentim Santilli[1]; [1]Universidade Estadual Paulista - Araraquara

11:30 - I7.2

New luminescent materials based on iridium complexes incorporated in mesoporous silica hosts: In situ versus topotactic approaches

Andrea Simone Stucchi de Camargo[1], Moema de Barros E Silva Botelho, Jesus Miguel Fernández-Hernández, Thiago Branquinho de Queiroz, Hellmut Eckert[1], Luisa de Cola; [1]Universidade de São Paulo - Instituto de Física de São Carlos

11:45 - I7.3

Influence of impurities on the luminescence of erbium doped barium titanate nanophosphors

Geovana Dresch Webler[1], Maximiliano J. Moreno Zapata, Glauco S. Maciel, Amitava . Patra, Jandir Miguel Hickmann, Márcio André Rodrigues Cavalcanti Alencar; [1]Universidade Federal de Alagoas

12:00 - I7.4

Effect of silica surface on luminescence properties of Tb^{3+}-glutamic acid

Juliana Jorge[1], José Maurício Almeida Caiut, Jeannette Dexpert-Ghys, Marc Verelst, Gustavo Rocha de Castro, Marco Antonio Utrera Martines; [1]Universidade Federal de Mato Grosso do Sul

POSTER PRESENTATIONS

TUESDAY , SEPTEMBER 27TH

SESSION SP2
14:00 - 16:00 - Exhibition Hall

SP2-I1 - High surface area silica/titania materials
Tania Maria Haas Costa[1], Carlos Fabiano Alteneta Garss, Edilson Valmir Benvenutti; [1]Universidade Federal do Rio Grande do Sul

SP2-I2 - Preparation and Characterization of Silica-Based Organic-Inorganic Hybrid Sorbents Modified with Iodine
Júnia Soares Nogueira Chagas[1], Eduardo Henrique Martins Nunes, Wander Luiz Vasconcelos; [1]Universidade Federal de Minas Gerais

SP2-I3 - Effect of pore texture on catalytic properties of sulfated zirconia foams prepared by sol-gel process
Marinalva Aparecida Alves Rosa[1], Leandro Martins, Celso Valentim Santilli[2], Sandra Helena Pulcinelli[3]; [1]Instituto de Quimica Araraquara - Unesp, [2]Universidade Estadual Paulista - Araraquara, [3]Chemistry Institute Of Araraquara

SP2-I4 - Effect of the Nature of Swelling Solvent on Nanostructure and Properties of Sol-Gel derived Proton-Conducting SPEEK and Zirconia-SPEEK Hybrid Membranes for Direct Alcohol Fuel Cells
Karim Dahmouche[1], Carla Akimi Kawaguti, Ailton de Souza Gomes; [1]Universidade Federal do Rio de Janeiro

SP2-I5 - Aynthesis of Al_2O_3 nanosized powders via sol-gel method y_2o_3 added to commercial
Suzana Arleno Souza Santos, Eduardo Sousa Lima, Célio Albano da Costa Neto, Roberto R de Avillez[1]; [1]Pontifícia Universidade Católica do Rio de Janeiro

SP2-I6 - Effect of Drug Content on Structure and Drug Release Mechanisms of Sol-Gel derived Siloxane-PMMA Hybrids Materials encapsulating Rifampicine
Karim Dahmouche[1], Bianca Ferreira, Felipe Siqueira Pais[1], Caio Marcio Paranhos da Silva[2], Ailton de Souza Gomes; [1]Universidade Federal do Rio de Janeiro, [2]Universidade Federal de São Carlos

SP2-I7 - Surfactants mixture as pores template in the sol-gel processing of zirconia ceramic foams
Marinalva Aparecida Alves Rosa[1], Leandro Martins, Celso Valentim Santilli[2], Sandra Helena Pulcinelli[3]; [1]Instituto de Quimica Araraquara - Unesp, [2]Universidade Estadual Paulista - Araraquara, [3]Chemistry Institute Of Araraquara

SP2-I8 - Simultaneous determination of hydroquinone, catechol and resorcinol on the Nb_2O_5 thin film on the carbon ceramic material $SiO_2/C/Nb_2O_5$ used as an electrochemical sensor
Thiago da Cruz Canevari, Leliz Ticona Arenas, Richard Landers, Yoshitaka Gushikem[1]; [1]Universidade Estadual de Campinas

SP2-I9 - Polymeric precursors for synthesis of inorganic ceramic pigments based on chromium and iron deposited on TiO_2 and their characterizations.
Everlânia Maria da Silva[1], Sheila Bernhard Galvao[1], Dárcia Sâmia Santos Moura[1], Carlos Alberto Paskocimas; [1]Universidade Federal do Rio Grande do Norte

SP2-I10 - Effect of Clay Incorporation on the Structure and Properties of Ureasil-Polyether Hybrids
Celso Ricardo Nogueira Jesus, Eduardo Ferreira Molina, Sandra Helena Pulcinelli[1], Celso Valentim Santilli[2]; [1]Chemistry Institute Of Araraquara, [2]Universidade Estadual Paulista - Araraquara

SP2-I11 - Alumina foams with a hierarchal pore structure
Aline Ribeiro Passos[1], Leandro Martins, Sandra Helena Pulcinelli[2], Celso Valentim Santilli[3]; [1]Instiruto de Quimica Unesp, [2]Chemistry Institute Of Araraquara, [3]Universidade Estadual Paulista - Araraquara

SP2-I12 - Study of Iron Nanoparticles in Ureasil-Polyether Hybrid Matrix for Controlled Drug Delivery Systems.
Eduardo Ferreira Molina, Peter Hammer, Sandra Helena Pulcinelli[1], Celso Valentim Santilli[2]; [1]Chemistry Institute Of Araraquara, [2]Universidade Estadual Paulista - Araraquara

SP2-I13 - TiO_2 nanoparticles in liquid crystal formulations for sunscreen and drug delivery
Renata Cristina Kiatkoski Kaminski[1], Eloísa Berbel Manaia, Marina Paiva Abuçafi, Christiane Pienna Soares, Celso Valentim Santilli[2], Sandra Helena Pulcinelli[3], Leila Aparecida Chiavacci[4]; [1]Instituto de Quimica de Araraquara-Unesp, [2]Universidade Estadual Paulista - Araraquara, [3]Chemistry Institute Of Araraquara, [4]Faculdade de Ciências Farmacêuticas

SP2-I14 - Efect of complexing and hydrolyses ratios on the nanostructure of sol-gel derived titania

Renata Cristina Kiatkoski Kaminski[1], Sandra Helena Pulcinelli[2], Valérie Briois, Celso Valentim Santilli[3]; [1]Instituto de Quimica de Araraquara-Unesp, [2]Chemistry Institute Of Araraquara, [3]Universidade Estadual Paulista - Araraquara

SP2-I15 - Thermal catalytic properties of Mn supported on porous nanostructures and technological applications of them

Marcius Andrei Ullmann[1], Andresssa da Cruz Schneid[1], Daniela . Bianchini[1]; [1]Universidade Federal de Pelotas

SP2-I16 - Correlation of EDX, RBS and AAS for Mn determination in nanostructures obtained with sol-gel process

Andresssa da Cruz Schneid[1], Marcius Andrei Ullmann[1], Adriane Medeiros Nunes, Fernanda Chiarello Stedile, Daniela . Bianchini[1]; [1]Universidade Federal de Pelotas

SP2-I17 - Effect of Siloxane Phase Morphology on Structure and Properties of new Epoxy-Siloxane Nanocomposites prepared by Sol-Gel Process

Karim Dahmouche[1], Ana Paula Solymossy, Bluma Guenther Soares; [1]Universidade Federal do Rio de Janeiro

SP2-I18 - Preparation and Photochromic Behavior Study of Ormosil-Polyoxometalate Hybrid films doped with ZnO Nanoparticles

Elias Paiva Ferreira Neto[1], Ubirajara Pereira Rodrigues Filho; [1]Universidade de São Paulo

SP2-I19 - Synthesis and characterization of SBA-15 chemically modified with 4,4'-bipyridine alkoxysilane derivatives. Study of the $CuCl_2$ adsorption from ethanol solution

Natalia Fattori[1], Camila Marchetti Maroneze[1], Hérica Aparecida Magosso, Yoshitaka Gushikem[1]; [1]Universidade Estadual de Campinas

SP2-I20 - Synthesis and optical properties of polythiophene-silica hybrid materials

Vanessa Cristina Gonçalves[1], Celso Valentim Santilli[2], Sandra Helena Pulcinelli[3]; [1]Instituto de Química, [2]Universidade Estadual Paulista - Araraquara, [3]Chemistry Institute Of Araraquara

SP2-I21 - Hydrophilic or Hydrophobic, Anti-Reflective Aerogel Coatings

Kelly Cristine Camargo[1], Alexandre Fassini Michels, Marcelo Barbalho Pereira[1], Fabiano Severo Rodembusch[2], Rafael Otoniel Cunha, Flavio Horowitz; [1]Institute Of Physics - Ufrgs, [2]Federal University Of Rio Grande do Sul

SP2-I22 - Hybrid Proton Conducting Membrane Based on SPEEK and Modified Silica

Florêncio Gomes de Ramos Filho[1], Karim Dahmouche, Patrick Judenstein, Ailton de Souza Gomes; [1]Universidade Estadual da Zona Oeste

SP2-I23 - MoO_3 thin films prepared by the sol-gel process

Rafaela Moreira Javier Lemos[1], Franciani Sentanin, Agnieszka Pawlicka, Gian Paganotto, César Antonio Oropesa Avellaneda, Neftalí Lenin Villarreal Carreño; [1]Universidade Federal de Pelotas

SP2-I24 - Preparation of modified silica using sol-gel process

Gilmar Patrocinio Thim, Tiago Moreira Bastos Campos, Luciana de Simone Cividanes Coppio, Deborah Dibbern Brunelli, Kumiko K Sakane

SP2-I25 - Effect of Drug Content on Structure and Drug ReleaseMechanisms of Sol-Gel derived Siloxane-PPO HybridsMaterials encapsulating Propranolol Chloride

Ranielle Oliveira Silva[1], Karim Dahmouche[2], Caio Marcio Paranhos da Silva[3]; [1]Universidade Estadual da Zona Oeste, [2]Universidade Federal do Rio de Janeiro, [3]Universidade Federal de São Carlos

SP2-I26 - SiO_2, TiO_2 and SiO_2:TiO_2 matrices functionalized with Eu(btfa) complex

Wagner Eduardo Silva[1], Gilberto Fernandes Sá, Mônica Freire Belian[2], Ana Gabriela da Silva Bezerra[2], Roberta Felix de Oliveira[2]; [1]Universidade Federal de Pernambuco, [2]Universidade Federal Rural de Pernambuco

SP2-I27 - One-pot Synthesis of a Novel Crown Ether Polysiloxanes: Promising Solid State Ionophores

Mônica Freire Belian[1], Dilmo Marques Leotério, André Galembeck, Gilberto Fernandes Sá, Severino Alves Junior; [1]Universidade Federal Rural de Pernambuco

SP2-I28 - Structural investigation of Styrene-Butadiene Rubber and Laponite Nanocomposites by solid state ^{13}C NMR.

Tatiane Moraes Arantes[1], Emerson Rodrigues Camargo; [1]Universidade Federal de São Carlos

SP2-I29 - Protoporphyrin IX - SiO2/TiO2 material prepared by sol-gel process: synthesis, characterization and application in photochemistry.

Sheila Southgate de Oliveira[1], Rodrigo José Correa, Emerson Schwingel Ribeiro, Marcela Betta Olimpio Nascimento[1]; [1]Universidade Federal do Rio de Janeiro

SP2-I30 - Morphological transformations onto bioglass immersed in different aqueous media

Gilderman Silva Lázaro[1], Silmara Caldas Santos[1], Cristiane Xavier Resende, Ledjane Silva Barreto, Euler Araujo Dos Santos; [1]Universidade Federal de Sergipe

SP2-I31 - Catalytic performance of mesoporous silica-coated maghemite compounds .

Jediel Oliveira Damas, Gustavo Pimenta Ricci, Robson Rosa da Silva, Sidney Jose Ribeiro, Marcio Luis Silva, Omar Jose de Lima, Lucas Alonso Rocha[1]; [1]Universidade de Franca

SP2-I32 - Formation of TiO_2 ceramic foams from the integration of the sol-gel method and ionic/nonionic surfactants micelles

Renata Ferreira Lins[1], Celso Valentim Santilli[2], Sandra Helena Pulcinelli[3]; [1]Instituto de Quimica Unesp, [2]Universidade Estadual Paulista - Araraquara, [3]Chemistry Institute Of Araraquara

SP2-I33 - New Bridged polysilsesquioxane for the controlled delivery of Mesalamine

Fozia Rehman Khan[1], Pedro Luiz Onófrio Volpe; [1]Universidade Estadual de Campinas

SP2-I34 - Influence of surface modification of mesoporous silica on the photoluminescence of a europium complex

Roberto Medeiros Silveira[1], Gustavo Rocha de Castro, Marco Antonio Utrera Martines; [1]Universidade Federal de Mato Grosso do Sul

SP2-I35 - Controlled release study of rutin impregnated into mesoporous silica

Bárbara Medeiros Dantas[1], Everton Rodrigues de Almeida, Fernanda Rodrigues Garcez, Walmir Silva Garcez, Gustavo Rocha de Castro, Cristiane Justino do Nascimento, Marco Antonio Utrera Martines; [1]Universidade Federal de Mato Grosso do Sul

SP2-I36 - Study of organoclay incorporation on dispersion and release kinetics of rifampicine encapsulated in Siloxane-PMMA hybrid materials.

João Felipe Mathiazi Pereira de Souza, Karim Dahmouche[1], Caio Marcio Paranhos da Silva[2], Ailton de Souza Gomes; [1]Universidade Federal do Rio de Janeiro, [2]Universidade Federal de São Carlos

SP2-I37 - Study of immobilization of the porphyrin in a new SiO2/Nb2O5/ZnO material obtained by sol-gel process for use in photodynamic therapy.

Marcela Betta Olimpio Nascimento[1], Sheila Southgate de Oliveira[1], Rodrigo José Correa, Emerson Schwingel Ribeiro; [1]Universidade Federal do Rio de Janeiro

SP2-I38 - Development of geopolymers from coal bottom ash alkaline activation

Rozineide A. Antunes Boca Santa[1], Adriano Michael Bernardin, Humberto Gracher Riella, Nivaldo Cabral Kuhnen; [1]Universidade Federal de Santa Catarina

SP2-I39 - Hybrid mesoporous materials containing 1,4-diureylenebenzene moieties

Tania Maria Haas Costa[1], Sílvia Regina Grando, Edilson Valmir Benvenutti, Leandra Franciscato Campo; [1]Universidade Federal do Rio Grande do Sul

SP2-I40 - Sol-gel Synthesis of Glass Feldspathic

Shirleny Fontes Santos[1], Erica Vidaurre Senatore[2], Tsuneharu Ogasawara; [1]Centro Universitário Estadual da Zona Oeste, [2]Universidade Federal do Rio de Janeiro

SP2-I41 - TiO_2 anatase nanorods from faceted nanoparticles

Cleocir José Dalmaschio, Edson Roberto Leite, Elson Longo

SP2-I42 - Influence of molar ratio Tb^{3+}:Eu^{3+} on the structural and luminescent characteristics of mesoporous silica gel.

Renan Gustavo Coelho de Souza Reis[1], José Maurício Almeida Caiut, Samuel Leite Oliveira, Sidney José Lima Ribeiro, Marco Antonio Utrera Martines; [1]Universidade Federal do Mato Grosso do Sul

SP2-I43 - Synthesis of ordered mesoporous silica using Pluronic F-127 as structure-directing agent

Everton Rodrigues de Almeida, Roberto Medeiros Silveira[1], Gustavo Rocha de Castro, Marco Antonio Utrera Martines; [1]Universidade Federal de Mato Grosso do Sul

SP2-I44 - Luminescent material based on $Eu(TTA)_3(H_2O)_2$ complex incorporated into modified silica particles for biological applications

Ana Valéria Santos de Lourenço[1], Cláudia Akemi Kodaira, Eduardo Milton Ramos Sanchez, Maria Cláudia Felinto, Hiro Goto, Magnus Gidlund, Hermi Felinto Brito; [1]Instituto de Química - Usp

SP2-I45 - Phenol removal from aqueous solution by carbon xerogel

Gilmar Patrocinio Thim, Liana A Rodrigues, Manoel A Mendes, Aparecido R Coutinho, Maria Lucia Caetano Pinto da Silva

SP2-I46 - Photophysics of aminobenzazole dyes in silica-based hybrid materials

Fabiano Severo Rodembusch[1], Sílvia Regina Grando, Fabiano da Silveira Santos, Marcia Russman Gallas, Tania Maria Haas Costa[2], Edilson Valmir Benvenutti; [1]Federal University Of Rio Grande do Sul, [2]Universidade Federal do Rio Grande do Sul

SP2-I47 - Influence of the Eu^{3+} concentration

doped into gadolinium aluminate phosphor
Marcela Guedes Matos[1], Lucas Alonso Rocha[1], Emerson Henrique de Faria, Katia Jorge Ciuffi[1], Paulo Sérgio Calefi, Eduardo José Nassar; [1]Universidade de Franca

SP2-I48 - Temperature effect on the photoluminescent properties of the Eu^{3+} ion doped into the YVO_4 matrix
Marcela Guedes Matos[1], Michelle Saltarelli[1], Lucas Alonso Rocha[1], Emerson Henrique de Faria, Katia Jorge Ciuffi[1], Paulo Sérgio Calefi, Eduardo José Nassar; [1]Universidade de Franca

SP2-I49 - Influence of precursor type on the preparation of $YVO_4:Eu^{3+}$ by the hydrolytic sol-gel methodology.
Michelle Saltarelli[1], Marcela Guedes Matos[1], Emerson Henrique de Faria, Lucas Alonso Rocha[1], Katia Jorge Ciuffi[1], Paulo Sérgio Calefi, Eduardo José Nassar; [1]Universidade de Franca

SP2-I50 - Platinum Nanoparticles Supported On Ionic Liquids Modified- Silica Gel Applied in Hydrogenation Reactions
Carla Weber Scheeren[1], Lucas Foppa, Jairton Dupont; [1]Universidade Federal do Rio Grande

SP2-I51 - Bacterial cellulose/boehmite organic-inorganic hybrids
Denise Toledo Bonemer de Salvi[1], Hernane Silva Barud, José Maurício Almeida Caiut, Younés Messaddeq, Sidney José Lima Ribeiro; [1]Instituto de Química

SP2-I52 - Cerium doped organic-inorganic hybrid coatings applied for corrosion protection of metallic surfaces
Fábio Cesar Dos Santos[1], Peter Hammer, Sandra Helena Pulcinelli[2], Celso Valentim Santilli[3]; [1]Instituto de Quimica de Araraquara-Unesp, [2]Chemistry Institute Of Araraquara, [3]Universidade Estadual Paulista - Araraquara

SP2-I53 - Evaluation of the Photo Stability of Photochromic Ormosil-Polyoxometalate Hybrid films by FTIR
Luciana Valgas de Souza[1,2], Elias Paiva Ferreira Neto[3], Ubirajara Pereira Rodrigues Filho; [1]Universidade de São Paulo - Instituto de Química de São Carlos, [2]Instituto de Química de São Carlos, [3]Universidade de São Paulo

SP2-I54 - Kinetics study of hydrid of sugarcane bagasse cellulose and hydrous aluminium oxide
Luciana Pereira Silva[1], Maria Lucia Caetano Pinto da Silva; [1]Escola de Engenharia de Lorena - Universidade de São Paulo

SP2-I55 - Photosensitive nano-crystalline compound TiO_2:Si by sol-gel method and its use as a pollution-fighting agent
Marcos de Castro Carvalho[1], Elizabeth Lima Moreira, Eduardo Bessa Azevedo, Joana Mara Teixeira Santos; [1]Brazilian Center For Physical Research

SP2-I56 - Synthesis and Characterization by XRD and TEM of photochromic films doped with nanoparticles of Ormosils
Lidiane Patricia Gonçalves[1], Luciana Valgas de Souza[2,3], Ubirajara Pereira Rodrigues Filho; [1]Interunidades - Marteriais - Eesc/ifsc/iqsc, [2]Universidade de São Paulo - Instituto de Química de São Carlos, [3]Instituto de Química de São Carlos

SP2-I57 - Preparation and Characterization of Clay/Alpha-Nickel Hydroxide Nanocomposite
Marins Danczuk[1], Fauze Jacó Anaissi[1]; [1]Universidade Estadual do Centro Oeste do Paraná

SP2-I58 - Comparative study of the preparation of nanoparticles of alpha and beta nickel hydroxide by the sol-gel method
Marins Danczuk[1], Fauze Jacó Anaissi[1]; [1]Universidade Estadual do Centro Oeste do Paraná

SP2-I59 - EIS Evaluation of Sol-gel Coatings for Dental Implants
Alexandre Galio, Luciana Machado Rodrigues

SP2-I60 - Aluminium and Boron Modified Mesoporous Silica
Eduardo Vargas Pereira[1], Wilhelm Martin Wallau, Isabel Pinheiro Candia, Marcius Andrei Ullmann[1], Juliana Villela Maciel; [1]Universidade Federal de Pelotas

SP2-I61 - Synthesis and structural analysis of organic-inorganic hybrid materials using different solvents for controlled drug release
Leila Aparecida Chiavacci[1], Juliana Fernandes Mendes, Vanessa Cristina Gonçalves[2], Celso Valentim Santilli[3], Sandra Helena Pulcinelli[4]; [1]Faculdade de Ciências Farmacêuticas, [2]Instituto de Química, [3]Universidade Estadual Paulista - Araraquara, [4]Chemistry Institute Of Araraquara

SP2-I62 - Synthesis of Imines from Aldehydes and Modified Silica
Lara M.pereira Montenegro[1], Jordana Borges Griep, Fabiele Collovini Tavares, Daniela . Bianchini[1], Daniela Oliveira Hartwig, Raquel Guimarães Jacob; [1]Universidade Federal de Pelotas

SP2-I63 - Photocatalytic degradation of dyes with TiO_2: efficiency studies
Gislene Custódio, André Luis Pimenta de Faria,

Amanda Gleice da Silva, Paula Carvalho Corrêa, Reinaldo Trindade Proença, Jose Roberto Branco

SP2-I64 - Synthesis and characterization of Mo2O5-SiO2, WO3-SiO2, Cr2O3-SiO2 supports produced by the non-hydrolytic sol-gel process

João Henrique Zimnoch Dos Santos[1], Arthur Bernardes; [1]Universidade Federal do Rio Grande do Sul

SP2-I65 - Effect of the heat treatment conditions on the synthesis of Sr-hexaferrite

Ricardo Martínez García, Vitaliy Bilovol, Leandro M. Socolovsky[1,2]; [1]Universidad de Buenos Aires, [2]Consejo Nacional Investigaciones Científicas Y Tecnológicas

SP2-I66 - Synthesis and application of a sol-gel derived carbon ceramic electrode

Icaro Ariel Simon[1], Thiago da Cruz Canevari, Yoshitaka Gushikem[2], Richard Landers, Clarisse Maria Sartori Piatnicki, Leliz Ticona Arenas, Jacqueline Argüello da Silva; [1]Universidade Federal do Rio Grande do Sul, [2]Universidade Estadual de Campinas

WEDNESDAY, SEPTEMBER 28TH

SESSION SP3
16:00 - 18:00 - Exhibition Hall

SP3-I67 - Synteses of zeolites containing vanadium octahedral in crystallographic structure

Alex Silva Paula[1], Adriano de Vasconcellos, Marcus Vinicius Giotto, José Geraldo Nery; [1]Universidade Estadual Paulista Júlio de Mesquita Filho

SP3-I68 - Synthesis of molecular sieves containing molybdenium its structure

Alex Silva Paula[1], Lívia Maria Vargas, José Geraldo Nery; [1]Universidade Estadual Paulista Júlio de Mesquita Filho

SP3-I69 - Biocompatibility evaluation of siloxane-polyethylene hybrid membranes for implants by in vivo essays

Leila Aparecida Chiavacci[1], Leandro Lopes, Luciano Bertaco Pereira, Gabriel R Mortari, Elcio Marcantonio Jr., Luis Carlos Spolidoro, Rosemary Adriana C. Marcantonio; [1]Faculdade de Ciências Farmacêuticas

SP3-I70 - Macroscopic analysis of siloxane hybrid matrixes containing different drug concentrations.

Leandro Lopes, Sandra Helena Pulcinelli[1], Leila Aparecida Chiavacci[2], Shayene Cynthia Andrade de Almeida[3], Valerie Briois, Celso Valentim Santilli[4]; [1]Chemistry Institute Of Araraquara, [2]Faculdade de Ciências Farmacêuticas, [3]Instiruto de Quimica Unesp, [4]Universidade Estadual Paulista - Araraquara

SP3-I71 - Nanocomposites based in bacterial cellulose and metallic colloids.

Molíria Vieira Dos Santos[1], Hernane Silva Barud, Lucas Alonso Rocha[2], Sidney José Lima Ribeiro; [1]Instituto de Quimica Araraquara - Unesp, [2]Universidade de Franca

SP3-I72 - A Microscopic Study of Akaganèite Formation

Fauze Jacó Anaissi[1], Juan Carlo Villalba, Koema Cavicciolli, Stephani Berezoski; [1]Universidade Estadual do Centro Oeste do Paraná

SP3-I73 - Effects of Clay Surfaces on Akaganèite Formation

Fauze Jacó Anaissi[1], Juan Carlo Villalba, Koema Cavicciolli, Stephani Berezoski; [1]Universidade Estadual do Centro Oeste do Paraná

SP3-I74 - Using the sol-gel process for making three-dimensional matrix for bone regeneration

Alessandra Nogueira Santos, Agda Aline Oliveira, Marivalda Magalhães Pereira

SP3-I75 - Molecularly imprinted silicas for adsorption/preconcentration of pharmaceuticals

Everton Cristian Morais[1], Gabriel Giron Corrêa, João Henrique Zimnoch Dos Santos[1]; [1]Universidade Federal do Rio Grande do Sul

SP3-I76 - Encapsulated $K_2S_2O_5$ via sol-gel route as additive in LDPE films: antioxidant and antibacterial effects on vegetables

Mara Gn Quadri, Fabiana Bortolini, Nei Fronza, João Henrique Zimnoch Dos Santos[1], Larissa Brentano Capeletti; [1]Universidade Federal do Rio Grande do Sul

SP3-I77 - Multifunctional nanostructured materials applied in controlled radiopharmaceuticals release

Raquel Cristina de Sousa Azevedo[1], Ricardo Geraldo de Sousa, Daniel Cristian Ferreira Soares, Edésia Martins Barros de Sousa[1]; [1]Centro de Desenvolvimento da Tecnologia Nuclear

SP3-I78 - Luminescent hexagonal ordered mesoporous Eu:SiO2

Aline Dos Santos Lira Durães[1], Marcia Carvalho de Abreu Fantini[2], Hermi Felinto Brito, Ana Valéria Santos de Lourenço[3], Cláudia Akemi Kodaira; [1]Instituto de Física, [2]Instituto de Física da Universidade de São Paulo, [3]Instituto de Química - Usp

SP3-I79 - Luminescents mesoporous materials obtained by aerosols pyrolysis – supramolecular arrays and energy transfers

Rafael Miguel Sábio[1], José Maurício Almeida Caiut, Lucas A. Rocha, Sidney José Lima Ribeiro, Marie-Joëlle Menu; [1]Instiruto de Quimica Unesp

SP3-I80 - PMMA-SiO_2 organic-inorganic hybrid coatings against tin coated steel corrosion in aggressive medium

Sandra Helena Pulcinelli[1], Hudson Wallace Pereira Carvalho, Elivelton Alves Ferreira, Ana Flávia Suzana[2], Assis Vicente Benedetti, Celso Valentim Santilli[3]; [1]Chemistry Institute Of Araraquara, [2]Instiruto de Quimica Unesp, [3]Universidade Estadual Paulista - Araraquara

SP3-I81 - Antimicrobial films efficiency on the microbiota of vacuum-packed chilled meat

Mara Gn Quadri, Nei Fronza, Ricardo Af Machado

SP3-I82 - PMMA based copolymer/montmorillonite clay nanocomposites: mechanisms of thermal stability

Ana Flávia Suzana[1], Hudson Wallace Pereira Carvalho, Sandra Helena Pulcinelli[2], Celso Valentim Santilli[3]; [1]Instiruto de Quimica Unesp, [2]Chemistry Institute Of Araraquara, [3]Universidade Estadual Paulista - Araraquara

SP3-I83 - Activity and stability studies of Burkholderia cepacia lipase immobilized on organofunctionalized mesoporous silica

Erika Maria Gouveia Melo[1], André Leonardo Patrício Silva, Luiza Nobuco Hirota Arakaki, Tomaz Arakaki, Maria Gardennia Fonseca[2], José Geraldo de Paiva Espínola; [1]Universidade Federal da Paraiba, [2]Universidade Federal da Paraíba

SP3-I84 - Nanosilica-PU Latex composites: in-situ synthesis

Cesar A. Heck[1], João Henrique Zimnoch Dos Santos[2]; [1]Post-Graduation Course In Material Science, [2]Universidade Federal do Rio Grande do Sul

SP3-I85 - Equilibrium study and kinetic for adsorption of Ni2+ fromaqueous solution onto MCM-41 functionalized with 3-aminopropyl.

Helenise Almeida do Nascimento[1], Haryane Ribeiro Morais da Silva, José Geraldo de Paiva Espínola, Maria Gardennia Fonseca[1], Luiza Nobuco Hirota Arakaki, Ercules Epaminondas de Souza Teotonio; [1]Universidade Federal da Paraíba

SP3-I86 - Studies of pre-treatment with cationics surfactants on the glass substrate to the growth of V_2O_5/PANI thin film

Elidia Maria Guerra, Mirela de Castro Santos, Rodrigo Fernando Bianchi

SP3-I87 - Effect of precursors on the formation of vanadium pentoxide gel

José Batista de Camargo Junior[1], Eryza de Castro Guimaraes, Fauze Jacó Anaissi[2]; [1]Universidade Estadual do Centro Oeste, [2]Universidade Estadual do Centro Oeste do Paraná

SP3-I88 - The use of isothermal calorimetry for monitoring the release profiles of antifolate drugs adsorbed on fish scale/alginate composite

Gracy Karla da Rocha Cortes[1], Renata Almeida Chagas[1], Eunice Fragoso da Silva Vieira, Antonio Reinaldo Cestari, Cecilia Santos Silva; [1]Universidade Federal de Sergipe

SP3-I89 - Structural characterization of nanocomposite materials formed from smectite clays and vanadium pentoxide gel

José Batista de Camargo Junior[1], Eryza de Castro Guimaraes, Fauze Jacó Anaissi[2]; [1]Universidade Estadual do Centro Oeste, [2]Universidade Estadual do Centro Oeste do Paraná

SP3-I90 - Synthesis, Characterization and Application of Films based on Zinc Oxide

Marlon Nunes da Silva[1], Sandra Helena Pulcinelli[2], Celso Valentim Santilli[3]; [1]Instiruto de Quimica Unesp, [2]Chemistry Institute Of Araraquara, [3]Universidade Estadual Paulista - Araraquara

SP3-I91 - Preparation and thermogravimetry of an amino-functionalized poly(dimethylsiloxane) network

Fábio Antônio Belinelli Silva[1], Mariana de Rezende Bonesio, Ricardo Patrick Donizete Silva, Gabriela Emília Souza, Fábio Luiz Pissetti; [1]Universidade Federal de Alfenas

SP3-I92 - Characterization of Thiol-Functionalized Poly(dimethylsiloxane) Networks

Fábio Antônio Belinelli Silva[1], Yoshitaka Gushikem[2], Inez Valéria Pagotto Yoshida, Fábio Luiz Pissetti; [1]Universidade Federal de Alfenas, [2]Universidade Estadual de Campinas

SP3-I93 - Synthesis of mesoporous hydroxyapatite: Influence of the surfactant on the structural characteristics

Ernane de Paula Lopes[1], Edésia Martins Barros de Sousa[1]; [1]Centro de Desenvolvimento da Tecnologia Nuclear

SP3-I94 - ITO thin films prepared by non-hydrolytic sol-gel route

Beatriz Morante de Campos[1], Eduardo José Nassar, Lucas Alonso Rocha[1], Paulo Sérgio Calefi, Katia Jorge Ciuffi[1], Emerson Henrique de Faria, Milton Sérgio Fernandes de Lima; [1]Universidade de Franca

SP3-I95 - Evaluating the effect of encapsulation

route in structural characteristics and antibacterial activity of materials containing antibiotic encapsulated by the sol-gel method

Gabriel Giron Corrêa, Everton Cristian Morais[1], Álvaro Vargas Junior, Nei Fronza, João Henrique Zimnoch Dos Santos[1]; [1]Universidade Federal do Rio Grande do Sul

SP3-I96 - Control of particle size of mesoporous silica for biomedical applications

Gracielle Ferreira Andrade[1], André Felipe Oliveira[2], Edésia Martins Barros de Sousa[3]; [1]Universidade Federal de Minas Gerais, [2]Centro de Desenvolvimento de Tecnologia Nuclear, [3]Centro de Desenvolvimento da Tecnologia Nuclear

SP3-I97 - Development of hybrid multifunctional based on silica - P(N-iPAAm)-magnetic nanoparticles for use in drug delivery and hyperthermia studies

Paula Maria da Silva Leite[1], Karynne Cristina de Souza[2], Ricardo Geraldo de Sousa, Edésia Martins Barros de Sousa[2]; [1]Centro de Desenvolvimento da Tecnologia Nuclear, [2]Universidade Federal de Minas Gerais

SP3-I98 - Optimization of a synthetic route of the MCM-41performance in different functions of selective form

Silvia Caroline Gomes Dos Santos Silva, Yacco Garcia Trindade Barata[1], Anne Michele Garrido Pedrosa de Souza, Maria Eliane de Mesquita[1]; [1]Universidade Federal de Sergipe

SP3-I99 - Synthesis of a mesoporous sieve MCM-41 using sugarcane bagasse as silicon source and incorporation with lanthanide complex

Yacco Garcia Trindade Barata[1], Roberta Anjos de Jesus, Maria Eliane de Mesquita[1]; [1]Universidade Federal de Sergipe

SP3-I100 - Functionalized polyhedral oligomeric silesquioxane for incorporation of chemically pendant chains.

Ali Riaz[1], Adriane Cherpinski Correa, Hameed Ullah, Jose de Alencar Simoni; [1]Universidade Estadual de Campinas

SP3-I101 - Study syntheses to obtain mesoporous silica SBA with large pores

Jeann Diniz Ferreira Lima[1], Antonia Flávia Justino Uchoa, Luelc Souza da Costa, Luiz Constantino Grombone Vasconcellos, Francisco Santos Dias; [1]Universidade Federal do Ceará

SP3-I102 - Influence of functionalization in the size, morphology and geometric distribution of the hollow silica nanoparticles

Carine Santana de Souza Ribeiro[1], Segundo Nilo Mestanza Munoz[2], Anderson Orzari Ribeiro[2]; [1]Federal University Of Abc, [2]Universidade Federal do Abc

SP3-I103 - Mesoporous silica SBA-15 functionalized with 3-aminopropyl-trimethoxysilane (APTMS) and phenyl-isotiocianate (PIT)for testing of adsorption of heavy metals

Antonia Flávia Justino Uchoa, Jeann Diniz Ferreira Lima[1], Luelc Souza da Costa, Francisco Santos Dias, Luiz Constantino Grombone Vasconcellos; [1]Universidade Federal do Ceará

SP3-I104 - Charged silsesquioxane immobilized on silica matrix used as adsorbent of Cu(II) tetrasulfophthalocyanine to be applied as sensor for oxygen

Leliz Ticona Arenas, Debora Simone Figueredo Gay, Yoshitaka Gushikem[1], Silvio Luis Pereira Dias, Celso Camilo Moro, Tania Maria Haas Costa[2], Edilson V Benvenutti[3]; [1]Universidade Estadual de Campinas, [2]Universidade Federal do Rio Grande do Sul, [3]Institute Of Chemistry

SP3-I105 - Ionic silica based hybrid material as textile dye adsorption

Eliana Weber de Menezes[1,2], Eder Lima, Betina Royer, Thais Helena Maciel Fernandes, Camila Volf Amavisca, José Ribeiro Gregório, Yoshitaka Gushikem[3]; [1]Instituto de Química, [2]Institute Of Chemistry, [3]Universidade Estadual de Campinas

SP3-I106 - β-diketonate europium(III) complex covalently bonded to phosphine oxide-functionalized poly(dimethylsiloxane)

Rafael Di Lazaro Gaspar[1], Inez Valéria Pagotto Yoshida, Italo Odone Mazali, Fernando Aparecido Sigoli; [1]Universidade Estadual de Campinas

SP3-I107 - Aggregation studies of mefenamic acid with sodium alginate

Renato Bosco Moreira Oliveira[1], Aline Margarete Furuyama Lima[1], Rodrigo Pereira, Ailton José Terezo, Bruna Vieira Guimarães, Francisco Xavier de Campos, Adriano Buzutti Siqueira; [1]Universidade Federal de Mato Grosso/ Barra do Garças

SP3-I108 - Influence of Functionalization in the Synthesis of Silver Nanoparticles

Ederaldo Ferreira Silva[1], Segundo Nilo Mestanza Munoz[2], Thiago Henrique Delfino Santos, Anderson Orzari Ribeiro[2]; [1]Federal University Of Abc, [2]Universidade Federal do Abc

SP3-I109 - Synthesis of Nanostructured Materials Applied to Controlled Release Drug

Francisco Welton de Oliveira Amarante[1], Antonia

Flávia Justino Uchoa, Antonia Daniele S. Bruno Costa[1], Dulce Maria de Araujo Melo, Luiz Constantino Grombone Vasconcellos, Antonio Sérgio Bezerra Sombra, Nágila Maria Pontes Silva Ricardo; [1]Universidade Federal do Ceará

SP3-I110 - Synthesis and Characterization of Nanoparticles Magnetic Host for Magnetic Hyperthermia and Drug Delivery System

Karynne Cristina de Souza[1], Paula Maria da Silva Leite[2], Nelcy Della Santina Mohallem, Edésia Martins Barros de Sousa[2]; [1]Universidade Federal de Minas Gerais, [2]Centro de Desenvolvimento da Tecnologia Nuclear

SP3-I111 - Interpenetrating Polymer Networks based on PVP and PDMS: Thermal Characterization

Marco Antonio Schiavon[1], Valdir Mano, Rafael Moreira Siqueira; [1]Universidade Federal de São João Del Rei

SP3-I112 - Synthesis and characterization of erbium doped silica nanoparticles by sol-gel

Isis Polido Santos[1], Segundo Nilo Mestanza Munoz[2], Anderson Orzari Ribeiro[2]; [1]Federal University Of Abc, [2]Universidade Federal do Abc

SP3-I113 - Optical characterization of the mixed oxide of nanostructured vanadium.

Wellington Douglas Guimarães Gonçalves[1], Genilson Reinaldo da Silva, Isabel Cristina Schwingel, Cleiser Thiago Pereira da Silva, Gian Paulo Giovanni Freschi, Nelson Luis de Campos Domingues, Andrelson Wellington Rinaldi; [1]Fundação Universidade Federal da Grande Dourados

SP3-I114 - Development of modified pseudoboehmites for nanosystems to release acyclovir

Antonio Hortencio Munhoz Jr., Felipe Casseb de Jesus, Karina Cruz, Marcos Vinicius Suarmani Martins, Jan Vatavuk, Leila Figueiredo de Miranda

SP3-I115 - A novel anticorrosion hybrid xerogel coatingbased an charged bis silane group for copper substrate

Geraldo Beyer Machado[1]; [1]Institute Of Chemistry

SP3-I116 - Direct coating of $CdS/Cd(OH)_2$ nanoparticles with silica

Claudilene Ribeiro Chaves[1], Giovannia Araujo Pereira, Patrícia Maria Albuquerque de Farias, Adriana Fontes, Beate Saegesser Santos; [1]Universidade Federal de Pernambuco

SP3-I117 - Effect of length of polymer chain in photochromic hybrid materials obtained by sol gel process

Celso Molina[1], Priscilla Almeida Obara, Sidney José Lima Ribeiro; [1]Universidade Federal de São Paulo (Unifesp)

SP3-I118 - Microstructure of hybrid silica obtained by sol-gel process investigated by small angle X-ray scattering

Rafael Mello Lattuada[1], Larissa Brentano Capeletti, João Henrique Zimnoch Dos Santos[1], Mateus B. Cardoso; [1]Universidade Federal do Rio Grande do Sul

SP3-I119 - Synthesis of $LaNiO_3$ perovskite by modified proteic gel method and study of catalytic properties in the syngas production

José Carlos Dos Santos, Marcelo José de Barros Souza, Maria Eliane de Mesquita[1], Anne Michele Garrido Pedrosa de Souza; [1]Universidade Federal de Sergipe

SP3-I120 - Organofunctionalization mesoporous silica SBA-16 with a new silane

Ramon Kenned de Sousa Almeida[1], José Ricardo da Costa, Claudio Airoldi; [1]University Of Campinas

SP3-I121 - Synthesis of hybrid materials constituted by metallic oxide nanostructure functionalized with PVA

Luís Felipe Ramires Moraes[1], Adalberto Villalba Mezacasa[2], Vicente Lira Kupfer[2], Genilson Reinaldo da Silva, Jaqueline de Carvalho Rinaldi, Nelson Domingues, Andrelson Wellington Rinaldi; [1]Fundação Universidade Federal da Grande Dourados, [2]Universidade Federal da Grande Dourados

SP3-I122 - Synthesis and application of MCM-41 mesoporous silicate in controlled drug delivery

Roberta Anjos de Jesus, Alessandra Silva Rabelo, Adriano Antunes de Souza Araujo, Renan Tavares Figueredo, Antonio Reinaldo Cestari, Maria Eliane de Mesquita[1]; [1]Universidade Federal de Sergipe

SP3-I123 - Steam reforming of CH_4 on Pd catalysts supported on La_2O_3-Al_2O_3 carriers obtained by the sol-gel method

Wellington Henrique Cassinelli[1], Clelia Mara de Paula Marques; [1]Instituto de Quimica Unesp

SP3-I124 - Synthesis and characterization of polysilsesquioxane functionalized with mercaptan to electrorheological fluids

Bluma Guenther Soares, Jessica Alves Marins[1], Karim Dahmouche[1]; [1]Universidade Federal do Rio de Janeiro

SP3-I125 - Structural and Optical characterization of Eu:Doped Barium Silicate from Sol-Gel Route

Diego Ariça Ceccato, Sergio A Marques Lima[1], Ana Maria Pires[2]; [1]Fct-Unesp Campus de Presidente Prudente, [2]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

SP3-I126 - An Approach for Quantifying Dispersion of Carbon Nanotubes in Ceramic Composites Using TEM images
Alessandro Bof Oliveira, Patrícia Rodrigues da Silva[1], Pâmela Andréa Mantey Dos Santos[2], Tania Maria Haas Costa[2], Marcia Russman Gallas; [1]Federal University Of Rio Grande do Sul, [2]Universidade Federal do Rio Grande do Sul

SP3-I127 - Study of adsorption kinetics of Co(II) ion on silica matrix functionalized with N-(3-Trimethoxysilanopropil) diethylenetriamine and modified with EDTA
Franklin Pessoa Aguiar[1], Veronica Alves Dos Santos, Monique S Pessoa, Ercules Epaminondas de Souza Teotonio, José Geraldo de Paiva Espínola, Luiza Nobuco Hirota Arakaki, Maria Gardennia Fonseca[1]; [1]Universidade Federal da Paraíba

SP3-I128 - Siloxane-p(MMA-co-HEMA) hybrid as release system for Diclofenac Diethylamine
Victor Hugo Vitorino Sarmento[1], Brena Monaline Menezes Rezende, Joyce Kelly Marinheiro Gonsalves, Rogéria Souza Nunes; [1]Universidade Federal de Sergipe

SP3-I129 - Effect of synthesis conditions on the structural features of Siloxane-p(MMA-co-HEMA) hybrids
Victor Hugo Vitorino Sarmento[1], Luzia Rejane Lisboa Santos, Cícero Inácio Silva Filho; [1]Universidade Federal de Sergipe

SP3-I130 - Characterization of the nanostructure of crosslinked epoxy and amino-silanes
Adriana Dos Anjos Silva[1]; [1]Instituto de Macromoleculas Professora Eloisa Mano

SP3-I131 - Growth Kinetics and Dynamic Scaling in GPTS-Derived Organic/Silica Hybrids
Dimas Roberto Vollet[1], Carlos Miranda Awano, Fabio Simões de Vicente, Dario Antonio Donatti[1]; [1]Universidade Estadual Paulista - Igge - Rio Claro

SP3-I132 - Reversible Photochromic effect in GPTS-TEOS hybrids films doped with Methyl Red Azo-Dye
Fabio Simões de Vicente, Evandro Martin Lanzoni, Thiago Braga de Mello, Dimas Roberto Vollet[1], Dario Antonio Donatti[1]; [1]Universidade Estadual Paulista - Igge - Rio Claro

SP3-I133 - Growth Dynamic Study on Particles Silica Sol-Gel
Segundo Nilo Mestanza Munoz[1], Anderson Orzari Ribeiro[1], Antonio Luis Ribera Hermano, Giorgio Giunta; [1]Universidade Federal do Abc

SYMPOSIUM J

Solidification of metals and alloys

Chairs

José Eduardo Spinelli (DEMa/UFSCar, Brazil)
Amauri Garcia (DEMA/FEM/UNICAMP, Brazil)
Nathalie Mangelinck-Noël (Institut Matériaux Microélectronic Nanoscience de Provence, France)

ORAL PRESENTATIONS

* Invited Lecture

WEDNESDAY, SEPTEMBER 28TH

SESSION J6
09:30 - 10:30 - Room 16

09:30 - J6.1*
In situ and real-time characterization of dendritic grain structure formation during metallic alloy solidification
Guillaume Reinhart, Henri Nguyen-Thi, Nathalie Mangelinck-Noël[1], Bernard Billia, Nathalie Bergeon, Aziz Bogno, Thomas Schenk; [1]Institute For Materials Microelectronics And Nanosciences Of Provence

10:00 - J6.2
Microstructure and Mechanical Properties of Directionally Solidified Ti-Fe Eutectic Alloy
Rodrigo José Contieri[1], Eder Lopes, Manolo de La Cruz, Conrado Ramos Moreira Afonso[2], Rubens Caram, Alex Matos; [1]Universidade Estadual de Campinas, [2]Universidade Federal de São Carlos

10:15 - J6.3
Microstructural characterization of modified MAR-M247 superalloy
Alex Matos Costa[1], Carlos Angelo Nunes, Gilberto Carvalho Coelho, Rubens Caram; [1]Escola de Engenharia de Lorena - Universidade de São Paulo

SESSION J7
11:00 - 12:30 - Room 16

11:00 - J7.1*
Correlation between Solidification Conditions, Mechanical Properties and Heat Treatments of Non-Ferrous Alloys
Carlos Alexandre Dos Santos[1]; [1]Pontifícia Universidade Católica do Rio Grande do Sul

11:30 - J7.2
Microstructural Characterization of Cobalt-Chromium Odontological Alloys After Successive Recasting
Elisângela Barros Dantas[1], Harrison Almeida Dantas, Antonio Eduardo Martinelli[1], Dulce Maria de Araujo Melo, Dulce Maria Araújo Melo, Auristela Carla Miranda; [1]Universidade Federal do Rio Grande do Norte

11:45 - J7.3
Study of the cooling curve of molten AA-356: effect of varyng the cooling rate of the moldand the use of inoculants system Al-Ti-B
Cássia Cavalcanti da Silva[1], Carlos Kiyan; [1]Universidade Estadual Paulista - Guaratinguetá

12:00 - J7.4
Influence of thermosolutal convection on the columnar to equiaxed transition in unsteady-state directional solidification of Al-9wt%Si alloy
Antonio Luciano Seabra Moreira, Andréa Moreira Moutinho, Diego de Leon Brito Carvalho, Daniel Joaquim Moutinho, José Marcelino Filho, Otávio Lima da Rocha[1]; [1]Federal Institute Of Education, Science And Technology Of Pará

SESSION J8
15:00 - 16:00 - Room 16

15:00 - J8.1*
Relationship Amoung Heat Transfer, Dendrite Microstructure And Grain Size In Continuous Casting Of Steels
Jaime Alvares Spim

15:30 - J8.2
Monotectic Growth During Upward and Downward Transient Directional Solidification of a Hypomonotectic Al-Pb Alloy
Maria Adrina Paixão de Souza da Silva[1], Pedro Roberto Goulart, José Eduardo Spinelli[2], Emmanuelle Sá Freitas, Amauri Garcia[3]; [1]Universidade Federal do Pará, [2]Universidade Federal de São Carlos, [3]Universidade Estadual de Campinas

THURSDAY , SEPTEMBER 29TH

SESSION J9
09:30 - 10:30 - Room 16

09:30 - J9.1
Wetting behaviour of silver-based braze alloys onto ceramic substrates for oil well drill bits application
Jorge Carlos Pereira, Poliana Rochele Felix Dos Santos, Rubens Maribondo do Nascimento, Antonio Eduardo Martinelli[1], Luis Augusto Rocha; [1]Universidade Federal do Rio Grande do Norte

09:45 - J9.2
Simulation of microstructure and mechanical properties of Al-1.5wt%Fe cylindrical castings solidified inwards and outwards
Felipe Bertelli[1], Elisangela Dos Santos Meza[1], Débora de Jesus Bezerra[2], Pedro Roberto Goulart, Noé Cheung, Amauri Garcia[2]; [1]Universidade Estadual de Campinas, [2]Universidade Metodista de São Paulo

10:00 - J9.3
Heat Transfer Coefficient at Metal-Mould Interface During Centrifugal Casting
Santiago Vacca, Marcelo Martorano, Mário Boccalini Jr., Romulo Heringer

POSTER PRESENTATIONS

WEDNESDAY, SEPTEMBER 28TH

SESSION SP3
16:00 - 18:00 - Exhibition Hall

SP3-J1 - Microstructure and properties of Ti44,8Ni55,2 shape memory alloy rapidly solidified
Walman Benicio Castro[1], George Carlos Santos Anselmo, Carlos José de Araújo; [1]Universidade Federal de Campina Grande

SP3-J2 - The effect of the growth rate on microsegregation of a directionally solidified Al-0.5wt%Fe alloy casting
Elisangela Dos Santos Meza[1], Felipe Bertelli[1], Débora de Jesus Bezerra[2], Claudenete Vieira Leal, Noé Cheung, Amauri Garcia[2]; [1]Universidade Estadual de Campinas, [2]Universidade Metodista de São Paulo

SP3-J3 - Cellular/dendritic transition and mechanical properties of a Sn-0.7wt%Cu lead-free solder alloy
Tatiana M Cavalcanti, Itamazeo T Moura, Celina L. M. Silva, Amauri Garcia[1], José Eduardo Spinelli[2]; [1]Universidade Estadual de Campinas, [2]Universidade Federal de São Carlos

SP3-J4 - Transient directional solidification of a hypoperitectic alloy
Crystopher Cardoso Brito[1], Claudio Alves Siqueira[2], Amauri Garcia[2]; [1]Universidade Estadual de Campinas, [2]Universidade Federal da Paraiba

SP3-J5 - Microstructure influence on corrosion resistance of commercial zamak 5 for industrial applications

Luciane Tais Führ[1], Claudia Trindade Oliveira, Felipe Dalla Vecchia, Gustavo Alberto Ludwig, Nínian Flores Lucas; [1]Universidade Feevale

SP3-J6 - The effect of thermal parameters on the growth of tertiary dendrite arms during solidification of Pb-Sb alloys

Emmanuelle Sá Freitas Feitosa[1], José Eduardo Spinelli[2], Amauri Garcia[2]; [1]Universidade Estadual de Campinas, [2]Universidade Federal de São Carlos

SP3-J7 - Microstructural features and microhardness of Al-Fe alloys directionally solidified under stationary conditions

Bismarck Luiz Silva, Igor Jefferson Araújo[1], Nathalie Mangelinck-Noël[2], Amauri Garcia[3], José Eduardo Spinelli[4]; [1]Universidade Federal do Rio Grande do Norte, [2]Institute For Materials Microelectronics And Nanosciences Of Provence, [3]Universidade Estadual de Campinas, [4]Universidade Federal de São Carlos

SP3-J8 - ATheoretical/Experimental Technique to determine Microporosity Formation inUpward Solidified Ternary Al-Cu-Si Alloy

Mariana Carvalho Landim, Paulo Andre Dias Jácome, Natália Rodrigues Pereira, Laercio Gouvea Gomes, Amauri Garcia[1], Ivaldo Leão Ferreira; [1]Universidade Estadual de Campinas

SP3-J9 - Investigation of columnar to equiaxed transition during directional solidification in Al-Cu-Si alloys.

Thiago Sousa Costa, Antonio Luciano Seabra Moreira, Rafael Hideo Kikuchi, José Marcelino Filho, Otávio Lima da Rocha[1]; [1]Federal Institute Of Education, Science And Technology Of Pará

SP3-J10 - Mechanical properties and corrosion resistance of Pb-Sn alloy for lead-acid battery applications

Leandro César de Lorena Peixoto[1], Wislei Riuper Osório, Amauri Garcia[1]; [1]Universidade Estadual de Campinas

SP3-J11 - Microstructure and corrosion resistance of a lead-free Sn-Ag solder alloy

Leonardo Richeli Garcia[1], Wislei Riuper Osório, Amauri Garcia[1]; [1]Universidade Estadual de Campinas

SP3-J12 - Mechanical properties of an Al-Si-Mg ribbon

Carlos Triveño Rios, Claudemiro Bolfarini, Walter Botta, Claudio Shyinti Kiminami

SP3-J13 - Influence of Ti, V and Mn additions on the rapidlysolidified Al91Fe5Cr4 Alloy

Carlos Triveño Rios, Claudemiro Bolfarini, Walter Botta, Claudio Shyinti Kiminami

SP3-J14 - Microstructural development in a hypoperitectic Pb-20w%Bi alloy directionally solidified under unsteady-state conditions

Manuel Antonio Pires Castanho[1], Pedro Roberto Goulart, Noé Cheung, Amauri Garcia[2]; [1]Instituto de Pesquisas Tecnológicas do Estado de São Paulo, [2]Universidade Estadual de Campinas

SP3-J15 - Correlation between microstructure and mechanical properties of a magnesium alloy subjected to different temperatures of overheating

André Gonçalves Garcia[1], Sergio Luiz Telles Bartex, Carlos Ferreira Frick, Jaime Alvares Spim; [1]Universidade Federal do Rio Grande do Sul

SP3-J16 - Dendritic growth of a ternary Al-9Si-3Cu alloy during transient directional solidification

Laércio Gouvêa Gomes, Otávio Lima da Rocha[1], Ivaldo Leão Ferreira, Amauri Garcia[2]; [1]Federal Institute Of Education, Science And Technology Of Pará, [2]Universidade Estadual de Campinas

SP3-J17 - Evaluation of the metal / mold affinity for Al-0,07%Zr e Al-0,15%Zr alloys solidified in an unidirectional metal mold

Iramar da Silva Tertuliano[1], Kazuo de Almeida Kamizono, Alan Tihiro Dias Nakashima[1], Alberto Luiz Mendes Macapuna, José Maria do Vale Quaresma; [1]Universidade Federal do Pará

SP3-J18 - Determination of empirical equations between the secondary dendrite spacing and the cooling rates of the special steel billets produced by continuous casting

Viviane Lopes Gschwenter Dos Santos[1], Viviane Gschwenter Dos Santos, Carlos Alexandre Dos Santos[2], Carlos Ferreira Frick, Jaime Alvares Spim; [1]Universidade Federal do Rio Grande do Sul, [2]Pontifícia Universidade Católica do Rio Grande do Sul

SP3-J19 - Solidification of superalloy Hastelloy C-276 deposited by MIG with cold wire feeding in steel carbon plates.

Bruno Alberto Cardoso Pignatario[1], Adriane Lopes Mougo, Anne Alcantara, Bruno Gonçalves Rodrigues, Carlos Alberto Mendes Mota; [1]Universidade Federal do Pará

SP3-J20 - Determination of surface tension and Gibbs-Thomson coefficient for ternaryaluminum alloys

Paulo Andre Jácome, Ingrid M Salvino, Mariana Carvalho Landim, Amauri Garcia[1], Ivaldo Leão Ferreira; [1]Universidade Estadual de Campinas

SP3-J21 - Thermocapillary convection induced by CO_2 laser surface heating

Márcio Lima Oliveira[1], Nicolau André Silveira

Rodrigues, Angelo Passaro; [1]Instituto Tecnológico de Aeronáutica

SP3-J22 - Determination Of Secondary Dendritic Spacing of The Binary Alloy Al 6 % Wt Cu During Horizontal Unidirectional Solidification Under Unsteady State Heat Flow Conditions

José Marcelino Filho, Rafael Hideo Kikuchi, Mayara Sarisariyama Lima, Fabrício Paiva Silva, Jose Nazareno Silva Silva, Otávio Lima da Rocha[1]; [1]Federal Institute Of Education, Science And Technology Of Pará

SP3-J23 - Study of thixoformability of Al-4wt%Si-0,5wt%Mg alloy in open die-casting

Luciano Augusto Lourençato, Eugênio José Zoqui, Luis Vanderlei Torres

SP3-J24 - Comparative study of hydrogen permeation through voltammetry and magnetic properties of AISI 4340 Steel

Giselle Barata Costa[1], Bruno Gitti Bertocco, Itamar Ferreira, Margarita Ballester Cardona, Célia Marina A. Freire; [1]Universidade Estadual de Campinas

SP3-J25 - Laser modified thin layers in piston rings

Jesualdo Luiz Rossi[1], Wagner de Rossi, Felipe de Oliveira; [1]Instituto de Pesquisas Energéticas E Nucleares

SP3-J26 - Optimization of heat treatment solutioning timesunder different dendritic arm spacing in as-cast Al-4.0%Cu alloy

Carlos Alexandre Dos Santos[1], Rodrigo Paz França, Bernardo Porás Reis, Leandro Disiuta; [1]Pontifícia Universidade Católica do Rio Grande do Sul

SYMPOSIUM K

Supramolecular organic materials for electronic, photonics and nanotechnology

Chairs

Leni Akcelrud (UFPR)
Roberto Mendonça Faria (USP)
José Alberto Giacometti (Unesp and Carlos José Leopoldo Constantino - USP)

ORAL PRESENTATIONS

* Invited Lecture

MONDAY , SEPTEMBER 26TH

SESSION K1
09:30 - 10:30 - Room 24

09:30 - K1.1*

Memory devices for organic electronic circuits

David Martin Taylor

10:00 - K1.2

Low-voltage organic field effect transistor with poly(3-hexylthiophene) channel and polymeric insulator

Wagner Souza Machado[1], Ivo Alexandre Hummelgen; [1]Universidade Federal do Paraná

10:15 - K1.3

Organic field-effect transistors using P3HT and PMMA as dielectric

Alexandre de Castro Maciel[1], Roberto Mendonça Faria[1]; [1]Instituto de Física de São Carlos

SESSION K2
11:00 - 12:30 - Room 24

11:00 - K2.1*

Photochemically triggered switching in organic semiconducting materials and structures

Juliusz Sworakowski

11:30 - K2.2

The Fluorescence Ellipsometry Technique to Determinethe Molecular Alignment and Phase Transition ofOrganized and Non-Organized Films

Paulo Alliprandini Filho[1], Ivan Helmuth Bechtold, Rodrigo Cristiano, André Alexandre Vieira, Hugo Alejandro Gallardo Olmedo, Alexandre Marletta[1]; [1]Universidade Federal de Uberlândia

11:45 - K2.3

Subpicosecond dynamics of excited-states in solvated $[Ru(bpy)_3]^{2+}$ complexes

Diego Anderson Hoff, Robson da Silva, Luis Guilherme de Carvalho Rego[1]; [1]Universidade Federal de Santa Catarina

12:00 - K2.4

Study of the electro-optic activity in PMMA guest-host films using the photoassisted poling technique

Flávio Makoto Shimizu[1], José Alberto Giacometti[1]; [1]Fct-Unesp Campus de Presidente Prudente

SESSION K3
15:00 - 16:00 - Room 24

15:00 - K3.1*

Polymetallaynes for gamma-Radiation Dosimetry

Maria Vittoria Russo, Carlos F. O. Graeff, Ilaria

Fratoddi, Iole Venditti, Augusto Batagin-Neto, Erika Bronze-Uhle, David M. Fernandes

15:30 - K3.2

Study of poly(amide-imide) thin films through impedance spectroscopy using MIS configuration

Élder Mantovani Lopes[1], Ricardo Sussumu Ywata[2], Flávio Makoto Shimizu[2], Neri Alves, David Martin Taylor, Antonio Jose Felix Carvalho, José Alberto Giacometti[2]; [1]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente, [2]Fct-Unesp Campus de Presidente Prudente

15:45 - K3.3

Temperature Dependent Mobility of Poly(9,9\'-dioctylfluorene-co-benzothiadiazole) based-thin-films

Gregório Couto Faria[1], Eduardo Ribeiro Deazevedo, Roberto Mendonça Faria[2], Heinz Von Seggern; [1]Universidade de São Paulo - Instituto de Física de São Carlos, [2]Instituto de Física de São Carlos

TUESDAY , SEPTEMBER 27TH

SESSION K4
09:30 - 10:30 - Room 24

09:30 - K4.1*

Towards low cost and high output fabrication of organic semiconductors devices: from OLEDs to photovoltaics

Luiz Pereira

10:00 - K4.2

Synthesis, Characterization and Electro-optical Properties of a Conjugated Fluorene and Pyridine Containing Copolymer and its Europium Complex

Denis Augusto Turchetti, Paula C. Rodrigues, Cristiano Zanlorenzi, Leonardo Schneider, Teresa Dib Zambon Atvars[1], Wido Herwig Schreiner, Leni Campos Akcelrud; [1]Universidade Estadual de Campinas

10:15 - K4.3

Raman and XRD study on brookite-anatase coexistence in cathodic electrosynthesized titania deposits

Cristiani Silveira Campos, Edna Regina Spada, Fernando Rogério de Paula, Françoise Toledo Reis, Roberto Mendonça Faria[1], Maria Luisa Sartorelli[2]; [1]Instituto de Física de São Carlos, [2]Universidade Federal de Santa Catarina

SESSION K5
11:00 - 12:30 - Room 24

11:00 - K5.1*

Modeling the interactions involved in biosensors madewith organic thin films

Osvaldo Novais Oliveira Jr

11:30 - K5.2

Thin Films of Lignins Extracted from Sugar Cane: Morphology, Electrical Characterization and Sensing Applications

Diogo Volpati[1], Aislan Douglas Machado, Clarissa Olivati, Neri Alves, Carlos José Leopoldo Constantino; [1]Fct-Unesp Campus de Presidente Prudente

11:45 - K5.3

Layer-by-Layer films of magnetic nanoparticles and biocompatible polymers

Antonio Riul Jr.[1], Celina Massumi Miyazaki[2], Mariselma Ferreira, Carlos José Leopoldo Constantino, David Sotero Dos Santos Jr., Marcelo de Assunção Pereira da Silva[3], Osvaldo Novais Oliveira Jr; [1]Universidade Federal de São Carlos - Campus Sorocaba, [2]Universidade Estadual Paulista "julio de Mesquita Filho" - Posmat, [3]Instituto de Física de São Carlos

12:00 - K5.4

Helical tape as intermediate in nanotubes formation

Cilâine Verônica Teixeira[1], Heinz Amenitsch, Takanori Fukushima, Jonathan Hill, Wusong Jin, Takuzo Aida, Mika Linden; [1]Universidade Federal do Rio Grande do Sul

WEDNESDAY, SEPTEMBER 28TH

SESSION K6
09:30 - 10:30 - Room 24

09:30 - K6.1*

Evolution and harvesting of optically excited triplet states in multi-component organic systems

Stanislav Balushev

10:00 - K6.2

New europium complexes with mixed organic ligands: potential luminescent markers

Audrey Nunes de Andrade[1], Ana Paula Souza, Janaína Versiani Dos Anjos, Oscar Loureiro Malta; [1]Universidade Federal de Pernambuco

10:15 - K6.3

Different characteristics of the emission intensity in blends and bilayers of conjugated polymers induced by distinct excitation geometries

Roberto Shigueru Nobuyasu Junior[1], Luiz Alberto Cury[1], Jean-Pierre Lère-Porte; [1]Universidade Federal de Minas Gerais

SESSION K7
11:00 - 12:30 - Room 24

11:00 - K7.1*

Interface process in organic nanostructures

Francisco E.g. Guimaraes[1]; [1]Universidade de São Paulo - Instituto de Física de São Carlos

11:30 - K7.2

Going beyond the DFT Electronic Structure for Organic/Titanium Dioxide interfaces

Leonardo Matheus Marion Jorge[1], Marcelo Alves Dos Santos, Marília J. Caldas; [1]Instituto de Física da Universidade de São Paulo

11:45 - K7.3

Reparametrization of non-bonded energies and its application in classical molecular dynamics simulation of amorphous systems

Rodrigo Ramos da Silva[1], Járlesson Gama Amazonas, Melissa Siqueira Pinto, Marília J. Caldas; [1]Instituto de Física da Universidade de São Paulo

12:00 - K7.4

Complementary rectification effect in single tetra-phenylporphyrin molecules

Vinicius Claudio Zoldan[1], Chunlei Gao, Andre Avelino Pasa, Jürgen Kirschner; [1]Universidade Federal de Santa Catarina

12:15 - K7.5

Structural changes in indium tin oxide substrates during cathodic polarization

Edna Regina Spada, Fernando Rogério de Paula, Cristiani Silveira Campos, Roberto Mendonça Faria[1], Maria Luisa Sartorelli[2]; [1]Instituto de Física de São Carlos, [2]Universidade Federal de Santa Catarina

SESSION K8
15:00 - 16:00 - Room 24

15:00 - K8.1*

Organic ferroelectrics for memory and display applications

Dago M de Leeuw[1]; [1]University Of Groningen / Rijksuniversiteit Groningen

15:30 - K8.2

Write-once-read-many-times memory devices based on N and B doped carbon sphere - polymer composites

Messai Adenew Mamo[1], Wagner Souza Machado[1], John Coville Neil, Ivo Alexandre Hummelgen; [1]Universidade Federal do Paraná

15:45 - K8.3

Charge carrier trapping phenomena in aluminum-oxide polymer interfaces: Application in organic based Resistive Random Access Memories (RRAMs)

Qian Chen[1], Henrique Leonel Gomes[2], Neri Alves, José Alberto Giacometti, Stefan C Meskers, Dago M de Leeuw[3]; [1]University Of Algarve, [2]Universidade do Algarve, [3]University Of Groningen / Rijksuniversiteit Groningen

POSTER PRESENTATIONS

MONDAY , SEPTEMBER 26TH

SESSION SP1
16:00 - 18:00 - Exhibition Hall

SP1-K1 - PMMA nanocomposites reinforced with layered double hydroxides intercalated with dodecyl sulfate.

Telma Nogueira[1], Rodrigo Botan[1], Fernando Wypych, Liliane M.f. Lona; [1]Universidade Estadual de Campinas

SP1-K2 - Morphology and thermal properties of polymers – layered double hydroxide nanocomposites synthesized via in situ polymerization

Rodrigo Botan[1], Telma Nogueira[1], Fernando Wypych, Liliane M.f. Lona; [1]Universidade Estadual de Campinas

SP1-K3 - Photoluminescence quantum yield as a tool to study the energy transfer mechanism in bilayers and blends

Bárbara Brenda de Almeida Costa[1], Paloma Lays Santos[1], Karolline Aparecida de Souza Araujo, Luiz Alberto Cury[1]; [1]Universidade Federal de Minas Gerais

SP1-K4 - Interchain and intrachain exciton energy migration contributing to the Super Yellow copolymer emission

Paloma Lays Santos[1], Bárbara Brenda de Almeida Costa[1], Karolline Aparecida de Souza Araujo, Luiz Alberto Cury[1]; [1]Universidade Federal de Minas Gerais

SP1-K5 - Charge injection and mobility of poly(thiophene-dialkoxyphenylene)/PDMS/SWNT/MWNT nanostructures for solar cells application

Hugo Santos Silva[1], Marcella Cogo Muniz, Sandra Lúcia Nogueira[1], Mauricio Foschini[1], Alexandre Marletta[1], Newton Martins Barbosa Neto[2], Raigna Augusta da Silva; [1]Universidade Federal de Uberlândia, [2]Universidade Federal de Minas Gerais

SP1-K6 - Energy Transfer Process of Polyfluorene Blended with Poly(vinylcarbazole)

Bruna Médici Amorim Bonon[1], Teresa Dib Zambon Atvars[1]; [1]Universidade Estadual de Campinas

SP1-K7 - Is the mechanism for donor-acceptor interaction in blends and bilayers of conjugated polymers the same?

Luiz Alberto Cury[1], Karolline Aparecida de Souza Araujo, Paloma Lays Santos[1], Bárbara Brenda de Almeida Costa[1], Paulo Sérgio Soares Guimarães[1]; [1]Universidade Federal de Minas Gerais

SP1-K8 - XRD and SAXS studies applied to poly(o-methoxyaniline) salt form (ES-POMA)

Edgar A Sanches[1], Juliana Coatrini Soares[2], Graziella Trovati, Edson G. R. Fernandes, Ana Carolina Mafud, Cláudia Lima Nogueira, Yvonne P. Mascarenhas; [1]Instituto de Física de São Carlos, [2]Universidade de São Paulo

SP1-K9 - XRD and SAXS studies applied to emeraldine-salt polyaniline (ES-PANI)

Edgar A Sanches[1], Juliana Coatrini Soares[2], Graziella Trovati, Edson G. R. Fernandes, Ana Carolina Mafud, Cláudia Lima Nogueira, Yvonne P. Mascarenhas; [1]Instituto de Física de São Carlos, [2]Universidade de São Paulo

SP1-K10 - Characterization of ES-PANI/Au nanoparticles complex

Edgar A Sanches[1], Juliana Coatrini Soares[2], Graziella Trovati, Ana Carolina Mafud, Cláudia Lima Nogueira, Valtencir . Zucolotto, Yvonne P. Mascarenhas; [1]Instituto de Física de São Carlos, [2]Universidade de São Paulo

SP1-K11 - Study of new materials for application in memory devices

Silésia de Fátima Curcino da Silva[1], Adriano Cesar Rabelo, Raigna Augusta da Silva Zadra Armond, Hugo Santos Silva[1], Alexandre Marletta[1]; [1]Universidade Federal de Uberlândia

SP1-K12 - Photophysical properties of bilayered thin films of MEH-PPV and PMMA doped with a hole transporter compound.

Tatiana Duque Martins[1], Henrique Santiago de Camargo[1]; [1]Universidade Federal de Goiás

SP1-K13 - Luminescent Properties of Silicone-polyfluorene hybrid material

Tatiana Duque Martins[1], Paulo Alves da Costa Filho[1]; [1]Universidade Federal de Goiás

SP1-K14 - Synthesis and structural, optical and vibrational characterization of assymetric oligomers and polymer based on thiophene-phenylene sequence

Marcia Dutra Ramos Silva[1], Hugo Santos Silva[1], Sandra Lúcia Nogueira[1], Françoise Serein Spirau, Thibaut Jarrosson, Jean Pierre Lère Porte, Alexandre Marletta[1]; [1]Universidade Federal de Uberlândia

SP1-K15 - Poly(3-alkylthiophenes) Langmuir-Blodgett films for VOC detection

Clarissa Olivati, Bruno Nunes, Vanessa Gonçalves, Debora Balogh

SP1-K16 - Electrical measurements of perylene derivative fabricated via physical vapor deposition

Maria Luisa Braunger[1], Priscila Alessio Constantino[2], Carlos José Leopoldo Constantino, Clarissa Olivati; [1]Fct-Unesp Campus de Presidente Prudente, [2]Universidade Estadual Paulista "júlio de Mesquita Filho" - Campus Presidente Prudente

SP1-K17 - Linear and nonlinear optical properties of the thiophene-phenylene-based oligomer and polymer

Marceçp Gonçalves Vivas, Sandra Lúcia Nogueira[1], Raigna Augusta da Silva Zadra Armond, Cleber R. Mendonça; [1]Universidade Federal de Uberlândia

SP1-K18 - Charge Carrier Mobility in Polymeric Materials for Organic Solar Cell Application

Juliana de Fátima Prestes Souza[1], Leni Campos Akcelrud, Sandra Melo Cassemiro, Edemir Luiz Kowalski; [1]Universidade Federal do Paraná

SP1-K19 - Thin films deposited by equipment printing of electronic polymers through electronic injection system to use in dosimeter

Adriana Diniz Barbosa, Robson Nunes Dal Col, Sávio Augusto Lopes da Silva, Rodrigo Fernando Bianchi

SP1-K20 - Bulk-HeterojunctionOrganic Solar Cells: area-dependent parameters fluctuation

António José Trindade, Mauro Goncalo Santos, Luiz Pereira

SP1-K21 - Absorption and photoconductivitymeasurements on MEH-PPV / PCBM bulk heterojunction organic solar cell active layer

Cláudia Martins, António José Trindade, Luís Rino, Luiz Pereira

SP1-K22 - Colormodulation in Organic Light Emitting Diodes using complementary color emitters:the search for white emission

João Costa, João Dinis, Luiz Pereira

SP1-K23 - Organic White Light Electroluminescent Device: Searching for Fluorescent Material

Elvo Calixto Burini Junior, Gerson Santos, Emerson Roberto Santos, Wang Shu Hui, Ely Antonio Tadeu Dirani, Fernando Josepetti Fonseca[1], Adnei Melges Andrade; [1]Escola Politécnica da Universidade de São Paulo

SP1-K24 - Interface effects on optical properties of the active organic layer in OLED`s
Alessandra Pereira[1], Gilmar Conte, Hugo Alejandro Gallardo Olmedo, Angelo Danilo Faceto, Welber Gianini Quirino, Francisco E.g. Guimaraes[2], Ivan Helmuth Bechtold; [1]Universidade Federal de Santa Catarina, [2]Universidade de São Paulo - Instituto de Física de São Carlos

SP1-K25 - Preparation of Si-C by sol-gel method
Kaled Charradi Charradi

SP1-K26 - Organic Field Effect Transistor using polystyrene and poly-3-hexyl thiophene
Washington da Silva Sousa[1], Alexandre de Castro Maciel[2], Roberto Mendonça Faria[2]; [1]Universidade de São Paulo - Instituto de Física de São Carlos, [2]Instituto de Física de São Carlos

SP1-K27 - Preparation of gold nanoparticles in the presence of poly [3-(2-hydroxyethyl)thiophene] (PHET) in methoxyethanol
Rafaela Cristina Sanfelice[1], Débora Teresia Balogh, Vanessa Cristina Gonçalves[2], Marcelo de Assunção Pereira da Silva[3]; [1]Universidade de São Paulo - Instituto de Física de São Carlos, [2]Instituto de Química, [3]Instituto de Física de São Carlos

SP1-K28 - Thermally stimulated depolarization current studies in thin films of sulfonated polystyrene ionomers
Washington da Silva Sousa[1], Alexandre de Castro Maciel[2], Antonio Jose Felix Carvalho, Roberto Mendonça Faria[2]; [1]Universidade de São Paulo - Instituto de Física de São Carlos, [2]Instituto de Física de São Carlos

SP1-K29 - Faster growth processes of sulfonated polyaniline film and its application in vertical transistors
Keli Fabiana Seidel, Lucieli Rossi[1], Ivo Alexandre Hummelgen; [1]Universidade Federal do Paraná

SP1-K30 - Equivalent circuit model for multilayers of PAMAM/SWNT in EIS devices
Marcos Moura, José Roberto Siqueira Jr, Andrés Vercik, Osvaldo Novais Oliveira Jr

SP1-K31 - Vertical Organic Field Effect Transistor with polyvinyl alcohol as a gate insulator
Lucieli Rossi[1], Keli Fabiana Seidel, Wagner Souza Machado[1], Ivo Alexandre Hummelgen; [1]Universidade Federal do Paraná

SP1-K32 - Poly(p-phenylene vinylene) nanostructured film modified with chloride produced by Langmuir-Blodgett technique
Andrei Sakai[1], Laura Oliveira Péres, Luciano Caseli[1]; [1]Universidade Federal de São Paulo

SP1-K33 - Nonlinear Conductivity of Fullerenol Aqueous Solutions
Roberto Batista Sardenberg[1], Carlos Teixeira, Mauricio Veloso Brant Pinheiro, José Figueiredo; [1]Universidade Federal de Minas Gerais

SP1-K34 - New hybrid material of europium complex with PMMA: Photodegradation study under UV-exposure
Rodolfo Rodrigues Nunes da Silva[1], Cristiane Kelly de Oliveira, Severino Alves Junior, Ivani Malvestiti; [1]Universidade Federal de Pernambuco

SP1-K35 - Fluorene, Thiophene and Phenylene Containing Terpolymers: Correlations Between Composition and Physical Properties
Bruno Nowacki, Gregório Couto Faria[1], Raquel Domingues, Teresa Dib Zambon Atvars[2], Leni Campos Akcelrud; [1]Universidade de São Paulo - Instituto de Física de São Carlos, [2]Universidade Estadual de Campinas

SP1-K36 - Electrical and thermal characterization of thin films of polyaniline/cashew nut shell liquid – Pani/CNSL
Helder Nunes da Cunha[1], Iran Silva Guimarães, Jose Ribeiro Santos Junior; [1]Universidade Federal do Piauí

SP1-K37 - Electrical characterization of poly(amide-imide) thin films
Ricardo Sussumu Ywata[1], Flávio Makoto Shimizu[1], Élder Mantovani Lopes[2], Neri Alves, Antonio Jose Felix Carvalho, José Alberto Giacometti[2]; [1]Fct-Unesp Campus de Presidente Prudente, [2]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

SP1-K38 - Synthesis and Characterization of Blue Polymer Emitter, Poly[(9,9-dihexylfluorenediylvinylene-alt-1,4-phenylenevinylene)-co–(9,9-(3-t-butylpropanoate)fluorene-1,4-phenylene)], LaPPS42.
Bruno Davies Fontes, Gregório Couto Faria[1], Paula Cristina Rodrigues, Leni Akcelrud; [1]Universidade de São Paulo - Instituto de Física de São Carlos

SP1-K39 - Layer-by-Layer technique foreseeing developments in proton exchange membranes
Celina Massumi Miyazaki[1], Tiago Pedroso de Almeida, Cléber Aparecido Rocha Dantas, Antonio Riul Jr.[2]; [1]Universidade Estadual Paulista "julio de Mesquita Filho" - Posmat, [2]Universidade Federal de São Carlos - Campus Sorocaba

SP1-K40 - Synthesis of Polymeric Microtubes Produced by Self-Assembly Technique
Andrea Ferreira Silva[1,2], Raquel Milani[2], Paulo Jorge

Passos Dos Santos, Daniel Amancio Duarte[2], Giovanna Machado; [1]Universidade Federal de Pernambuco, [2]Centro de Tecnologias Estratégicas do Nordeste

SP1-K41 - Theoretical studies of electronic properties of the fluorene-based copolymers and their model compounds

José Maximiano F. Pinheiro[1], Marília J. Caldas, Xinguo Ren, Patrick Rinke, Volker Blum, Matthias Scheffler; [1]Universidade de São Paulo

SP1-K42 - Use Hybrid TiO2/P3HT active layer for photovoltaic organic cells

Filipe Gonçalves da Silva[1], Roberto Mendonça Faria[2], Antonio Jose Felix Carvalho; [1]Universidade de São Paulo - Materias - Eesc, [2]Instituto de Física de São Carlos

SP1-K43 - Inks based on polyaniline blends for printing conductive tracks by inkjet technique

Josiani Cristina Stefanelo[1], Bruno Bassi Millan Torres[1], Roberto Mendonça Faria[1]; [1]Instituto de Física de São Carlos

SP1-K44 - Synthesis, structural characterization, photo-physical and photovoltaic properties of a thiophene-fluorene copolymer

Isabel Romero Grova, Douglas José Coutinho[1], Roberto Mendonça Faria[1], Leni Campos Akcelrud; [1]Instituto de Física de São Carlos

SP1-K45 - Energy Transfer Control In P3OT Films Synthesized by Electrochemistry

Eralci M. Therézio[1], Flavio Franchello[2], Mauricio Foschini[2], Otávio L. Bottecchia, Henrique de Santana, José L. Duarte, Alexandre Marletta[2]; [1]Universidade Federal de Uberlândia, [2]Universidade Estadual de Londrina

SP1-K46 - Processing and thermal properties of nanocomposites of PET/Multi-walled carbon nanotubes

Gabriela Lamounier Pereira Alves[1], Isaac Cassio Neves de Souza[1], Valdir Mano, Marco Antonio Schiavon[1]; [1]Universidade Federal de São João Del Rei

SP1-K47 - Synthesis and ordering of polystyrene nanospheres

Viviane Zurdo Costa[1], Graziâni Candiotto, Edna Regina Spada, Tatiana Silva, Maria Luisa Sartorelli[1]; [1]Universidade Federal de Santa Catarina

SP1-K48 - Au effect on electron-phonon coupling of poly(p-phenylenevinylene)

Eralci M. Therézio[1], Ángel Alberto Hidalgo, Osvaldo Novais Oliveira Jr, Raigna Augusta da Silva Zadra Armond, Alexandre Marletta[1]; [1]Universidade Federal de Uberlândia

SP1-K49 - Electrical properties of Polythiophen on monolayers self-assembled.

Ana Claudia Tasinaffo Alves[1], George Barbosa da Silva, Fernando Fabris[1], Wilhan Donizete Gonçalves Nunes, Josmary Rodrigues Silva[1], Douglas José Correia Gomes[1]; [1]Universidade Federal de Mato Grosso/ Barra do Garças

SP1-K50 - Humidity sensor made of PANI strips printed on white paper

Neri Alves, Tiago Carneiro Gomes, Fernando Pereira Sabino[1], José Alberto Giacometti; [1]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

SP1-K51 - Fabrication and Characterization of Bottom-contact Top-gate P3HT FET for sensing application

Rafael Furlan de Oliveira[1], Neri Alves, Marystela Ferreira; [1]Universidade Estadual Paulista "júlio de Mesquita Filho"

SP1-K52 - Photophysical and Photovoltaic Properties of a PPV type Copolymer Containing Alternated Fluorene and Thiophene Units

Paula C. Rodrigues, Leni Campos Akcelrud

SP1-K53 - Electrical Properties of Thin PAni-ITO Films

Gislayne Elisana Gonçalves[1], Mirela de Castro Santos, Rodrigo Fernando Bianchi; [1]Universidade Federal de Ouro Preto

SP1-K54 - Scaling laws applied to LBL ferrofluid films

Marta Elisa Rosso Dotto[1], Daniel Salvador[1], Ivan Helmuth Bechtold; [1]Universidade Federal de Santa Catarina

SP1-K55 - Study of the conduction processes in composites of PANI / ITO below the percolation threshold

Lilian Soares Cardoso[1], Haroldo Naoyuki Nagashima[2], Darcy Hiroe Fujii Kanda, Gislayne Elisana Gonçalves[3], Rodrigo Fernando Bianchi; [1]Universidade Estadual Paulista/faculdade de Engenharia de Ilha Solteira, [2]Faculdade de Engenharia - Campus de Ilha Solteira, [3]Universidade Federal de Ouro Preto

SP1-K56 - The Influence of Fluorene and Phenylene Groups in Alternating Copolymers

Thays C. F. Santos, Fábio C. Correia, Fábio Santana Dos Santos, Wang Shu Hui, Jarem Raul Garcia[1], Laura Oliveira Péres; [1]Universidade Estadual de Ponta Grossa

SP1-K57 - Effect of layer thickness on the performance of solar cells based on

polymer:fullerene bulk heterojunction (BHJ)
Douglas José Coutinho[1], Roberto Mendonça Faria[1]; [1]Instituto de Física de São Carlos

SP1-K58 - Flow analysis in microfluidic chip
Cristiane Margarete Daikuzono[1], Cléber Aparecido Rocha Dantas, Maria Helena Piazetta, Angelo Gobbi, Antonio Riul Jr.[1]; [1]Universidade Federal de São Carlos - Campus Sorocaba

SP1-K59 - The effect of light in organic MIS capacitor
Fernando Pereira Sabino[1], Élder Mantovani Lopes[1], José Alberto Giacometti, Neri Alves; [1]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

SP1-K60 - Synthesis and characterization of sulfonated poly-{styrene-co-vinyl acetate}
Marcos Marques da Silva Paula, João Vitor Lara, Marcio Antonio Fiori, Roberto Benavides Cantu, Barbara Lummertz Santana, Luciano da Silva

SP1-K61 - Study of electrical conduction processes in conducting polymers near percolation
Haroldo Naoyuki Nagashima[1], Roberto Mendonça Faria[2]; [1]Faculdade de Engenharia - Campus de Ilha Solteira, [2]Instituto de Física de São Carlos

SP1-K62 - Fabrication and electric characterization of aluminum oxide ultra-thin films
Marcelo Marques da Silva[1], Neri Alves, Élder Mantovani Lopes[2], José Alberto Giacometti; [1]Fct-Unesp Campus de Presidente Prudente, [2]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

SP1-K63 - A Nanocarrrier Charge Model for the Transport in Poly(o-alkoxyanilines)
Fabio Lima Leite, Marcelo L Simões, Mario Oliveira Neto, Pedro Augusto de Paula Nascente[1], Carlos José Leopoldo Constantino, Luiz Caparelli Mattoso, Osvaldo Novais Oliveira Jr; [1]Universidade Federal de São Carlos

TUESDAY , SEPTEMBER 27TH
SESSION SP2
14:00 - 16:00 - Exhibition Hall

SP2-K64 - Palladium nanoparticles stabilized with glucose oxidase enzyme incorporated in PPV-Stearic Acid film: implication in luminescent and conducting properties
Luciano Caseli[1], Thiago Eichi Goto, Andrei Sakai[1], Rodrigo M Iost, Frank Nelson Crespilho, Laura Oliveira Péres; [1]Universidade Federal de São Paulo

SP2-K65 - Characterization of Langmuir films composed of polyaniline and montmorillonite clay
Anerise de Barros[1,2], Mariselma Ferreira, Marystela Ferreira; [1]Universidade Federal de São Carlos, [2]Universidade Estadual Paulista

SP2-K66 - Optimized conditions of crystallization in solution for obtaining β phase films of poly(vinylidene fluoride)
Gustavo Ruivo Salmazzo[1], Marcio José Rodrigues Amorin, Evaristo Alexandre Falcão[1], Anderson Rodrigues Lima Caires, Eriton Rodrigo Botero[1]; [1]Fundação Universidade Federal da Grande Dourados

SP2-K67 - Development of genosensors containing functionalized oligonucleotides and AuNPs for advanced diagnosis of blood hypertension.
Thalita Verônica Calheiros Rolim[1], Valtencir . Zucolotto; [1]Universidade de São Paulo

SP2-K68 - Biological Membrane Mimetic Systems Applied as Transducers for Detection of Phenothiazine in Highly Diluted Systems
Pedro Henrique Benites Aoki[1], Priscila Alessio Constantino[2], Antonio Riul Jr.[3], Carlos José Leopoldo Constantino; [1]Fct-Unesp Campus de Presidente Prudente, [2]Universidade Estadual Paulista "júlio de Mesquita Filho" - Campus Presidente Prudente, [3]Universidade Federal de São Carlos - Campus Sorocaba

SP2-K69 - Langmuir Monolayers Containing Crude Extract of Urease For Developing Biosensors
Juliana Coatrini Soares[1], V P. N. Geraldo, Edgar A Sanches[2], Osvaldo Novais Oliveira Jr; [1]Universidade de São Paulo, [2]Instituto de Física de São Carlos

SP2-K70 - Supramolecular Structures Containing Phospholipids for Sensing Applications
Carlos José Leopoldo Constantino, Pedro Henrique Benites Aoki[1], Priscila Alessio Constantino[2]; [1]Fct-Unesp Campus de Presidente Prudente, [2]Universidade Estadual Paulista "júlio de Mesquita Filho" - Campus Presidente Prudente

SP2-K71 - Mucin and chitosan nanoassembled in phospholipid Langmuir monolayers andLangmuir-Blodgett films: the role of chitosan in molecular level interactions
Cristiane Aparecida Silva[1], Thatyane Morimoto Nobre[1], Felippe Jose Pavinatto, Osvaldo Novais Oliveira Jr; [1]Instituto de Física de São Carlos

SP2-K72 - The interaction of metal nanoparticles with cell membrane models for nanotoxicity evaluation
Thiers Massami Uehara[1], Paulo Barbeitas Miranda,

Valtencir . Zucolotto; [1]Universidade de São Paulo

SP2-K73 - Layer-by-Layer Films Containing Nickel Phthalocyanine and DODAB for Sensing Applications

Leonardo Negri Furini[1], Carlos José Leopoldo Constantino, Eloi Feitosa; [1]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

SP2-K74 - Physical-chemistry studies and biological activity tests of Curcumin-Nanoemulsion as a new nanomaterial to cancer therapy

Júlia . Martins[1], Fernando Lucas Primo, Ana Claudia Pavarina, Antonio Claudio Tedesco; [1]Universidade de São Paulo

SP2-K75 - Interaction of Congo Red with bovine serum albumin

Izuleide Morais Rosa[1], Gleidson Cardoso[1], Jackeline Barbosa Brito[1], Romario Justino da Silva[1], Josmary Rodrigues Silva[1], Nara Cristina de Souza[1]; [1]Universidade Federal de Mato Grosso/ Barra do Garças

SP2-K76 - Nanostructured films from carbon nanotubes: surface morphology and electrical characterization

Jackeline Barbosa Brito[1], Douglas José Correia Gomes[1], Vanessa D Justina, Aline Margarete Furuyama Lima[1], Clarissa Olivati, Josmary Rodrigues Silva[1], Nara Cristina de Souza[1]; [1]Universidade Federal de Mato Grosso/ Barra do Garças

SP2-K77 - Tartrazine dye: the influence of the concentration and pH

Jackeline Barbosa Brito[1], Gean P.s Aguiar, Julio C.j. Flores, Josmary Rodrigues Silva[1], Nara Cristina de Souza[1]; [1]Universidade Federal de Mato Grosso/ Barra do Garças

SP2-K78 - Layer-by-Layer films from BSA and Ferrofluid

Polliana Rodrigues Coelho[1], Rafael Roberti Gil Maciel[1], Josmary Rodrigues Silva[1], Nara Cristina de Souza[1]; [1]Universidade Federal de Mato Grosso/ Barra do Garças

SP2-K79 - Nanostructured films prepared by spray and LbL techniques: effect of irradiation time on surface morphology

Gleidson Cardoso[1], Romario Justino da Silva[1], Nara Cristina de Souza[1], Josmary Rodrigues Silva[1]; [1]Universidade Federal de Mato Grosso/ Barra do Garças

SP2-K80 - PVD Films of Perylene Derivatives: Molecular Architecture Comparison

Priscila Alessio Constantino[1], Carlos José Leopoldo Constantino; [1]Universidade Estadual Paulista "júlio de Mesquita Filho" - Campus Presidente Prudente

SP2-K81 - Development and characterization of a polymericnanoemulsion as a drug delivery system forphenylthio zinc phthalocyanine`

João Marcos Gonçalves[1], Fernando Lucas Primo, Juliana Campos Junqueira, Antonio Claudio Tedesco; [1]Ffclrp - Universidade de São Paulo

SP2-K82 - Immobilization of monoamine oxidase encapsulated into liposomes and its application as biosensor

Marli Moraes, Osvaldo Novais Oliveira Jr, Marystela Ferreira

SP2-K83 - Investigating Capsaiscinoids Non-Neuronal Effects Using Langmuir Monolayers

Luciano Caseli[1], Yurika Okamoto Iwaki, Thatyane Morimoto Nobre[2], Osvaldo Novais Oliveira Jr; [1]Universidade Federal de São Paulo, [2]Instituto de Física de São Carlos

SP2-K84 - Incorporation and immobilization of Aloe vera into liposomes films for application in drug delivery

Aline Carla Farrapo Xavier, Marli Moraes, Marystela Ferreira

SP2-K85 - Spectroscopic study of nanostructured films containing carbon nanotubes and nickel phthalocyanines for biosensing

Lilian Maria Pessoa da Cruz Centurion[1], Valtencir . Zucolotto; [1]Universidade de São Paulo

SP2-K86 - Natural rubber gold nanoparticles with organic electrodes for study of enzymatic catalysis

Flávio Camargo Cabrera[1], Edson G. R. Fernandes, Rodrigo M Iost, Valtencir Zucolotto, Frank Nelson Crespilho, José Alberto Giacometti[2], Aldo Eloizo Job; [1]Universidade Estadual Paulista "júlio de Mesquita Filho", [2]Fct-Unesp Campus de Presidente Prudente

SP2-K87 - Effect of side chain length on Langmuir and Langmuir-Blodgett films of azopolymer/poly(alkyl methacrylate)s mixtures

Lucineia Ferreira Ceridorio[1], Débora Teresia Balogh, Osvaldo Novais Oliveira Jr; [1]Instituto de Física de São Carlos

SP2-K88 - Development of Novel Biocomposites Conjugating Gold Nanoparticles and Proteins for biomedical applications

Valéria Spolon Marangoni, Valtencir . Zucolotto, Ieda Maria Paino

SP2-K89 - Kinetic study of the PPO enzyme inhibition by benzoic acid for use in electrochemical biosensors

André Brisolari[1], Valquiria Rodrigues, Juliana

Coatrini Soares[2], Débora Gonçalves; [1]Instituto de Física de São Carlos, [2]Universidade de São Paulo

SP2-K90 - Electronic Tongue System: tainting compounds detection

Guilherme de Souza Braga, Leonardo Giordano Paterno, Fernando Josepetti Fonseca[1]; [1]Escola Politécnica da Universidade de São Paulo

SP2-K91 - Crystallization processes of proteins and small organic molecules

Adriele Aparecida Almeida[1], Odin G.c Godinho[1], Jackeline Barbosa Brito[1], Douglas José Correia Gomes[1], Josmary Rodrigues Silva[1], Nara Cristina de Souza[1]; [1]Universidade Federal de Mato Grosso/ Barra do Garças

SP2-K92 - Nanostructured films from erytrosin: the influence of the solution temperature

Odin G.c Godinho[1], Jackeline Barbosa Brito[1], Josmary Rodrigues Silva[1], Nara Cristina de Souza[1]; [1]Universidade Federal de Mato Grosso/ Barra do Garças

SP2-K93 - Metal-Organic Framework Eu(1,3,5-BTC) as Luminescent Marker for Gunshot Residue

Marcella Auxiliadora de Melo Lucena[1], Ingrid Tavora Weber, Adenaule James Geber de Melo, Severino Alves Junior, Marcelo Oliveira Rodrigues; [1]Universidade Federal de Pernambuco

SP2-K94 - Synthesis and characterization of natural rubber with bimetallic gold and silver nanoparticles (Au-Ag)

Leandra Oliveira Salmazo, Flávio Camargo Cabrera[1], Aldo Eloizo Job; [1]Universidade Estadual Paulista "júlio de Mesquita Filho"

SP2-K95 - Conformational, Optical , and Vibrational Properties of Calix[4]arene and Calix[6]arene

Valeria Aparecida Mattar Vilas Boas, Valeria Aparecida Mattar Vilas Boas

SP2-K96 - Optimization of the film production of pepsin for the detection of hemoglobin

Paulo André Tavares[1], Marystela Ferreira; [1]Universidade Federal de São Carlos - Campus Sorocaba

SP2-K97 - Development of hydroxyapatite into Pluronic F 127 composites

Vanessa Danielle de Oliveira Fortes, Zaine Teixeira, Wandeberg Aranha Diniz

SP2-K98 - Electrochemical synthesis of polyaniline by pulsed deposition and characterization of the films

Taíse Matte Manhabosco[1], Syro Lacerda, Bruna Postacchini, Iduvirges Lourdes Müller; [1]Universidade Federal de Ouro Preto

SP2-K99 - Structural Phase Transition and Fe-doped Dipeptide Nanotubes

Paula Maria Gabriela Leal Ferreira[1], Bruno Barros Cunha, Fabio Furlan Ferreira[1], Wendel Andrade Alves, Jose Antonio Souza; [1]Universidade Federal do Abc

SP2-K100 - Metal Biosensor based on polystyrene sulfonic and Moringa oleifera

Marcela Félix Chaves Ferreira[1], Alexandre Marletta[1], Mauricio Foschini[1], Franciellen Ferreira, Silésia de Fátima Curcino da Silva[1]; [1]Universidade Federal de Uberlândia

SP2-K101 - Nanoparticles from ultrasound-processed chitin

Erika Virginia Raphael de Almeida[1], Mario Sérgio Mariano, Sérgio Paulo Campana Filho[2]; [1]Universidade de São Paulo - Instituto de Química de São Carlos, [2]Universidade de São Paulo - Eesc/ifsc/iqsc

SP2-K102 - Azodye photoisomerization process in luminescent layer-by-layer poly(p-phenylenevinylene) / Congo Red films

Gustavo Gonçalves Dalkiranis[1], Eralci M. Therézio[1], Luiz Carlos Poças, José L. Duarte, Edson Laureto, Ivan Dias, Alexandre Marletta[1]; [1]Universidade Federal de Uberlândia

SP2-K103 - Immobilization of Glucose Oxidase into liposomes for application in amperometric glucose biosensor

Victor Vieira de Moraes Neto[1], Marystela Ferreira, Marli Leite Moraes; [1]Universidade Federal de São Carlos - Campus Sorocaba

SP2-K104 - Study of hemoglobin as electrochemical mediator in LbL films for application to cholesterol biosensor

Tâmera Tais Lima Souza, Marli Leite Moraes, Marystela Ferreira

SP2-K105 - Structure-properties relationship and polarization effect on the two-photon absorption of push-pull triarylamine compounds

Marceçp Gonçalves Vivas, Leonardo de Boni, Cleber R. Mendonça

SP2-K106 - Adsorption process in layer-by-layer and spray films of erythrosin and BSA

Rafael Roberti Gil Maciel[1], Jackeline Barbosa Brito[1], Josmary Rodrigues Silva[1], Nara Cristina de Souza[1]; [1]Universidade Federal de Mato Grosso/ Barra do Garças

SP2-K107 - Nanostructured layer-by-layer films from trans-resveratrol and wine: adsorption and morphological properties

Marcio do Nascimento Gomes[1], Jackeline Barbosa Brito[1], Josmary Rodrigues Silva[1], Nara Cristina de Souza[1]; [1]Universidade Federal de Mato Grosso/ Barra do Garças

SP2-K108 - Incorporation of Chitosan and Human Pancreatic Lipase onto Langmuir monolayer of lipid

Adriano Lopes de Souza[1], Felippe Jose Pavinatto, Luciano Caseli[2], Osvaldo Novais Oliveira Jr; [1]Instituto de Física de São Carlos, [2]Universidade Federal de São Paulo

SP2-K109 - Optical characterization of E7® liquid crystal doped with 5A chromophore.

Gustavo Gonçalves Dalkiranis[1], Ivan Helmuth Bechtold, Alexandre Marletta[1]; [1]Universidade Federal de Uberlândia

SP2-K110 - Reparametrization of UFF for thiophene oligomers, polymers and derivatives

Marcelo Alves Dos Santos, Regina Lélis-Sousa, Rodrigo Ramos, Marília J. Caldas

SP2-K111 - Multifunctional nanostructured films from congo red dyeand multi-walled nanotubes: adsorption kinetics, surfacemorphology, and electrical conductivity

Romario Justino da Silva[1], Josmary Rodrigues Silva[1], Nara Cristina de Souza[1], Gleidson Cardoso[1]; [1]Universidade Federal de Mato Grosso/ Barra do Garças

SP2-K112 - Nanostructured films from sinapinic acid alternated with PAH: effects of light irradiation on spectroscopic and surface morphology properties

Cleverson Alves Silva Moura[1], Nara Cristina de Souza[1], Josmary Rodrigues Silva[1]; [1]Universidade Federal de Mato Grosso/ Barra do Garças

SP2-K113 - Electrical and Optical Properties of Thin Films of Quercetin

José da Silva, Fernando Fabris[1], George Barbosa da Silva; [1]Universidade Federal de Mato Grosso/ Barra do Garças

SP2-K114 - Molecular photoinduced orientation in natural rubber

Douglas José Correia Gomes[1], Adriana S Cavalhere, Aldo Eloizo Job, José Alberto Giacometti[2], Osvaldo Novais Oliveira Jr, Nara Cristina de Souza[2], Josmary Rodrigues Silva[2]; [1]Universidade Federal de Mato Grosso/ Barra do Garças, [2]Fct-Unesp Campus de Presidente Prudente

SP2-K115 - Biomimetic Sensors Based on Nanostructured Platforms for Phenol Detection

Edson G. R. Fernandes, Laís C. Brazaca, María Luz Rodríguez-Méndez, José Antonio de Saja, Valtencir . Zucolotto

SP2-K116 - Hybrids materials of gold doped amino acids crystals

Vicente Lira Kupfer[1], Cleiser Tiago Pereira Silva, Silvia M Souza, Eriton Rodrigo Botero[2], Nelson Luis Domingues, Andrelson Wellington Rinaldi; [1]Universidade Federal da Grande Dourados, [2]Fundação Universidade Federal da Grande Dourados

SP2-K117 - Immobilization of Phytase encapsulated into liposome for the determination of phytic acid in standard solutions

Valquiria Rodrigues, Marli Leite Moraes, André Brisolari[1], Marystela Ferreira, Débora Gonçalves; [1]Instituto de Física de São Carlos

SP2-K118 - Elastomeric micro/submicron fibers produced by electrospinning method

Fernanda Stieven Soares, Isabel Roggia, Cláudio Nunes Pereira[1]; [1]Tecnano Pesquisas E Serviços Ltda.

SP2-K119 - Stimuli-responsive Poly(N-vinylcaprolactam-co-acrylic acid) nanoparticles by nanoprecipitation method

Bárbara Rezende Lara[1], Simone de Fátima Medeiros, Amilton Martins Dos Santos; [1]Escola de Engenharia de Lorena - Usp

SP2-K120 - Development of Biosensors Using Peptide Nanotubes modified with Microperoxidase-11

Thiago Carvalho Cipriano, Rondes Ferreira Silva, Wendel Andrade Alves

SP2-K121 - A colorimeter method validation for rodhamine B photodegradation assessment in cellulose acetate nanofibers

Cândida Raquel Scherer Montero, Sandra Jussara Nunes Silva, Fernanda Stieven Soares, Aline Procedi, Patricia Pranke[1], Cláudio Nunes Pereira[2]; [1]Federal University Of Rio Grande do Sul, [2]Tecnano Pesquisas E Serviços Ltda.

SP2-K122 - Theoretical Study of Interactions between Cd and DNA Bases

Philippe Alexandre Divina Petersen, Helena Maria Petrilli, Marcos Brown Gonçalves

SP2-K123 - Synthesis and characterization of polyaniline doped with oleic acid

Vicente Lira Kupfer[1], Keurison Figueredo Magalhãe, Samuel Leite Oliveira, Anderson Rodrigues Lima Caires, Nelson Luis Domingues, Andrelson Wellington Rinaldi; [1]Universidade Federal da Grande Dourados

SP2-K124 - Porphyrin-Sensitized Polymers for Use

in Photovoltaic Cells: Synthesis and Properties
Angelita Maria Machado, Leni Campos Akcelrud
SP2-K125 - Chemical Force Microscopy with Enzymes: Applications for Detecting Herbicides
Fabio Lima Leite, Osvaldo Novais Oliveira Jr, Paulo Sergio de Paula Herrmann[1], Eduardo de Faria Franca, Luiz Gomide Freitas; [1]Embrapa Instrumentação
SP2-K126 - Solvent effect on the Q-band shape of cationic porphyrins
Renato Neiva Sampaio[1], Erick Piovesan, Marília Batista Silva, Mariana Oliveira Borges, Antonio Eduardo da Hora Machado, Rodrigo de Paula, Newton Martins Barbosa Neto[2]; [1]Universidade Federal de Uberlândia, [2]Universidade Federal de Minas Gerais

SYMPOSIUM L

Structure-Property Relationship of Ceramic Materials: Theoretical and Experimental Aspects

Chairs

Carlos Pérez Bergmann - (UFRGS)
Elson Longo (Unesp)
Julio Ricardo Sambrano (Unesp)
Juan Andrés (Universitat Jaume I, Spain)
Wilson Acchar (UFRN)
Valerie Bouquet (Université Rennes1, France)
Shay Reboh (CEMES, Toulouse, France)

ORAL PRESENTATIONS

* Invited Lecture

MONDAY , SEPTEMBER 26TH

SESSION L1
09:30 - 10:30 - Room 01

09:30 - L1.1*
Interplay of Theory and Experimental Investigations in Solid State Phenomena, Material Science and Nanotechnology
Lourdes Gracia Edo[1]; [1]Universitat Jaume I
10:00 - L1.2
Mechanical properties and dissolution behavior of c-axis preferentially oriented bioceramic hydroxyapatite thin films
Renato P. Camata, Yogesh K. Vohra, Hyunbin Kim
10:15 - L1.3
Structural and electrical characterization of Co doped bismuth manganite nanoparticles
Muhammad Anis-Ur -Rehman, Khush Bakht Akram

SESSION L2
11:00 - 12:30 - Room 01

11:00 - L2.1*
Essential Steps for the Success of a Nanotechnology Joint-Venture Manufacture
Ademir Zanota[1]; [1]Syngenta
11:30 - L2.2
Analysis of Brazilian quartz supply for flame-fused silica glass production
Eduardo Ono, Christiano P. Guerra, Murilo F. M. Santos, Delson Torikai, Carlos K. Suzuki
11:45 - L2.3
Load Transfer in Ceramic Matrix Composites: A Simplified Shear-Lag Model
Joao Gustavo Pereira da Silva, Dachamir Hotza, Rolf Janssen, Hazim Ali Al-Qureshi
12:00 - L2.4
Bone as "Composite Material"
Ahmet Hikmet Ucisik, Mehmet Hikmet Ucisik, Isil Kutbay, Cuma Bindal, Metin Usta, Ahmet Gul
12:15 - L2.5
Low loading Ti-doped Zr for ethanol sensor
Kleper de Oliveira Rocha[1], Sonia Maria Zanetti[1]; [1]Sencer Sensores Cerâmicos

SESSION L3
15:00 - 16:00 - Room 01

15:00 - L3.1
Interaction of small molecules on zinc oxide surfaces: LCAO and plane wave
João Batista Lopes Martins[1], Elton A. S. Castro, Ricardo Gargano, Elson Longo, Sergio A. de S. Farias; [1]Universidade de Brasília
15:15 - L3.2
Ozawa method applied in the evaluation thermokinetic of acid sites in lanthanum-doped mesoporous vermiculite
Marcus Venicio da Silva Fernandes[1], Sara Regina Moura Figueiredo Porto, Lindomar Roberto Damasceno da Silva; [1]Universidade Federal do Ceará
15:30 - L3.3
Boehmite prepared by sol gel route applied as ethanol sensor
Kleper de Oliveira Rocha[1], Sonia Maria Zanetti[1]; [1]Sencer Sensores Cerâmicos

15:45 - L3.4
Photoluminescence induced by epitaxy in thin films of MSnO3 (M= Ca or Sr) obtained by CSD
Mary Cristina F Alves[1], Paulo Sergio Pizani, Elson Longo, Antônio Gouveia Souza, Maryline Guilloux-Viry, Valérie Bouquet, Iêda Maria Garcia Santos[1]; [1]Universidade Federal da Paraíba

TUESDAY , SEPTEMBER 27TH

SESSION L4
09:30 - 10:30 - Room 01

09:30 - L4.1*
Refractory microstructure engineering: Fundamentals, production and imagination
Victor Carlos Pandolfelli
10:15 - L4.2
Characterizing permeability and micro- mesopore structure of tight gas sands using transient pulse decay and nitrogen gas adsorption techniques
Mayka Schmitt, Celso Peres Fernandes, Fabiano Gilberto Wolf, Giuseppe Zanella Sampaio[1]; [1]Universidade Federal de Santa Catarina
10:30 - L4.3
Cation exchange in aqueous clay suspensions with lithium, sodium and potassium-based deflocculants
Deyse Gonzaga Gomes Delavi[1,2,3], Agenor de Noni Jr, Dachamir Hotza; [1]Universidade Federal de Santa Catarina, [2]Universidade do Extremo Sul Catarinense, [3]Instituto Maximiliano Gaidzinski

SESSION L5
11:00 - 12:30 - Room 01

11:00 - L5.1*
On the ionic conductivity of ceria/zirconia superlattices: theoretical and experimental approaches
Enrico Traversa
11:30 - L5.2
Photoluminescence in the $SrSnO_3:Fe^{3+}$ perovskite
Fagner Gomes Vieira, Graziela Casali, Paulo Sergio Pizani, Elson Longo, Ary da Silva Maia[1], Antônio Gouveia Souza, Iêda Maria Garcia Santos[1]; [1]Universidade Federal da Paraíba
11:45 - L5.3
Ceramic matrix composites derived from TiSi2-filled polysiloxane
Breno Ferreira de Sousa[1], Aloízio Geraldo de Araújo Júnior, Tulio Hallak Panzera, Carla Patrícia Lacerda Rubinger, Marco Antonio Schiavon[1]; [1]Universidade Federal de São João Del Rei
12:00 - L5.4
Luminescent properties of Cr^{3+} ions in $SrGa_2O_4$
Ludiane Silva Lima[1], Raul José da Silva Camara Mauricio da Fonseca[1], Ricardo Borges Barthem, Ada López; [1]Universidade do Estado do Rio de Janeiro
12:15 - L5.5
Photocatalysts based on pulsed laser deposited $SrSn_{1-x}Ti_xO_3$ thin films
Andre Luiz Menezes de Oliveira, Stéphanie Députier, Valérie Bouquet, Ronan Lebullenger, Antônio Gouveia Souza, Iêda Maria Garcia Santos[1], Maryline Guilloux-Viry; [1]Universidade Federal da Paraíba

WEDNESDAY, SEPTEMBER 28TH

SESSION L6
09:30 - 10:30 - Room 01

09:30 - L6.1*
High-K, high-Q microwave dielectrics: What is the compromise today?
Danilo Suvorov
10:00 - L6.2
Alkaline activation of Brazilian metakaolin: processing against physical and durability properties
Paulo H R Borges, Vitor Alencar Nunes, Thiago Câmara Rodrigues de Souza[1], Anna Carolina Oliveira Mendes[1], Stefan Chaves Figueiredo, Matias Angeletti, Carlos Thomas[2]; [1]Centro Federal de Educação Tecnológica de Minas Gerais, [2]University Of Cantabria
10:15 - L6.3
Synthesis of Ceramic Fibers for Aerospace Application
Tiago Delbücke[1], Rogério Almeida Gouvêa[2], Sergio da Silva Cava, Neftalí Lenin Villarreal Carreño, Margarete Regina Freitas Gonçalves; [1]Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais, [2]Universidade Federal de Pelotas

SESSION L7
11:00 - 12:30 - Room 01

11:00 - L7.1*
Bismuth manganite multiferroics prepared by mechanochemical synthesis
Goran Brankovic[1], Zorica Marinković, Zvonko Jagličić, Marko Jagodič, Lidija Mančić, Aleksander Rečnik, Zorica Brankovic; [1]Instituto de Quimica Unesp

11:30 - L7.2
New Magnetic Resonance Approaches Towards the Structural Characterization of Luminescent Ceramic Materials
Hellmut Eckert[1], Heinz Deters, Andrea Simone Stucchi de Camargo[1], José Fernando de Lima, Cláudio José Magon; [1]Universidade de São Paulo - Instituto de Física de São Carlos

11:45 - L7.3
Study of the foundry sand for use on cementitious artifacts
Elidio Angioletto, Marcio Roberto da Rocha, Fernando Pelisser, Miguel Angelo Mastela, Angela Beatriz Coelho Arnt, Oscar Rubem Klegues Montedo, Alexandre Vargas

12:00 - L7.4
Energy conversion evaluated from structural parameters of $BaHfZrO_3$: The convolution of theoretical and experimental insights.
Mário Lúcio Moreira, Juan Andrés, Valmor Roberto Mastelaro[1], José Arana Varela[2], Elson Longo; [1]Universidade de São Paulo - Eesc/ifsc/iqsc, [2]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

12:15 - L7.5
Effect of RHA on the durability performance of cellulose-cement composites reinforced with eucalyptus pulp
Mariana Arruda Pereira, Stefan Chaves Figueiredo, Conrado Souza Rodrigues

SESSION L8
15:00 - 16:00 - Room 01

15:00 - L8.1
Influence of production conditions on morphology and size of hydroxyapatite particles produced via controlled precipitation route
Janaína Alves Peixoto[1], Mario Ernesto Valerio[1]; [1]Universidade Federal de Sergipe

15:15 - L8.2
Polycrystalline samples of $SrGa_2O_4:Ni^{2+}$ - Synthesis,Structural and Optical characterization
Jéssica Furtado Guimarães[1], Raul José da Silva Camara Mauricio da Fonseca[1], Ada López, Ricardo Borges Barthem; [1]Universidade do Estado do Rio de Janeiro

15:30 - L8.3
Simulation of the reaction zinc acetate with water to build zinc oxide nanoparticles
Sergio Ricardo de Lazaro[1], Aline M. D. Natal, Daniella Inglês[1], Renan Augusto Pontes Ribeiro[1], Renato Ferras Penteado[1], Sergio Mazurek Tebcherani; [1]Universidade Estadual de Ponta Grossa

15:45 - L8.4
Physical and mechanical characterization of calcium phosphate (hydroxyapatite) obtained from the gypsum
Thiago Álvares, Tales Pereira, Alan Dantas, Andrea Ferraz, Nélson Olivier

THURSDAY , SEPTEMBER 29TH

SESSION L9
09:30 - 10:30 - Room 01

09:30 - L9.1
Presence of excited electronic state in $CaWO_4$ crystals provoked by a tetrahedral distortion: An experimental and theoretical investigation
Valeria Moraes Longo, Lourdes Gracia, Laecio S. Cavalcante, Waldir Avansi, Juan Andrés, José Arana Varela[1], Elson Longo; [1]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

09:45 - L9.2
A study on foundry sand linear thermal expansion and its influency on core and mold hot properties.
Elaine Carina Carlini[1], Wilson Luiz Guesser; [1]Fundação Universidade do Estado de Santa Catarina

10:00 - L9.3
Perovskite-type $La_{1-x}Ce_xMO_3$ (M=Co,Mn) as catalysts: Synthesis and Characterization
Silvia Salua Maluf[1], Conrado Ramos Moreira Afonso[2], Elisabete Moreira Assaf, Pedro Augusto de Paula Nascente[2]; [1]Programa de Pós Graduação Em Ciência E Engenharia de Materiais da Universidade Federal de São Carlos, [2]Universidade Federal de São Carlos

10:15 - L9.4
Soil-cement and conventional masonry: A costs comparative
Tarcísio Santiago Gomes Filho[1,2], Sábata Cecília Andrade Rodrigues, Kaline Muriel de Figueiredo Gomes; [1]Universidade Federal do Rio Grande do Norte, [2]Companhia do Desenvolvimento Dos Vales do São Francisco E Parnaíba

POSTER PRESENTATIONS

MONDAY , SEPTEMBER 26TH

SESSION SP1
16:00 - 18:00 - Exhibition Hall

SP1-L1 - Characterization and Behavior of Magnesium Diboride and Boron Carbide Obtained by Metallothermic Reduction Applied in Carbon Containing Refractories
Karina Silva Campos[1], Guilherme Frederico Bernardo Lenz E Silva, Eduardo Henrique Martins Nunes, Wander Luiz Vasconcelos; [1]Universidade Federal de Minas Gerais

SP1-L2 - Optical and morphological properties of Ce-doped TiO_2-MoO_3 ceramic matrix
Samara Schmidt[1], Siara Silvestri, Sergio Mazurek Tebcherani, Evaldo Toniolo Kubaski, Thiago Sequinel[2], Graciela Aparecida Dos Santos Silva, Renata Martins Silva; [1]Universidade Estadual de Ponta Grossa, [2]Instiruto de Quimica Unesp

SP1-L3 - Synthesis of Nickel Nitrate Deposited Silica About to Obtain Ceramic Pigments Method for the Forerunners of Polymeric
Dárcia Sâmia Santos Moura[1], Everlânia Maria da Silva[1], Marcio Luis Varela Nogueira Moraes[2], Carlos Alberto Paskocimas; [1]Universidade Federal do Rio Grande do Norte, [2]Instituto Federal de Educação, Ciência E Tecnologia do Rio Grande do Norte

SP1-L4 - Piezoelectricity of Quartz Rocks and Hessdalen Lights
Gerson Silv A Paiva, Carlton Antony Taft[1]; [1]Centro Brasileiro de Pesquisas Físicas

SP1-L5 - Influence of raw materials and production process on the properties of Autoclaved Aerated Concrete (AAC)
Renata Borges Jacóe[1], Luanna Ribeiro Drumond, Conrado Souza Rodrigues; [1]Centro Federal de Educação Tecnológica de Minas Gerais

SP1-L6 - Synthesis of ceramic pigments based on Fe_2O_3-doped SnO_2.
Samara Schmidt[1], Sergio Mazurek Tebcherani, Evaldo Toniolo Kubaski, Thiago Sequinel[2], Gabriele Scheidt, Sabrina Marinho Kaplum, Thiago Domingues Holzmann; [1]Universidade Estadual de Ponta Grossa, [2]Instiruto de Quimica Unesp

SP1-L7 - Investigation on sintering behavior and combustion synthesis of nano-crystalline yttria-stabilized zirconia electrolyte
Taisa Eva Fuziger Gutierres[1], José Geraldo de Melo Furtado, Gisele Ezechiello da Silva, Rodrigo Dias, Roberto Furtado, Eduardo Torres Serra; [1]Electric Power Research Center

SP1-L8 - Stabilities of Double wall nanotubes of SiC and BN with the semi-empirical AM1 and Ab-Initio HF methods
Rogério José Costa, Jose Divino Dos Santos[1], João Batista Lopes Martins[2], Carlton Antony Taft[3], Marcos Reis Vargas, Elson Longo; [1]Universidade Estadual de Goiás, [2]Universidade de Brasília, [3]Centro Brasileiro de Pesquisas Físicas

SP1-L9 - Chemical and thermal treatments of smectite clays
Tharsia Cristiany de Carvalho Costa[1], Carlos Alberto Paskocimas, José Daniel Diniz Melo; [1]Universidade Federal do Rio Grande do Norte

SP1-L10 - Continuous synthesis by solution combustion and characterization of nanostructured tin dioxide
Micheline Dos Reis Araújo, Wilson Acchar, Carlos Alberto Paskocimas, Carlos Pérez Bergmann

SP1-L11 - Grain boundary effect on the electrical properties of CeO_2:RE_2O_3 solid electrolytes for fuel cell applications
Juliana Pivotto Nicodemo, Antonio Eduardo Martinelli[1], Reginaldo Muccillo, Eliana Navarro Dos Santos Muccillo[2], Amanda Lucena de Medeiros, Caroline Gomes Moura, Daniel Araujo de Macedo; [1]Universidade Federal do Rio Grande do Norte, [2]Energy And Nuclear Research Institute

SP1-L12 - Synthesis of PT and PZT powders by the OPM method analyzed by Raman spectroscopy and X-ray diffraction.
Liliam Kaori Yamada[1], Edson Roberto Leite, Elson Longo, Emerson Rodrigues Camargo; [1]Universidade Federal de São Carlos

SP1-L13 - Nanostructured TiO_2-based photocatalysts for water splitting hydrogen production
Juliana Mesquita de Andrade[1], José Geraldo de Melo Furtado, Rodrigo Dias, Fernando Cosme Rizzo Assunção; [1]Electric Power Research Center

SP1-L14 - The Influence of Zinc on Productivity of the Process of Catalytic Synthesis of Diamond in the system Ni-Mn-C via High Pressures and High Temperatures
Simone Souto da Silva Oliveira[1], Ana Lucia Diegues Skury; [1]State Technical School João Barcelos Martins

SP1-L15 - The study of pore-forming agents for porous ceramic substrates processing by cold roll pressing
Laís Koshimizu[1], Márcio Raymundo Morelli; [1]Universidade Federal de São Carlos

SP1-L16 - Investigation of microstructure evolution in gadolinia-doped ceria prepared with nanostructured powders
Rafael Morgado Batista[1], Eliana Navarro Dos Santos Muccillo[1]; [1]Energy And Nuclear Research Institute

SP1-L17 - The influence of solvent, pH and surfactant on the synthesis of Bi_2S_3 nanoparticles throug hydro(solvo)thermal decomposition of single source precursor
Guilherme Oliveira Siqueira[1], Geraldo Magela de Lima, Arilza de Oliveira Porto; [1]Universidade Federal de Minas Gerais

SP1-L18 - Synthesis of gray and green $Sn_{(1-x)}Co_xO_2$ ceramic pigments via microwave-assisted hydrothermal method
Alysson Bruno Barbosa Moreira[1], Vinícius Dantas Araújo[2], Maria Ines Basso Bernardi; [1]Universidade de São Paulo - Instituto de Física de São Carlos, [2]Universidade de São Paulo

SP1-L19 - X-ray absoprtion spectroscopy characterization of $SrTiO_3$ synthesized by hydrothermal microwave method
Luís Fernando da Silva[1], Alexandre Mesquita, Mário Lúcio Moreira, Elson Longo, Valmor Roberto Mastelaro[2]; [1]Physics Institute Of São Carlos, [2]Universidade de São Paulo - Eesc/ifsc/iqsc

SP1-L20 - Rheology of alumina/binders mixture for low-pressure injection molding
Pedro Antonio Ourique[1], Matias Lunkes, Sérgio Echeverrigaray, Robinson Cruz, Arthur Susin Neto, Janete Eunice Zorzi; [1]Universidade de Caxias do Sul

SP1-L21 - Photoluminescence of manganese tungstate nanorods synthesized by microwave-hydrothermal method
Marcio Aurélio Pinheiro Almeida[1], Elson Longo, Laecio Santos Cavalcante, Maxímo Sui Li Li, José Arana Varela Varela; [1]Universidade Federal de São Carlos

SP1-L22 - Ni^{2+} doping effects on optical transitions in $SrAl_2O_4$
Raimundo Nonato Silveira Junior[1], Ada López, Ricardo Borges Barthem, Raul José da Silva Camara Mauricio da Fonseca[1]; [1]Universidade do Estado do Rio de Janeiro

SP1-L23 - Correlated ionic diffusion and specific heat near the γ-to- β phase transition in $RbAg_4I_5$
Rubén Antonio Vargas, Hernando Correa, Diego Peña-Lara

SP1-L24 - Preparation and characterization of $Pb_{0.5}Ca_{0.5-x}Li_xTiO_3$ thin films by chemical solution deposition
Regina Aparecida Capeli[1], Fenelon Martinho Pontes, Elson Longo; [1]Universidade Estadual Paulista

SP1-L25 - Structural and electrical properties of attrition milled strontium- and magnesium-doped lanthanum gallate
Shirley Leite Reis[1], Eliana Navarro Dos Santos Muccillo[1]; [1]Energy And Nuclear Research Institute

SP1-L26 - Sintering with concurrent crystallization: Modeling and experimental test varying the number of surface nucleation sites.
Anne Jacqueline Barbosa, Raphael M. C. V. Reis[1], Celso A. Goulart, Miguel O. Prado, Edgar Dutra Zanotto; [1]Universidade Federal de São Carlos

SP1-L27 - Influence of synthesis time on the structure and morphology of copper oxide
Jefferson Maul[1], Graziela Casali, Maria Maurera, Elson Longo, Antônio Gouveia Souza, Dawy Keyson, Iêda Maria Garcia Santos[1]; [1]Universidade Federal da Paraíba

SP1-L28 - Hematite with different morphologies using the microwave hydrothermal method
Arnayra Brito[1], Jefferson Maul[1], Graziela Casali, Elson Longo, Antônio Gouveia Souza, Iêda Maria Garcia Santos[1], Dawy Keyson; [1]Universidade Federal da Paraíba

SP1-L29 - Synthesis and characterization of $CaZrO_3$ sensor
Rafaela Silveira André[1], Sonia Maria Zanetti[2], Kleper de Oliveira Rocha[2], Elson Longo; [1]Universidade Federal de São Carlos, [2]Sencer Sensores Cerâmicos

SP1-L30 - Photoluminescence properties of $CaTiO_3$:Eu powders syntesized by the polymeric precursor method.
Tatiana Martelli Mazzo[1], Lucas Mendonça da Rocha Oliveira, Leilane Roberta Macario[2], Ieda Lúcia Viana Rosa, José Arana Varela[3], Elson Longo; [1]Instiruto de Quimica Unesp, [2]Instituto de Quimica de Araraquara-Unesp, [3]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP1-L31 - Physical chemistry characterization of the commercial acid clays in the synthesis of biodiesel
Jakeline Daniela Soares da Silva Nascimento[1], Natan Pires Sá, Adriana Almeida Cutrim, Francisco Rolando Valenzuela Diaz, Maria Wilma Nunes Cordeiro Carvalho, Antônio Gouveia Souza, Maria Das Graças da Silva Valenzuela; [1]Universidade Federal de Campina Grande

SP1-L32 - Effect of base in production of titanate nanostructures
Jardel Meneses Rocha[1], Francisco Marcos Batista, Bartolomeu Cruz Viana, Edson Cavalcanti da Silva Filho[1], Luiz Sousa Santos Júnior, Maria Rita Santos, José Milton Elias de Matos[1]; [1]Universidade Federal do Piauí

SP1-L33 - Influence of network former in $CaSn_{1-}$

$_xTi_xO_3$ system
Yolanda Cavalcante de Miranda[1], Jefferson Maul[1], Márcia Rejane Santos da Silva[2], Carlos Alberto Paskocimas, Elson Longo, Antônio Gouveia Souza, Iêda Maria Garcia Santos[2]; [1]Universidade Federal da Paraíba, [2]Universidade Federal da Paraiba

SP1-L34 - Effect of densification on fine particles of zirconia doped yttria compressed at high pressures
Eleomar Lena[1], Adilson Luiz Chinelatto, Adriana Scoton Chinelatto, Aldo Przybysz; [1]Universidade Estadual de Ponta Grossa

SP1-L35 - Functionalization of montmorillonite clay with different compatibilizing agents.
Guilherme Duarte de Barros[1], Rogério Almeida Gouvêa[1], Neftali Lenin Villarreal Carreño, Margarete Regina Freitas Gonçalves, Fabrício Ogliari, Sergio da Silva Cava; [1]Universidade Federal de Pelotas

SP1-L36 - Synthesis of Zinc Selenide (ZnSe) capped by L-cysteine in Aqueous Media
Alexandre Henrique Pinto[1], Edson Roberto Leite, Elson Longo, Emerson Rodrigues Camargo; [1]Universidade Federal de São Carlos - Campus: São Carlos

SP1-L37 - Influence of the growth direction on charge density in the tetragonal phase of the $PbTiO_3$.
Renan Augusto Pontes Ribeiro[1], Renato Ferras Penteado[1], Daniella Inglês[1], Sergio Ricardo de Lazaro[1], Sergio Mazurek Tebcherani; [1]Universidade Estadual de Ponta Grossa

SP1-L38 - Theorical simulation of the structural defects in the $CaSnO_3$ material
Renato Ferras Penteado[1], Renan Augusto Pontes Ribeiro[1], Daniella Inglês[1], Aline M. D. Natal, Sergio Ricardo de Lazaro[1], Sergio Mazurek Tebcherani; [1]Universidade Estadual de Ponta Grossa

SP1-L39 - Phase polymorphic influence of synthetic tio_2 in the production of nanostructures
Jardel Meneses Rocha[1], Francisco Marcos Batista, Bartolomeu Cruz Viana, Edson Cavalcanti da Silva Filho[1], Valdemir Dos Santos[2], Maria Rita Santos, José Milton Elias de Matos[2]; [1]Universidade Federal do Piauí, [2]Universidade Federal de São Carlos

SP1-L40 - Study of incorporation of foundry sand in soil-cement blocks
Raquel Folmann[1], Wendel Malkowski, Luiz Veriano Dalla Valentina, Marilena Valadares Folgueras; [1]Universidade do Estado de Santa Catarina

SP1-L41 - Influence of aging time on the transformation of zeolite Y in zeolite P
Aluska do Nascimento Simões, Laédna Souto Neiva[1], Antonielly Barbosa, Joao Bosco Lucena Oliveira, Meiry Rodrigues, Lucianna Gama; [1]Universidade Federal de Campina Grande

SP1-L42 - Synthesis of zeolite Y by microwave assisted hydrothermal treatment
Aluska do Nascimento Simões, Laédna Souto Neiva[1], Antonielly Barbosa, Joao Bosco Lucena Oliveira, Meiry Rodrigues, Lucianna Gama; [1]Universidade Federal de Campina Grande

SP1-L43 - SrBi2Nb2O9 ceramic matrix with Bi2O3 or La2O3 added
Emmanuelle Oliveira Sancho[1], Francisca Martins Pereira, Guilherme Francisco Pires Junior, Juscelino Chaves Sales, Antonio Sérgio Bezerra Sombra; [1]Universidade Federal do Ceará

SP1-L44 - Photoluminescence properties of $SrMoO_4$ obtained under conventional and microwave-hydrothermal conditions
Júlio César Sczancoski[1], Maria Das Graças Sampaio Costa, Laecio Santos Cavalcante, Maxímo Sui Li Li, Elson Longo, José Arana Varela[2]; [1]Universidade Estadual Paulista - Araraquara, [2]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP1-L45 - Influence of sintering temperature in the average pore diameter of the tubular ceramic membranes
Rosa do Carmo Oliveira Lima, Hélio Lucena Lira, Gelmires Araújo Neves, Mirele Costa Silva

SP1-L46 - Optical and electrical properties of $Pb_{1-x-y}Ca_xSr_yTiO_3$ thin films: ab initio study
Amanda Fernandes Gouveia[1], Fenelon Martinho Pontes, Elson Longo, Adenilson José Chiquito; [1]Universidade Estadual Paulista "júlio de Mesquita Filho"

SP1-L47 - Effect of aminoacids and quaternary ammonium salts addiction in the sodic bentonite organophilization to beused in polymeric nanocomposites
Ana Flávia Pattaro, Anderson J. Bonon, Maria Ingrid Rocha Barbosa[1], André Luiz Jardini Munhoz, Maria Carolina Burgos Costa, Rubens Maciel Filho; [1]Universidade Estadual de Campinas

SP1-L48 - Structural and electrochemical study of $La_{0.50}Li_{0.50}TiO_3$ / carbon black composite.
Alejandra Hortencia Miranda González[1], Beatriz Antoniassi Tavares, Bruna Andressa Bregadiolli[2], Carlos F. O. Graeff, José Arana Varela[3], Elson Longo; [1]Universidade Bandeirante de São Paulo, [2]Universidade Estadual Paulista "júlio de Mesquita Filho", [3]Sociedade Brasileira de Pesquisa

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SP1-L49 - Ammonium polyacrylate action in consolidation-casting association

Rogerio Pinto Mota, Rodrigo Sampaio Fernandes, Elson de Campos, Emerson Ferreira de Lucena

SP1-L50 - Structural and morphological characterization of ZrO_2 nanoparticles prepared by the polymeric precursor method

Alejandra Hortencia Miranda González[1], Claudio Machado Junior, Flávia Pires Rodrigues, Paulo Henrique Perlatti D'alpino, Carlos F. O. Graeff, Elson Longo, Camillo Anauate Netto; [1]Universidade Bandeirante de São Paulo

SP1-L51 - Obtaining of nanoparticles from a new powder synthesis method using sucrose and isopropanol

Kayruza Passos Sanches[1], Rogério Almeida Gouvêa[1], Sergio da Silva Cava, Neftalí Lenin Villarreal Carreño; [1]Universidade Federal de Pelotas

SP1-L52 - Theoretical computational studies of doped nanotubes with (SO2)

Vicente Agustín Atoche Espinoza, Javier Gomez Romero, Samuel Gustavo Huamán Bustamante, Carlton Antony Taft[1]; [1]Centro Brasileiro de Pesquisas Físicas

SP1-L53 - Synthesis of bismutite and bismuth oxide plates

Juliane Zacour Marinho[1], Fernanda da Costa Romeiro, Camilla Rodrigues Mendonça, Samantha Custódio Silva Lemos[1], Ana Paula de Moura[2], Elson Longo, Renata Cristina de Lima; [1]Universidade Federal de Uberlândia, [2]Instituto de Quimica de Araraquara-Unesp

SP1-L54 - Structural changes in a multisubstituted hydroxyapatite

Mirna Pereira Moreira, Victor Teixeira da Silva Aragão[1], Luis Eduardo Almeida, Euler Araujo Dos Santos; [1]Universidade Federal de Sergipe

SP1-L55 - The Influence of Intercalated Graphite on the Mechanical Properties of Phenolic Resins

Ricardo Ritter Barnasky[1], Rogério Almeida Gouvêa[2], Neftalí Lenin Villarreal Carreño, Sergio da Silva Cava; [1]Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais, [2]Universidade Federal de Pelotas

SP1-L56 - Study of photoluminescent properties in PZT

Lucas Lemos da Silva[1], Margarete Soares da Silva, Máximo Siu Li, Fabiana Villela da Motta, Maria Fernando Cagnin de Abreu, Elson Longo, Maria Aparecida Zaghete[2]; [1]Universidade Estadual de Mato Grosso do Sul, [2]Instituto de Quimica de Araraquara-Unesp

SP1-L57 - Comparative analysis of cement mortar composites reinforced with sisal and mauve fibers

Mayara Sarisariyama Siverio Lima[1], Vanessa Pinto Bezerra, Maria Das Neves Pontes Barata Peres, Sandoval Ferreira Martins Neto; [1]Instituto Federal de Educação, Ciência E Tecnologia do Pará

SP1-L58 - Highly oriented PCST thin films prepared by chemical solution deposition

Debora Silva Pontes, Fenelon Martinho Pontes, Elson Longo, Lucidio Souza Santos, Adenilson José Chiquito

SP1-L59 - Synthesis and photoluminescent properties of $CaCu_3Ti_4O_{12}$ powders prepared by the polymeric precursor method

Larissa Helena de Oliveira[1], Thiago Sequinel[2], Sergio Mazurek Tebcherani, Miguel Angel Ramírez Gil, Elson Longo, José Arana Varela[3]; [1]Universidade Federal de São Carlos, [2]Instituto de Quimica Unesp, [3]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP1-L60 - Structural refinement and photoluminescence properties of $(Ca_{1-x}Cu_x)TiO_3$ powders

Larissa Helena de Oliveira[1], Ana Paula de Moura[2], Miguel Angel Ramírez Gil, Laecio Santos Cavalcante, Selma Gutierrez Antonio, Elson Longo, José Arana Varela[3]; [1]Universidade Federal de São Carlos, [2]Instituto de Quimica de Araraquara-Unesp, [3]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP1-L61 - Mechanical behavior of oilwell cementing composites

Maria Roseane Pontes Fernandes, Petrúcia Duarte da Silva, Antonio Eduardo Martinelli[1], Dulce Maria Araújo Melo, Marcus Antonio Freitas Melo, Júlio César Oliveira Freitas; [1]Universidade Federal do Rio Grande do Norte

SP1-L62 - α,β- $NiMoO_4$ nanorods obtained from rapid calcination in domestic microwave oven

Ana Paula de Moura[1], Mauricio Roberto Bomio Delmonte, Maxímo Sui Li Li, Elson Longo, José Arana Varela[2]; [1]Instituto de Quimica de Araraquara-Unesp, [2]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP1-L63 - Study of exfoliated nanocomposites by SEM and X-ray techniques

Fauze Ahmad Aouada[1], Luiz Caparelli Mattoso, Elson Longo; [1]Instituto de Quimica de Araraquara-Unesp

SP1-L64 - Optical and structural properties of

Eu^{3+} doped in $BaTiO_3$ nanocrystals
Leilane Roberta Macario[1], Tatiana Martelli Mazzo[2], Ieda Lúcia Viana Rosa, Maxímo Sui Li Li, Waldir Avansi Junior, Elson Longo; [1]Instituto de Quimica de Araraquara-Unesp, [2]Instiruto de Quimica Unesp

SP1-L65 - Improvement in thermal stability of the nanocomposites by adding of the laponite clay
Fauze Ahmad Aouada[1], Luiz Caparelli Mattoso, Elson Longo; [1]Instituto de Quimica de Araraquara-Unesp

SP1-L66 - Influence of microwave energy on structural, morphology and photoluminescent behavior of $CuMoO_4$ powders.
Valdemir Dos Santos[1], José Milton Elias de Matos[2], Luciana Natalia Cividatti, Wilian Pereira Santos, João Diniz Junior, Rafael Enrico Bragueto, Elson Longo; [1]Universidade Federal de São Carlos, [2]Universidade Federal do Piauí

SP1-L67 - Synthesis and Characterization of Organophilic Bentonite from Mozambique
Laura Abreu da Silva[1,2], Humberto Gracher Riella, Nivaldo Cabral Kuhnen, Antonio José Cumbane, Jeane de Almeida do Rosário, Marivone Gusatti, Camila Cardoso Milioli; [1]Universidade Federal de Santa Catarina, [2]Depto. de Eng. Química E de Eng. de Alimentos

SP1-L68 - Study of variation in Percentage of filler in PVC recipes for the furniture industry
Alessandra Luiza de Lemos, Eduardo Luis Schneider

SP1-L69 - Analysis of the Uses of Biomaterial Pyrolytic Carbon in Jewellery Design
Cynthia Casagrande Matos[1], Jairo Drummond Câmara, Alexandre Joviano Casagrande; [1]Universidade Federal de Ouro Preto

SP1-L70 - Post-mortem study of MgO-C refractory brick applied in steel ladle's slag line.
Matheus Martini[1], Fernando Vernilli Júnior, Vinícius Franco do Nascimento, Robersio Marinho de Faria, Fernando Fernandes da Silva, José Milton Gabriel Lopes, Bruno Vidal de Almeida[2]; [1]Escola de Engenharia de Lorena - Universidade de São Paulo, [2]Universidade de São Paulo

SP1-L71 - Measurement uncertainty and evaluation of autogenous shrinkage of concrete with addition of rubber fibres
Izabella Ferreira Guimarães, Weber Guadagnin Moravia, Laura Gomes França, Eliene Pires Carvalho

SP1-L72 - Optimal load test and maximum gain of solid state voltage transformers
Diogo Zampieri Montanher[1], Ivair Aparecido Santos, Valdirlei Fernandes Freitas; [1]Universidade Estadual de Maringá

SP1-L73 - High Efficiency in Light Transfer Process Applied in Translucent Fiber Post.
Valdemir Dos Santos[1], Marcio Florian[2], Luciana Natalia Cividatti, Cesar Eduardo Bellinati, Roberto Martins Alcântara, José Milton Elias de Matos[3], Elson Longo; [1]Universidade Federal de São Carlos, [2]Angelus Dentistry Products Industry S/a, [3]Universidade Federal do Piauí

SP1-L74 - Theoretical investigation of complexes of citric acid and barium
Rodrigo Marques Ferreira[1], Paulo Noronha Lisboa-Flho, Francisco Carlos Lavarda[1]; [1]Faculdade de Ciências de Bauru - Unesp

SP1-L75 - Study of in situ spinel formation in commercial refractories lining of steel ladles: a phase, microstructuraland dilatometer view.
Arthur Scarparo Mattoso[1], Mariana Marques Simão, Matheus Martini[1], Robersio Marinho Faria, José Milton Gabriel Lopes, Fernando Vernilli Júnior, Bruno Vidal de Almeida[2]; [1]Escola de Engenharia de Lorena - Universidade de São Paulo, [2]Universidade de São Paulo

SP1-L76 - Obtaining of foams using milled float glass
André César Bento[1], Evaldo Toniolo Kubaski, Sergio Mazurek Tebcherani, Juliana de Oliveira Pimenta[2], Sabrina Marinho Kaplum, Thiago Domingues Holzmann, Thiago Sequinel[3]; [1]Universidade Estadual de Ponta Grossa, [2]Universidade Estadual Paulista Júlio de Mesquita Filho, [3]Instiruto de Quimica Unesp

SP1-L77 - Synthesis and characterization of molecular sieve AlMCM-41 modified with the impregnation of metals (Ni,Co, Fe)
Jakeline Daniela Soares da Silva Nascimento[1], Maria Wilma Nunes Cordeiro Carvalho, Raphael da Silva Eduardo, Marta Maria da Conceição; [1]Universidade Federal de Campina Grande

SP1-L78 - Chemical synthesis of SnO_2 microspheres
André César Bento[1], Thiago Sequinel[2], Evaldo Toniolo Kubaski, Juliana de Oliveira Pimenta[3], Sergio Mazurek Tebcherani, Sergio da Silva Cava, José Arana Varela[4]; [1]Universidade Estadual de Ponta Grossa, [2]Instiruto de Quimica Unesp, [3]Universidade Estadual Paulista Júlio de Mesquita Filho, [4]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP1-L79 - Characterization of red mud for possible applications in ceramic body
Vanessa Pinto Bezerra, Diego Correia Silva, Fabrício Paiva da Silva, Odilene Ferreira Cardoso, Benedito Coutinho Neto

SP1-L80 - Synthesis and characterization of composite $SrTi_{1-x}Nb_xO_3$ system
Alessandro Fernandes[1], Valmor Roberto Mastelaro[2], Maria Ines Basso Bernardi; [1]Universidade de São Paulo, [2]Universidade de São Paulo - Eesc/ifsc/iqsc

SP1-L81 - Production of ZnO by hydrothermal synthesis of microwave
Adriana Bispo do Nascimento

SP1-L82 - Manganese-doped zinc oxide nanostructures
Samantha Custódio Silva Lemos[1], Fernanda da Costa Romeiro, Juliane Zacour Marinho[1], Jaqueline Borges Ribeiro[1], José Arana Varela[2], Elson Longo, Renata Cristina de Lima; [1]Universidade Federal de Uberlândia, [2]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP1-L83 - Synthesis, characterization and photoluminescent properties of ZrO_2
Edson Cavalcanti da Silva Filho[1], Gian S Sousa, N. C. Batista, N. C. Batista, Luiz Sousa Santos Júnior, Maria Rita Santos, José Milton Elias de Matos[1]; [1]Universidade Federal do Piauí

SP1-L84 - Caracterização minerológica de resíduos de corte de granito e mármore para emprego em massas cerâmicas
Joseanne Lima Sales, Crislene Rodrigues Silva Morais, Lenilde Mérgia Ribeiro Lima, Juan Carlos Barbosa Cibalde

SP1-L85 - Evaluation of masonry mortar with limestone residue
Gelsoneide da Silva Gois[1], Carlos Alberto Paskocimas, Rubens Maribondo do Nascimento; [1]Federal University Of Rio Grande do Norte

SP1-L86 - Synthesis and Characterization of $SrTi_{1-x}Fe_xO_3$ thin films
Pedro Ivo Batistel Galiote Brossi Pelissari[1], Luís Fernando da Silva[1], Maria Inês Basso Bernardi, Valmor Roberto Mastelaro[2]; [1]Physics Institute Of São Carlos, [2]Universidade de São Paulo - Eesc/ifsc/iqsc

SP1-L87 - Synthesis of Eu^{3+} doped $CaWO_4$ prepared by hydrothermal method
Rosana de Fátima Gonçalves, Laecio Santos Cavalcante, Mario Junior Godinho, Alberthmeire Teixeira Figueiredo, Elson Longo

SP1-L88 - TiO2 spheres obtained by microwave assisted solvothermal method
Kleber Figueiredo Moura[1], Jefferson Maul[1], Graziela Casali, Elson Longo, Dawy Keyson, Antônio Gouveia Souza, Iêda Maria Garcia Santos[1]; [1]Universidade Federal da Paraíba

SP1-L89 - PSA hot melt adhesive strengthened with nanoclay
Geovana de Avila Bockorny, Eduardo Luis Schneider

SP1-L90 - Theoretical investigation of of the optimization processes of zinc oxide nanotubes
Gisley de Souza Brito, Jose Divino Dos Santos[1]; [1]Universidade Estadual de Goiás

SP1-L91 - Influence of PbF_2 in thermal, optical and structural properties in glassy oxides of heavy metals
Andrea Simone Stucchi de Camargo[1], Roger Gomes Fernandes, Hellmut Eckert[1], Antonio Carlos Hernandes[2,3]; [1]Universidade de São Paulo - Instituto de Física de São Carlos, [2]Universidade de São Paulo, [3]Instituto de Física de São Carlos

SP1-L92 - Synthesis of nanometric graphene oxide and its effects when added in MgAl2O4 ceramic
Rogério Almeida Gouvêa[1], Luiz Gilberto Konrath Júnior[2], Sergio da Silva Cava, Neftalí Lenin Villarreal Carreño, Margarete Regina Freitas Gonçalves, Ricardo Marques E Silva[2]; [1]Universidade Federal de Pelotas, [2]Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais

SP1-L93 - A method for obtention of low-density $MgAl_2O_4$ ceramic foam from a sucrose solution
Rogério Almeida Gouvêa[1], Sergio da Silva Cava, Neftalí Lenin Villarreal Carreño; [1]Universidade Federal de Pelotas

SP1-L94 - Retrogression Study of Cement Slurries for HPHT OIlwells
Petrúcia Duarte da Silva, Maria Roseane Pontes Fernandes, Marcus Antonio Freitas Melo, Antonio Eduardo Martinelli[1], Dulce Maria Araújo Melo, Júlio César Oliveira Freitas; [1]Universidade Federal do Rio Grande do Norte

SP1-L95 - Theoretical simulation of the $SrSnO_3$ and $SrTiO_3$ perovskite materials using DFT/B3LYP methodology
Daniella Inglês[1], Renan Augusto Pontes Ribeiro[1], Renato Ferras Penteado[1], Aline M. D. Natal, Sergio Ricardo de Lazaro[1], Sergio Mazurek Tebcherani; [1]Universidade Estadual de Ponta Grossa

SP1-L96 - Influence of Ca / P ratio in the synthesis of β-tricalcium phosphate nanometric particles
Silvio Veras Albuquerque, Erisandra Rodrigues Alves, Paulo Demétrios da Silva, Ricardo Ferreira Nogueira

SP1-L97 - Tailoring alumina fibers/alumina matrix interfaces
Diego Blaese, Murilo Pereira Hablitzel, Daniel Enrique Garcia, Dachamir Hotza, Marcio Celso Fredel

SP1-L98 - Characterization of Compound Portland cement (civil construction) for their use in cementing oil wells
Bruno Leonardo de Sena Costa, Francisco Aldemir Teles Bélem, Danilo Brasil Ribeiro, Filipe da Silva Oliveira, Júlio César Oliveira Freitas, Dulce Maria de Araujo Melo

SP1-L99 - Use of NIR spectroscopy to study archaeological pottery
Fernanda Emanuela Claudino da Silva[1], Ingrid Tavora Weber, Fernando Hallwass, Cláudia Alves Oliveira, Maria Fernanda Pimentel, Simone da Silva Simões; [1]Universidade Federal de Pernambuco

SP1-L100 - Modification of the wettability on samples produced from waste soapstone
Rogerio Pinto Mota, Maria Gabriela Araújo Ranieri, Carlos Eduardo Silva Amorim, Elson de Campos

SP1-L101 - A study for using waste of washing plant of manganese ore as a sintered product
Margarida Márcia Fernandes Lima[1], Guilherme de Oliveira Cruz, Rosa Malena Fernandes Lima, Gilberto Fernandes Lima; [1]Universidade Federal de Ouro Preto

TUESDAY , SEPTEMBER 27TH
SESSION SP2
14:00 - 16:00 - Exhibition Hall

SP2-L102 - Synthesis and Characterization of Nanostructured ZnO Films Deposited on Different Substrates
Adriana Rodrigues[1], Jonder Morais, Maria do Carmo Martins Alves; [1]Universidade Federal do Rio Grande do Sul

SP2-L103 - Structural and optical properties of ZnS obtained by microwave assisted solvothermal method.
Yuri Vinicius Santana[1], Cristiane Wienke Raubach, Mateus Meneghetti Ferrer[1], Felipe de Almeida La Porta, Elson Longo, José Arana Varela[2], Maxímo Sui Li Li; [1]Universidade Federal de São Carlos - Campus: São Carlos, [2]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP2-L104 - Functionalization of carbon nanotube by means of structural ramification
Douglas Busatto de Camargo Alves[1], Fabrício Ogliari, Sergio da Silva Cava, Neftali Lenin Villarreal Carreño, Margarete Regina Freitas Gonçalves, Taís Lopes Silva; [1]Universidade Federal de Pelotas

SP2-L105 - Photoluminescent properties of ZnS:Eu obtained by microwave-assisted solvothermal method
Mateus Meneghetti Ferrer[1], Yuri Vinicius Santana[1], Cristiane Raubach Ratmann[2], Felipe de Almeida La Porta, Maxímo Sui Li Li, José Arana Varela[3], Elson Longo; [1]Universidade Federal de São Carlos - Campus: São Carlos, [2]Universidade Federal de São Carlos, [3]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP2-L106 - Conversion of a Gypsum/PHB Composite into Hydroxyapatite
Amanda Alves Barbosa, Andréa de Vasconcelos Ferraz[1], Alan Christie Dantas, Nélson Olivier; [1]Fundação Universidade Federal do Vale do São Francisco

SP2-L107 - Synthesis and characterization a Titanosilicate.
Adriana Beatriz Mascaro[1], Tatiane Moraes Arantes[1], Emerson Rodrigues Camargo, Elson Longo; [1]Universidade Federal de São Carlos

SP2-L108 - Influence of Nd amount in the photocatalytic decolorization efficiency of $SrTiO_3$:Nd thin films
Márcia Rejane Santos da Silva[1], Valdinete Lins Silva, Valérie Bouquet, Stéphanie Députier, Maryline Guilloux-Viry, Antônio Gouveia Souza, Iêda Maria Garcia Santos[2]; [1]Universidade Federal da Paraiba, [2]Universidade Federal da Paraíba

SP2-L109 - Synthesis and characterization of oxides glasses, cointaining transition metal nanoparticles
Murilo Montesso[1], Marcelo Nalin; [1]Universidade Federal de São Carlos

SP2-L110 - Activated carbons by microwave as catalytic supports
Jandilson Soares Fernandes, Herbet Bezerra Sales, Patrisia do Nascimento Delgado, Elson Longo, Antônio Gouveia de Souza, Iêda Maria Garcia Santos[1], Ary da Silva Maia[1]; [1]Universidade Federal da Paraíba

SP2-L111 - Obtaining of YSZ/Al_2O_3 Nanocomposites Ceramic Coatings by the Polymeric Precursor Method
Mario Junior Godinho, Rosana de Fátima Gonçalves, Laecio Santos Cavalcante, Renata Cristina de Lima, Edson Roberto Leite, Elson Longo, José Arana Varela[1]; [1]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP2-L112 - Synthesis and characterization of Eu^{3+} doped $La_{0,5}Li_{0,5}TiO_3$
Silvia Leticia Fernandes[1], Gisele Gasparotto, Maria Aparecida Zaghete[2], José Arana Varela[3], Marco Cebim; [1]Faculdade de Ciências de Bauru - Unesp, [2]Instituto de Quimica de Araraquara-

Unesp, [3]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP2-L113 - Proposed model for growth preference of plate-like nanohydroxyapatite crystals on superhydrophilic vertically-aligned carbon nanotubes by electrodeposition

Anderson O Lobo, Fernanda R Marciano, Inacio Regiani, Sandra C Ramos, Jorge T Matsushima, Evaldo José Corat

SP2-L114 - Biomineralization in vitro studies of HA/superhydrophilic vertically aligned carbon nanotubes nanocomposites

Anderson O Lobo, Fernanda R Marciano, Sandra C Ramos, Cristina Pacheco-Soares, Evaldo José Corat

SP2-L115 - Local electrostatic and transport measurements in polycrystalline interfaces of $CaCu_3Ti_4O_{12}$ probed by atomic force microscope

Ronald Tararam[1], Paulo Roberto Bueno, Igor Bdikin, Andrei Kholkin, Elson Longo, José Arana Varela[2]; [1]Chemistry Institute Of Araraquara, [2]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP2-L116 - Effect of Eu, Tb and Tm on the properties of codoped $SrMoO_4$ phosphors

Ana Paula Azevedo Marques[1], Fabiana Villela da Motta, Maria Fernando Cagnin de Abreu, Ieda Lúcia Viana Rosa, Elson Longo; [1]Universidade Federal de São Paulo (Unifesp)

SP2-L117 - Development of plasticizers properties of washed kaolin for use in porcelain tiles compositions.

Renata Luiza Margotti[1]; [1]Santa Catarina Extreme South University

SP2-L118 - Thin films of Ca1-xSrxSnO3 obtained by PLD and CSD

Mary Cristina F Alves[1], Graziela Casali, Elson Longo, Antônio Gouveia Souza, Maryline Guilloux-Viry, Valérie Bouquet, Iêda Maria Garcia Santos[1]; [1]Universidade Federal da Paraíba

SP2-L119 - Synthesis and characterization of CdS/ZnS nanoparticles by a microwave-assisted solvothermal method

Cristiane Raubach Ratmann[1], Yuri Vinicius Santana[2], Mateus Meneghetti Ferrer[2], Felipe de Almeida La Porta, Maxímo Sui Li Li, Elson Longo; [1]Universidade Federal de São Carlos, [2]Universidade Federal de São Carlos - Campus: São Carlos

SP2-L120 - Photoluminescence on praseodymium doped $Ce_{1-3/4x}Pr_xO_2$ nanoparticles

Ana Cristina Tolentino Cabral[1], Francisco Moura Filho, Isabela Cristina Fernandes Vaz[1]; [1]Universidade Federal de Itajubá

SP2-L121 - Nonlinear electrical behavior of the Mo doped CCTO ceramics

Isabela Cristina Fernandes Vaz[1], Francisco Moura Filho, Ana Cristina Tolentino Cabral[1]; [1]Universidade Federal de Itajubá

SP2-L122 - Influence of sintering variables on the densification of β-TCP using experimental design

Felipe Sampaio Alencastro, Renata Nunes Oliveira[1], Gloria Almeida Soares; [1]Universidade Federal do Rio de Janeiro

SP2-L123 - Zinc and silver-containing hydroxyapatite for applying as anti-bacterial bone grafts

Ivory Marcos Gomes Dos Santos, Silmara Caldas Santos[1], Euler Araujo Dos Santos, Cristiane Xavier Resende, Frederico Guilherme Cunha; [1]Universidade Federal de Sergipe

SP2-L124 - Describing the crystalline structure of transparent ferroelectric relaxor ceramics

Eriton Rodrigo Botero[1], Douglas Henrique Marcelino de Azevedo, José Antônio Eiras[2], Anderson Rodrigues Lima Caires, Evaristo Alexandre Falcão[2], Ducinei Garcia; [1]Fundação Universidade Federal da Grande Dourados, [2]Universidade Federal de São Carlos - Campus: São Carlos

SP2-L125 - Synthesis and Spectroscopic Study of $Gd_2O_3:Eu^{3+}$ Nanophosphors by Benzenetricarboxylate Method

Ivan Guide Nunes da Silva, Jiang Kai, Lucas Carvalho Veloso Rodrigues, Maria Claudia França da Cunha Felinto, Hermi Felinto Brito

SP2-L126 - Structural Properties and Ionic Conductivity of $LiPO_3$-WO_3-Na_2WO_4 Glasses.

Gustavo Galleani, Silvia Helena Santagneli[1], Sidney José Lima Ribeiro, Younes Messaddeq, Jaime Alberto Sanches Caceres, Jean Claude M´peko; [1]Instituto de Quimica de Araraquara-Unesp

SP2-L127 - Microstructure and properties of geopolymer concrete containing recycled glass as aggregate

Vitor Alencar Nunes, Anna Carolina Oliveira Mendes[1], Thiago Câmara Rodrigues de Souza[1], Paulo H R Borges, Antonio Feteira, Tulio Hallak Panzera, Andre Luiz Christoforo; [1]Centro Federal de Educação Tecnológica de Minas Gerais

SP2-L128 - Development of sustainable binders based on the alkaline activation of metakaolin and rice husk ash

Vitor Alencar Nunes, Fernanda Guerra Lima Medeiros, Thiago Câmara Rodrigues de Souza[1], Paulo

H R Borges, Conrado Souza Rodrigues, Tulio Hallak Panzera; [1]Centro Federal de Educação Tecnológica de Minas Gerais

SP2-L129 - Study of the charges movability in strontium bismuth tantalate samples obtained by different synthesis methods

Ricson Rocha de Souza[1], Felipe Fernandes de Oliveira, Vânia Caldas de Sousa[1], Altair Soria Pereira, Carlos Pérez Bergmann; [1]Universidade Federal do Rio Grande do Sul

SP2-L130 - Refractory properties of alkali-activated metakaolin

Thiago Câmara Rodrigues de Souza[1], Vitor Alencar Nunes, Paulo H R Borges, Rubens Alves Freire; [1]Centro Federal de Educação Tecnológica de Minas Gerais

SP2-L131 - $SrSnO_3$:Cu synthesized by the polymeric precursor method

Danniely Melo Ribeiro, Fagner Gomes Vieira, Severino Guedes Lima, Elson Longo, Ary da Silva Maia[1], Iêda Maria Garcia Santos[1], Antônio Gouveia Souza; [1]Universidade Federal da Paraíba

SP2-L132 - High gas pressure impregnation: temperature effect and microstructure in ceramic particles

Juliana de Oliveira Pimenta[1], Evaldo Toniolo Kubaski, Thiago Sequinel[2], Samara Schmidt[3], André César Bento[3], Sergio Mazurek Tebcherani, José Arana Varela[4]; [1]Universidade Estadual Paulista Júlio de Mesquita Filho, [2]Instituto de Quimica Unesp, [3]Universidade Estadual de Ponta Grossa, [4]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP2-L133 - Microwave-induced combustion synthesis and characterization of calcium aluminates

Débora Patrícia Batista Rocha[1], Bráulio Silva Barros, Moisés Rômolos Cesário, Dulce Maria Araújo Melo, Alan Kiennemann, Claire Courson, Vítor Rodrigo Melo; [1]Universidade Federal do Rio Grande do Norte

SP2-L134 - WO_3/TiO_2 thick films and ceramics applied as humidity sensor

Sonia Maria Zanetti[1], Kleper de Oliveira Rocha[1], Elson Longo; [1]Sencer Sensores Cerâmicos

SP2-L135 - Impregnation of $SrSnO_3$:Ni on porous ceramic materials by the polymeric precursor method

Rosa Medeiros Marinho[1], Ary da Silva Maia[2], Severino Jackson Guedes, Antônio Gouveia Souza, Iêda Maria Garcia Santos[2]; [1]Universidade Regional do Cariri, [2]Universidade Federal da Paraíba

SP2-L136 - Epitaxial growth of $SrSn_{1-x}Ti_xO_3$ thin films by Chemical Solution Deposition and Pulsed Laser Deposition

Andre Luiz Menezes de Oliveira, Valérie Bouquet, Stéphanie Députier, Sophie Ollivier, Antônio Gouveia Souza, Iêda Maria Garcia Santos[1], Maryline Guilloux-Viry; [1]Universidade Federal da Paraíba

SP2-L137 - Formation of core-shell type Al_2O_3/ZrO_2 and ZrO_2/Al_2O_3

Patricía Santos Andrade, Valdemir Dos Santos[1], Luiz Sousa Santos Júnior, Maria Rita Santos, Edson Cavalcante Silva Filho, José Milton Elias de Matos[2]; [1]Universidade Federal de São Carlos, [2]Universidade Federal do Piauí

SP2-L138 - Synthesis and photoluminescent properties of Eu^{3+}-activated $Ca_3Al_2O_6$ phosphor

Bráulio Silva Barros, Camila Nunes de Carvalho, Paulo Dantas Sesion Júnior, Débora Patrícia Batista Rocha[1], Dulce Maria Araújo Melo, Severino Alves Junior; [1]Universidade Federal do Rio Grande do Norte

SP2-L139 - Anisotropic photoluminescent properties of biomorphic Al_2O_3 coated with ZnO tetrapods

Carlos Renato Rambo[1], Carlo Requião Cunha; [1]Universidade Federal de Santa Catarina

SP2-L140 - Zinc-gallium oxynitrides synthesized from $ZnGa_2O_4$ precursor for gas sensor applications

José Fernando Dagnone Figueiredo, Valérie Bouquet, Stéphanie Députier, Odile Merdrignac-Conanec, Maryline Guilloux-Viry, Iêda Maria Garcia Santos[1], Érika Pinto Marinho; [1]Universidade Federal da Paraíba

SP2-L141 - Iron Garnets Under High Pressure

Pablo Roberto Rovani[1], Altair Soria Pereira; [1]Universidade Federal do Rio Grande do Sul

SP2-L142 - Yb3+, Tm3+ and Ho3+ triply-doped tellurite core-cladding optical fiber for white light generation

Danilo Manzani[1], Yannick Ledemi, Younes Messaddeq, Sidney José Lima Ribeiro, Rafael E.p. Oliveira, Christiano J.s. Matos; [1]Instituto de Quimica Unesp

SP2-L143 - Studying the use of mill scale as pigment in ceramic body

Joana Gomes Meller[1], Angela Beatriz Coelho Arnt, Marcio Roberto da Rocha; [1]Universidade do Extremo Sul Catarinense

SP2-L144 - Dissociation of water on mgo nano-structured surfaces in the presence of metallics dopants

Neil de La Cruz, Carlton Antony Taft[1]; [1]Centro Brasileiro de Pesquisas Físicas

SP2-L145 - The effect of Al_2O_3 additions on the sintering behavior of 10% ZrO_2 – 10% Y_2O_3 - CeO_2 (mol%) ceramics

Glauber Silva Godoi, Dulcina Pinatti Ferreira de Souza

SP2-L146 - Study and characterization of particulate $Pb(Zr_{0,52},Ti_{0,48})O_3$ for the formation and optimization of PVDF-PZT composites.

Cibele Oliveira, Maria Aparecida Zaghete[1], Gilberto Campos Fuzari Junior, Elson Longo, Elson Longo, José Arana Varela[2]; [1]Instituto de Quimica de Araraquara-Unesp, [2]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP2-L147 - Adsorption of water on mgo nano-strutured surfaces in the presence of metallic dopants

Neil de La Cruz, Carlton Antony Taft[1]; [1]Centro Brasileiro de Pesquisas Físicas

SP2-L148 - Influence of the addition of mill scale (residue) in rolling resistance and in the tone of red ceramic

Joana Gomes Meller[1], Angela Beatriz Coelho Arnt, Marcio Roberto da Rocha; [1]Universidade do Extremo Sul Catarinense

SP2-L149 - Monitoring the phases of $Li_2O{\cdot}2SiO_2$ glass ceramic submitted to high pressure and high temperature

Silvio Buchner[1], Naira Maria Balzaretti[1]; [1]Universidade Federal do Rio Grande do Sul

SP2-L150 - Electronic and Structural Properties of Bulk and (001) Surface of TiO_2 Anatase: A DFT and DFT-D Simulation

Marcos Luizão Garzim[1], Bruna Pastrello[1], Julio Ricardo Sambrano[1]; [1]Universidade Estadual Paulista "júlio de Mesquita Filho" - Bauru

SP2-L151 - Mechanosynthesis of rare earth doped yttrium aluminum garnet

Luiz Gustavo Davanse Silveira[1], Marcos Paulo Belançon, Jurandir Hillmann Rohling, Ivair Aparecido Santos, Luiz Fernando Cótica; [1]Universidade Estadual de Maringá

SP2-L152 - Process variables study in bentonite organophilization clays

Carla Dantas da Silva, Heber Carlos Ferreira, Gelmires Araújo Neves, Rosa do Carmo Oliveira Lima, Julliana Marques Costa

SP2-L153 - Nanotubes of [(Ge)n]m, the study of stability with methods of Theoretical Chemistry

Carlton Antony Taft[1], Jose Divino Dos Santos[2], João Batista Lopes Martins[3], Elson Longo; [1]Centro Brasileiro de Pesquisas Físicas, [2]Universidade Estadual de Goiás, [3]Universidade de Brasília

SP2-L154 - Electron density maps and crystal structure of $BaSnO_3$ by Rietveld-MEM refinement

André Vitor Chaves de Andrade[1], Douglas Hideki Nakahata, Osvaldo Mitsuyuki Cintho, Augusto Celso Antunes, Sandra Regina Masetto Antunes, Eder Carlos Ferreira de Souza[1], Marco Aurélio Perez; [1]Universidade Estadual de Ponta Grossa

SP2-L155 - Microstrains distribution and preferred orientation effect in a hydroxyapatite sample obtained by hydrothermal synthesis

André Vitor Chaves de Andrade[1], Rafael Eiji Saito, Augusto Celso Antunes, Christiane Philippini Ferreira Borges, Eloísa Cordoncillo Cordoncillo, Purificación Escribano López, Sandra Regina Masetto Antunes; [1]Universidade Estadual de Ponta Grossa

SP2-L156 - Interaction of molecules of CO, H2, H2O on the surfaces of nanotubes of ZnO using theoretical methods

Jose Divino Dos Santos[1], Carlton Antony Taft[2], João Batista Lopes Martins[3], Elson Longo; [1]Universidade Estadual de Goiás, [2]Centro Brasileiro de Pesquisas Físicas, [3]Universidade de Brasília

SP2-L157 - Empirical Study of the Structures of Polyaniline

Supercil Mendes da Silva Filho[1], Jose Divino Dos Santos[1], Olacir A Araujo, João Batista Lopes Martins[2], Carlton Antony Taft[3], Elson Longo; [1]Universidade Estadual de Goiás, [2]Universidade de Brasília, [3]Centro Brasileiro de Pesquisas Físicas

SP2-L158 - Using the residue of exploration and beneficiation of kaolin in producing of meta-kaolin for use in mortar

Marcio Luis Varela Nogueira Moraes[1], Renata Sena Brasil, Marcia Jordana Santos, Carlos Alberto Paskocimas; [1]Instituto Federal de Educação, Ciência E Tecnologia do Rio Grande do Norte

SP2-L159 - Synthesis and photoluminescence behavior of pure and Hf-doped barium zirconate

Ederson Carlos Aguiar[1], Alexandre Z. Simões, Mário Lúcio Moreira, Elson Longo, José Arana Varela[2]; [1]Instituto de Quimica Unesp, [2]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP2-L160 - Characterization of clays for cosmetic products

Camila Ribeiro Caetano[1,2], Daniela Camargo Vernilli; [1]Escola de Engenharia de Lorena -

Usp, [2]Demar/eel-Usp, Sp

SP2-L161 - Photoluminescent properties of the MWO4:Eu3+ (M2+=Ca, Sr and Ba) nanophosphors

Helliomar Pereira Barbosa[1]; [1]Universidade de São Paulo

SP2-L162 - Growth and Optical Characterization of Pure $LaNbTiO_6$ Single Crystal Fiber by LHPG Technique

Sergio Paulo Marcondes[1], Marcello Rubens Barsi Andreeta, Antonio Carlos Hernandes[2]; [1]Instituto de Física de São Carlos, [2]Universidade de São Paulo

SP2-L163 - Evaliation of the stability of single-wall carbon nanotubes with the AM1, ab-initio, HF and DFT methods

Jose Divino Dos Santos[1], Montales Borges Oliveira, João Batista Lopes Martins[2], Carlton Antony Taft[3], Elson Longo; [1]Universidade Estadual de Goiás, [2]Universidade de Brasília, [3]Centro Brasileiro de Pesquisas Físicas

SP2-L164 - Structural and Electronic Properties of AlN: A computational study.

Elen Caroline Toniatto[1], Julio Ricardo Sambrano[2]; [1]Universidade Estadual Paulista, [2]Universidade Estadual Paulista "júlio de Mesquita Filho" - Bauru

SP2-L165 - Procedures for obtaining a barbotine of clay "cooker" with dispersant [$Na_2O(SiO_2)_n$] for the inclusion of components in the ceramic filigree jewelry design

Maria Lúcia Vieira[1], Sidney Nicodemos da Silva, Anna Katharina Aleixo Schmal, Afrodite Aguiar Pinter Cardoso, Maria Bernadete Santos Teixeira; [1]Universidade do Estado de Minas Gerais

SP2-L166 - Analysis of Wannier functions produced by the wannier90 code

Denis Rafael Nacbar[1,2], Alexys Bruno Alfonso; [1]Universidade Estadual Paulista Júlio de Mesquita Filho - Posmat, [2]Faculdade de Ciências de Bauru - Unesp

SP2-L167 - Synthesis and Spectroscopic Study of $YTMA:Eu^{3+}$

Ivan Guide Nunes da Silva, Bruno Andreoli, Maria Claudia França da Cunha Felinto, Hermi Felinto Brito

SP2-L168 - Analysis of the Multiplicity of NTC-Thermistor Parameters in Ni Doped Niobate Ceramic

Silvania Lanfredi[1], Diego Henrique Moreli de Gênova[2], Marcos Augusto de Lima Nobre; [1]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente, [2]Fct-Unesp Campus de Presidente Prudente

SP2-L169 - TiO_2, ZrO_2 and $BaTiO_3$ nanoparticles synthesized by solvothermal method: effect of chloride ions concentration on the structural and morphological properties

Giovanni Pimenta Mambrini, Edson Roberto Leite, Elson Longo

SP2-L170 - Photoluminescence properties of YAG/YAP-SiO_2: Er powders by Pechini Method

Alessandra Carla Mendes, Antonio Carlos Hernandes[1,2], Lauro June Queiroz Maia, Jesiel Freitas Carvalho, Máximo Siu Li; [1]Universidade de São Paulo, [2]Instituto de Física de São Carlos

SP2-L171 - High density submicrometric $Pb(Fe_{1/2}Nb_{1/2})O_3$ ceramics obtained by Two-Step Sintering or Spark Plasma Sintering

William Junior Nascimento[1], Bárbara Maraston Fraygola[1], Ducinei Garcia, José Antônio Eiras[2]; [1]Universidade Federal de São Carlos, [2]Universidade Federal de São Carlos - Campus: São Carlos

SP2-L172 - Microwave Hydrothermal Processing Hybrid Material: Europium-Polypyrrole

Camila Soares Xavier, Mauricio Roberto Bomio Delmonte, Ana Paula de Moura[1], José Arana Varela[2], Elson Longo; [1]Instituto de Quimica de Araraquara-Unesp, [2]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP2-L173 - Incorporation of kaolin waste fiber and expensive in Medium density fibreboard - MDF

Ana Flavia Camara Bezerra, Lisiane Navarro Lima Santana, Gelmires Araújo Neves

SP2-L174 - Synthesis of PbMoO4 by Coprecipitation and Convectional Hydrothermal Methods

Camila Soares Xavier, Mauricio Roberto Bomio Delmonte, Ana Paula de Moura[1], Maxímo Sui Li Li, José Arana Varela[2], Elson Longo; [1]Instituto de Quimica de Araraquara-Unesp, [2]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP2-L175 - Bioceramics of apatites

Eliana Alves Arxer[1,2], Anahi Herrera Aparecida, Antonio Carlos Gustaldi; [1]Universidade Paulista, [2]Instituto de Quimica Unesp

SP2-L176 - Obtaining and characterization of polymeric nanocomposites with organoclay attapulgite

Cleide Maria da Silva Leite[1], Marília Evelyn Rodrigues Oliveira, Mirna Luciano de Gois Silva, Mônica Felts de La Roca Soares; [1]Universidade Federal do Piauí

WEDNESDAY, SEPTEMBER 28TH

SESSION SP3
16:00 - 18:00 - Exhibition Hall

SP3-L177 - Urea-based synthesis at low temperature of zinc oxide
Jaqueline Borges Ribeiro[1], Fernanda da Costa Romeiro, Samantha Custódio Silva Lemos[1], Juliane Zacour Marinho[1], Camilla Rodrigues Mendonça, Elson Longo, Renata Cristina de Lima; [1]Universidade Federal de Uberlândia

SP3-L178 - Microstructural characterization of triaxial porcelains with partial substitution of feldspar by quartz
Marcio Saraiva Melo, Ricardo Henrique Lira Silva, Érika Pinto Marinho, Ana Cecilia Vieira Nóbrega

SP3-L179 - Study of porosity in Sintering of Glass-Feldspathic Composite containing Mica-Muscovite crystals
Emilena Elisabeth Silva Moraes, Vinicius Bemfica, Luis Carlos Pereira, Tsuneharu Ogasawara

SP3-L180 - Green procurement of brick from the reuse of waste powder mountain
Marcus Alexandre Diniz[1]; [1]Instituto Federal de Educação, Ciência E Tecnologia do Rio Grande do Norte

SP3-L181 - Green procurement of brick from the reuse of waste (sludge) station wastewater treatment (stp)
Marcus Alexandre Diniz[1]; [1]Instituto Federal de Educação, Ciência E Tecnologia do Rio Grande do Norte

SP3-L182 - Influence of the composition of the $SrSn_{1-x}Ti_xO_3$ system in the short and long range order
Andre Luiz Menezes de Oliveira, Márcia Rejane Santos da Silva[1], Herbet Bezerra Sales, Fagner Gomes Vieira, Elson Longo, Antônio Gouveia Souza, Iêda Maria Garcia Santos[2]; [1]Universidade Federal da Paraiba, [2]Universidade Federal da Paraíba

SP3-L183 - Aluminum hydroxide morphology controlled by polihydroxilated compounds.
Eduardo Rezende Triboni[1], Mauro Francisco Pinheiro da Silva[2], Alan Teruel, Décio Briotto, Mário José Politi; [1]Institute Of Chemisty, [2]Universidade de São Paulo

SP3-L184 - ^{27}Al MAS-NMR investigation lanthanum influence in Al^{VI} and Al^{IV} sites onto mesoporous clay
Marcus Venicio da Silva Fernandes[1], Sara Regina Moura Figueiredo Porto, Rosane Aguiar da Silva San Gil, Lindomar Roberto Damasceno da Silva; [1]Universidade Federal do Ceará

SP3-L185 - Effect of mineralizers addition to form the pigment $Ce_{0,87}Pr_{0,05}Fe_{0,08}O_{2-\delta}$
Renata Cristina Olegario, Rodrigo Szostak[1], Eder Carlos Ferreira de Souza[1], André Vitor Chaves de Andrade[1], Marco Aurélio Perez, Sandra Regina Masetto Antunes, Augusto Celso Antunes; [1]Universidade Estadual de Ponta Grossa

SP3-L186 - Alginate as an alternative material for the exploitation of 3D printer additive manufacturing technolog
Rodrigo Alvarenga Rezende, Marcelo Fernandes Oliveira[1], Izaque Alves Maia, Paulo Inforçatti Neto, Jorge Vicente Lopes da Silva; [1]Centro de Tecnologia da Informação Renato Archer

SP3-L187 - Structural, eletronic and optical study of carbon, silicon and germanium nanotubes
Marcos Reis Vargas, Jose Divino Dos Santos[1], Elson Longo, João Batista Lopes Martins[2]; [1]Universidade Estadual de Goiás, [2]Universidade de Brasília

SP3-L188 - Effect of enamel addition to the $Ce_{0,92}Pr_{0,08}O_{2-\delta}$ pigment to be used in ceramics.
Renata Cristina Olegario, Eder Carlos Ferreira de Souza[1], Christiane Philippini Ferreira Borges, André Vitor Chaves de Andrade[1], Marco Aurélio Perez, Sandra Regina Masetto Antunes, Augusto Celso Antunes; [1]Universidade Estadual de Ponta Grossa

SP3-L189 - Influence of sintering temperature on the tangential flux of desalinated water of tubular ceramic membrane
Mirele Costa Silva, Hélio Lucena Lira, Rosa do Carmo Oliveira Lima, Normanda L Freitas

SP3-L190 - Polyhedral Distortion Analysis in Iron-Doped Potassium Strontium Niobate: a Highly Non-stoichiometric Compound Engineered by Non-isovalent Substitution of Niobium Cations
Alan Rogério Ferreira Lima[1], Marcos Augusto de Lima Nobre, Silvania Lanfredi[2]; [1]Universidade Federal de São Carlos, [2]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

SP3-L191 - Synthesis and characterization of ceramic pigments CaM_2O_4 ($M=Fe^{+3}, Cr^{+3}, Mn^{+3}$) through classical and non-conventional citrate gel routes
Edgar Andres Chavarriaga[1], Leidy Johana Jaramillo Nieves[1], Oscar Jaime Restrepo Baena; [1]Universidad Nacional de Colombia

SP3-L192 - Sintering behavior analysis of yttria stabilized zirconia nanoparticle powder
Sergio Luiz Mineiro, Maria do Carmo de A. Nono

SP3-L193 - Synthesis, characterization and

photoluminescence of ZrO_2 nanoparticles
Gian S Sousa, Patrícia Alves de A. Sousa, Ricardo Barsoba Sousa, Valdenir Santos, Fátima M. S. Pereira, Maria Rita Santos, José Milton Elias de Matos[1]; [1]Universidade Federal do Piauí

SP3-L194 - Impedance Spectrum of a Niobate Nanoscaled Powder with Tetragonal-Tungsten-Bronze Structure
Alan Rogério Ferreira Lima[1], Diego Henrique Moreli de Gênova[2], Iara Aparecida Oliveira Brito, Silvania Lanfredi[3], Marcos Augusto de Lima Nobre; [1]Universidade Federal de São Carlos, [2]Fct-Unesp Campus de Presidente Prudente, [3]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

SP3-L195 - Diffusion of the ^{65}Zn radiotracer in ZnO-based varistor
Maria Auxiliadora Neves Nogueira[1], Wilmar Barbosa Ferraz, Antonio Claret Soares Sabioni; [1]Universidade Federal de Ouro Preto

SP3-L196 - Nanocrystalline $Ca_{0,99}Ln_{0,01}MoO_4$ obtained at room temperature: synthesis, characterization and photoluminescence
Patrícia Alves de A. Sousa, Ricardo Barsoba Sousa, Maria Rita Santos, José Milton Elias de Matos[1], Luiz Sousa Santos Júnior; [1]Universidade Federal do Piauí

SP3-L197 - Development and characterization of bricks using slate powder waste
Luciana Boaventura Palhares[1]; [1]Centro Universitário Newton Paiva

SP3-L198 - Bricks production using green coconut fiber
Luciana Boaventura Palhares[1], Luiza Dutra Rodrigues[1]; [1]Centro Universitário Newton Paiva

SP3-L199 - Study in the incorporation of waste ceramic formulations for soil-cement bricks
Sheyla Karolina Marques[1], Sheyla Karolina Marques[1]; [1]Instituto Federal de Educação, Ciência E Tecnologia de Alagoas

SP3-L200 - Characterization of ceramic pieces obtained by slip casting using powder wastes
Luciana Boaventura Palhares[1]; [1]Centro Universitário Newton Paiva

SP3-L201 - Development of a System for Immersion Ultrasonic Analysis on UO_2 Pellets
Douglas Brandão Baroni, Marcelo Siqueira Queiroz Bittencourt

SP3-L202 - Ultrasonic Spectral Analysis for Ceramics Characterization
Douglas Brandão Baroni, Antônio Mário Martins, Marcelo Siqueira Queiroz Bittencourt

SP3-L203 - Crystallization of the eulytite $Bi_4Ge_3O_{12}$ phase in BGO glasses below their glass transition temperature
Seila Rojas[1], José Ezequiel de Souza[2], Marcello Barsi Andreeta[3], Antonio Carlos Hernandes[4]; [1]Universidade Federal de Mato Grosso do Sul, [2]Universidade Federal da Grande Dourados, [3]Instituto de Física de São Carlos, [4]Universidade de São Paulo

SP3-L204 - Characterization of PZT powder obtained by Microwave Hydrothermal Method
Guilhermina Ferreira Teixeira[1], Gisele Gasparotto, Maria Aparecida Zaghete[1], Elson Longo, José Arana Varela[2]; [1]Instituto de Quimica de Araraquara-Unesp, [2]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP3-L205 - Er^{3+}/Yb^{3+} co-doped tellurite glasses and optical fibers for photonic applications
Jefferson Luis Ferrari[1], Danilo Manzani[2], Sidney José Lima Ribeiro, Younés Messaddeq; [1]Instituto de Química, [2]Instiruto de Quimica Unesp

SP3-L206 - Synthesis of $SrSnO_3$:Ni by the polymeric precursor method
Joao Jarllys Nobrega de Souza[1,2], Danniely Melo Ribeiro, Ary da Silva Maia[2], Elson Longo, Luiz Soledade, Antônio Gouveia Souza, Iêda Maria Garcia Santos[2]; [1]Universidade Federal da Paraíba, [2]Universidade Federal da Paraiba

SP3-L207 - Monoaromatic hydrocarbon interaction on kaolinite layers
João Batista Lopes Martins[1], Elton A. S. Castro, Elson Longo, Ricardo Gargano; [1]Universidade de Brasília

SP3-L208 - Evolution of the use of mill scale as a pigment for concrete
Alexandre Agostinho Morotskoski[1], Allan Silveira Medeiros, Angela Beatriz Coelho Arnt; [1]Universidade do Extremo Sul Catarinense

SP3-L209 - Evolution the use of mill scale as pigment for white concrete
Alexandre Agostinho Morotskoski[1], Allan Silveira Medeiros, Angela Beatriz Coelho Arnt; [1]Universidade do Extremo Sul Catarinense

SP3-L210 - Dense ceramics based SnO_2 of low resistance obtained for different route of synthesis
Gisane Gasparotto[1,2], Natalia Jacomaci[3], Gisele Gasparotto, Maria Aparecida Zaghete[4], José Arana Varela[5], Leinig Antonio Perazolli; [1]Universidade Estadual Paulista - Araraquara, [2]Instituto de Química, [3]Instiruto de Quimica Unesp, [4]Instituto de Quimica de Araraquara-Unesp, [5]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP3-L211 - Study of the effect of processing time

on the structural and luminescent properties of $SrWO_4:Eu^{3+}$ phosphors prepared by a microwave hydrothermal method (MH)

Paula Fabiana Santos Pereira, Ana Paula de Moura[1], Içamira Costa Nogueira[2], Elson Longo, Paulo César Sousa Filho, Osvaldo Antonio Serra, Ieda Lúcia Viana Rosa; [1]Instituto de Quimica de Araraquara-Unesp, [2]Universidade Federal de São Carlos

SP3-L212 - Study of nanotube clusters of Silicon [nano-Si---nano-Si], using methods of quantum and molecular mechanics

Carlton Antony Taft[1], Jose Divino Dos Santos[2], João Batista Lopes Martins[3], Marcos Vargas, Elson Longo; [1]Centro Brasileiro de Pesquisas Físicas, [2]Universidade Estadual de Goiás, [3]Universidade de Brasília

SP3-L213 - Effect of the annealing time on the luminescent properties of $SrWO_4:Eu^{3+}$ phosphors prepared by a non-hydrolytic sol-gel route

Paula Fabiana Santos Pereira, Ana Paula de Moura[1], Elson Longo, Paulo César Sousa Filho, Osvaldo Antonio Serra, Eduardo José Nassar, Ieda Lúcia Viana Rosa; [1]Instituto de Quimica de Araraquara-Unesp

SP3-L214 - Analysis of the Use of Exhaust Powder from System Sand Core Making Regeneration in Concretes no Structural Function

Carine Cardoso Dos Santos, Luiz Veriano Dalla Valentina, Wagner de Campos Galuppo

SP3-L215 - Influence of the Phenolic Resin in Refractory of $Al_2O_3 – SiO_2$

Ricardo Ritter Barnasky[1], Rogério Almeida Gouvêa[2], Tiago Delbrücke, Sergio da Silva Cava, Neftalí Lenin Villarreal Carreño; [1]Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais, [2]Universidade Federal de Pelotas

SP3-L216 - Influence of thermal treatment on final structure properties of SBN ferroelectric thin films

Cicero Rafael Cena[1], Eudes Borges Araujo, Rafael Luiz Heleno Freire, Elton Carvalho Lima; [1]Universidade Estadual Paulista Júlio de Mesquita Filho

SP3-L217 - Local structure of glasses based on molybdenum phosphate and neodymium photoluminescence in the visible and near infrared regions

Silvia Helena Santagneli[1], Lauro June Queiroz Maia, Samuel Leite Oliveira, Sidney José Lima Ribeiro, Younes Messaddeq; [1]Instiruto de Quimica Unesp

SP3-L218 - Evaluation of defects formed in the system $SrSnO_3:Eu$

Lais Chantelle de Lima[1], Márcia Rejane Santos da Silva[2], Ary da Silva Maia[2], Elson Longo, Luiz Soledade, Antônio Gouveia Souza, Iêda Maria Garcia Santos[2]; [1]Universidade Federal da Paraíba, [2]Universidade Federal da Paraiba

SP3-L219 - Theorical study optical properties in the Calcium hexahydroxodizincate dihydrate

Eduardo de Moraes[1], Laecio Santos Cavalcante, Camila S Xavier, Valeria Moraes Longo, Elson Longo; [1]Universidade Federal de São Carlos

SP3-L220 - Evaluation of SnO_2 impregnated on clay by the polymeric precursor method for biodiesel synthesis

Alex Meireles Neris[1], Anderson Reis Albuquerque, Adriana Almeida Cutrim, Jakeline Daniela Soares da Silva Nascimento[2], Ary da Silva Maia[2], Antônio Gouveia Souza, Iêda Maria Garcia Santos[2]; [1]Universidade Federal da Paraíba, [2]Universidade Federal de Campina Grande

SP3-L221 - Influence of superplasticizers and hyperplasticizers admixtures on the mechanical behavior of Portland cement slurries

Dulce Maria de Araujo Melo, Júlio César Oliveira Freitas, Antonio Eduardo Martinelli[1], Marcus Vinícius Cavalcanti Barros[1], Dennys Salvino Sergio Pereira, Danilo Brasil Ribeiro, Ramon Feitosa Silva; [1]Universidade Federal do Rio Grande do Norte

SP3-L222 - Evaluation of the formation mechanism of zeolite 4A obtained from clays and sandy-clays rocks.

Yana Luck Nunes[1], Thisiania Romero Vieira Soares[1], Jardel Cavalcante Rolim de Almeida Andrade, Lindomar Roberto Damasceno da Silva; [1]Universidade Federal do Ceará

SP3-L223 - Importance of Si/Al ratio as a parameter of route for the synthesis of zeolite A and X

Ednaria Rabelo de Oliveira, Giseli Allende de Souza[1], Jardel Cavalcante Rolim de Almeida Andrade, José Hélio Saraiva Girão; [1]Universidade Federal do Ceará

SP3-L224 - Structural and photoluminescent properties of $Ba_{0,50}Sr_{0,50}MoO_4$ powders obtained by microwave-hydrothermal method

Içamira Costa Nogueira[1], Paula Fabiana Dos Santos Pereira, Mateus Meneghetti Ferrer[2], Maxímo Sui Li Li, José Arana Varela[3], Elson Longo; [1]Universidade Federal de São Carlos, [2]Universidade Federal de São Carlos - Campus: São Carlos, [3]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP3-L225 - Thin films of cupric oxide (CuO), obtained by the mixing of hydrothermal synthesis and organic synthesis

Marcelo Zampieri[1], José Arana Varela[2], Elson Longo; [1]Universidade Estadual Paulista - Araraquara, [2]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP3-L226 - Influence of the substrate in the photocatalytic efficiency of $SrTi_{0.99}Nd_{0.01}O_3$ thin films

Suelen Alves[1], Márcia Rejane Santos da Silva[2], Valérie Bouquet, Maryline Guilloux-Viry, Antônio Gouveia Souza, Ary da Silva Maia[2], Iêda Maria Garcia Santos[2]; [1]Universidade Federal da Paraíba, [2]Universidade Federal da Paraiba

SP3-L227 - Iron minerals influence on the sedimentology of pegmatite sandy-clay in the kaolinite extraction

Thisiania Romero Vieira Soares[1], Jardel Cavalcante Rolim de Almeida Andrade, Yana Luck Nunes[1], Giseli Allende de Souza[1], Lindomar Roberto Damasceno da Silva; [1]Universidade Federal do Ceará

SP3-L228 - The low-pressure ceramic injection moulding process applied to the fabrication of a ceramic component (thread-guide) used in the textile industry

Maria Rosimar Sousa, Eiji Harima[1]; [1]Instituto Federal de Educação, Ciência E Tecnologia do Rio Grande do Norte

SP3-L229 - Evaluation of yield in synthesis of zeolite LTA class in the presence of iron minerals

Jardel Cavalcante Rolim de Almeida Andrade, Thisiania Romero Vieira Soares[1], Yana Luck Nunes[1], Giseli Allende de Souza[1], Lindomar Roberto Damasceno da Silva; [1]Universidade Federal do Ceará

SP3-L230 - Structural properties of PLZT (9/65/35) thin films prepared by conventional chemical method.

Rafael Luiz Heleno Freire[1], Eudes Borges Araujo, Cicero Rafael Cena[2], Elton Carvalho Lima; [1]Universidade Estadual Paulista "júlio de Mesquita Filho" - Campus Ilha Solteira, [2]Universidade Estadual Paulista Júlio de Mesquita Filho

SP3-L231 - Preparation of mesoporous $Nb_2O_5.nH_2O$

Ary da Silva Maia[1], Ana Rosa Silva Neta, Elson Longo, Antônio Gouveia Souza, Iêda Maria Garcia Santos[1]; [1]Universidade Federal da Paraíba

SP3-L232 - Synthesis and characterization of vanadium pentoxide gels

Ary da Silva Maia[1], Samantha da Silva Guimarães, Márcia Rejane Santos da Silva[2], Elson Longo, Antônio Gouveia Souza, Iêda Maria Garcia Santos[2]; [1]Universidade Federal da Paraíba, [2]Universidade Federal da Paraiba

SP3-L233 - Influence of SBR latex in the mechanical properties of cementing matrices

Dulce Maria de Araujo Melo, Júlio César Oliveira Freitas, Filipe da Silva Oliveira, Ramon Feitosa Silva, Marcus Vinícius Cavalcanti Barros[1], Dennys Salvino Sergio Pereira, Danilo Brasil Ribeiro; [1]Universidade Federal do Rio Grande do Norte

SP3-L234 - Characterization of bismuth titanate synthesized by the oxidant peroxide method (OPM)

André Esteves Nogueira, Emerson Rodrigues Camargo

SP3-L235 - Flame Aerosol Synthesis of Calcium Phosphates

Diogo Kramer Topolski, Saulo Roca Bragança[1], Carlos Pérez Bergmann; [1]Universidade Federal do Rio Grande do Sul

SP3-L236 - Determination of optical constants and thickness of SBN ferroelectric thin films by transmission spectrum in UV-vis-NIR region

Cicero Rafael Cena[1], Elton Carvalho Lima, João Carlos Silos Moraes, Noélio Oliveira Dantas, Eudes Borges Araujo, Rafael Luiz Heleno Freire; [1]Universidade Estadual Paulista Júlio de Mesquita Filho

SP3-L237 - Synthesis and sintering of MgO-doped alumina powders with addition of seeds

Raphael Euclides Prestes Salem[1], Keterine Alves Guilherme, Adriana Scoton Chinelatto, Adilson Luiz Chinelatto; [1]Universidade Estadual de Ponta Grossa

SP3-L238 - Characterization of Composites of Polyurethane with Polyurethane Powder from Industrial Residues

Erica Silva Marinho[1], Cláudio Santos; [1]Centro Universitário Newton Paiva

SP3-L239 - Characterization of Granite Powder Compacts with the Addition of Coal Combustion Products

Halisson Souza Pinheiro, Silvio Veras Albuquerque, Paulo Demétrios da Silva, Ricardo Ferreira Nogueira

SP3-L240 - Solid-State Synthesis of Hydroxyapatite by Microwave Irradiation

Eden Batista Duarte[1], Ricardo Ferreira Nogueira, Silvio Veras Albuquerque; [1]Universidade Federal do Ceará

SP3-L241 - The effects of Tantalum on the $CaCu_3Ti_{4-x}Ta_xO_{12}$

Mayara Sacardo Ferreira[1], Francisco Moura Filho; [1]Universidade Federal de Itajubá

SP3-L242 - Post-mortem study of Al_2O_3-MgO-C refractory brick applied in steel ladle's side wall.
Bruno Vidal de Almeida[1], Matheus Martini[2], Fernando Vernilli Júnior, Vinícius Franco do Nascimento, Robersio Marinho de Faria, Fernando Fernandes da Silva, José Milton Gabriel Lopes; [1]Universidade de São Paulo, [2]Escola de Engenharia de Lorena - Universidade de São Paulo

SP3-L243 - Niobium stabilized zirconia obtained via Pechini method
José Hilton Rangel, José Elias Lopes, Maria Das Graças Costa, Adeilton Pereira Maciel, Marcelo Moizinho Oliveira, Elson Longo

SP3-L244 - Isovalent Doping of Structure Type Inverse Spinel: an Analysis of the Structural Effect of Cr(III) Insertion at High Levels Via Rietveld Method
Josiane Aparecida Sobrinho[1], Andreza Cristina Souza Silva[2], Caroline Polini[3], Silvania Lanfredi[4], Marcos Augusto de Lima Nobre, Ana Maria Pires[4]; [1]Universidade Estadual Paulista "júlio de Mesquita Filho", [2]Instituto de Química - Universidade Estadual Paulista, [3]Universidade Estadual Paulista, [4]Faculdade de Ciências E Tecnologia, Campus de Presidente Prudente

SP3-L245 - Mechanical characterization under bending loading of ceramics used in crafts on Icoaraci (Pa)
Nubia Suely Santos, Manoel Ribeiro da Silva[1], Sabina da Memória Cardoso de Andrade[2], Josenete Ferreira Mendes, Vitória Martins Soares Pamplona, José Antonio Castro da Silva; [1]Universidade Federal de Itajubá, [2]Universidade Estadual de Campinas

SP3-L246 - Development of porous ceramic as air humidity sensor for environmental monitoring
Rodrigo de Matos Oliveira, Maria do Carmo de A. Nono

SP3-L247 - Study of TiO_2 ceramics for biomedical applications
Ana Lucia do Amaral Escada[1], José Luis Minatti, Ana Paula Rosifini Alves Claro; [1]Universidade Estadual Paulista - Guaratinguetá

SP3-L248 - Athalpugite and Ionic Resin as adsorbent of thiophene on petroleum derivates
Rodolfo Luiz Medeiros, Dulce Maria de Araujo Melo, Marcus Antônio Melo, Renata Martins Braga, Vítor Rodrigo Melo, Joana Maria Barros

SP3-L249 - Electrical characterization of cerium-doped BGO glasses
José Ezequiel de Souza[1], Seila Rojas[2], Jean Claude M´peko, Antonio Carlos Hernandes[3,4]; [1]Universidade Federal da Grande Dourados, [2]Universidade Federal de Mato Grosso do Sul, [3]Universidade de São Paulo, [4]Instituto de Física de São Carlos

SP3-L250 - Characterization of the sludge produced on marble retailers and its potential application for ceramic and concrete industries
Telma Fernanda Eugênio[1], Wanderson Marinho Abreu, Antônio Valadão Cardoso; [1]Universidade Federal de Minas Gerais

SP3-L251 - Optical absortion and structural of tellurite glass
Aline Alcamin Monteiro, Vanessa Orsi Gordo, Keizo Yukimitu[1], José Brás Barreto de Oliveira[2]; [1]Universidade Estadual Paulista - Campus Ilha Solteira, [2]Faculdade de Ciências de Bauru - Unesp

SP3-L252 - The use of marble retailers waste as raw material for ceramic and concrete industries
Telma Fernanda Eugênio[1], Wanderson Marinho Abreu, Luciane Souza Melo; [1]Universidade Federal de Minas Gerais

SP3-L253 - Synthesis and Characterization of $Ce_{1-x}Nd_xO_{2-\delta}$ solid solutions by citrate-EDTA method
Heloisa Pimenta Macedo, Franscico Wendell Bezerra Lopes, Carlson Pereira Souza

SP3-L254 - Use of Computed Tomography for Detection of Internal Defects of Specimens of Concrete
José Carlos Alves Galvão, Walmor Cardoso Godoi, Kleber Franke Portella, Vitoldo Swinka Filho, Roberto Mendes, Katsue Fany Watanabe[1], Michael Douglas Fernandes Pelá; [1]Universidade Tecnológica Federal do Paraná

SP3-L255 - Formation of porous anodic films on recycled aluminium from Li-ion batteries
Surya de Jesus Cantarino[1], Alfredo Gonçalves Cunha, Marcos Benedito José Geraldo de Freitas; [1]Universidade Federal do Espírito Santo

SP3-L256 - Methodology in search of more stable structures of SiC and BN nanotubes using the semi-empirical AM1, B3LYP and Ab-Initio HF methods
Rogério José Costa, Jose Divino Dos Santos[1], João Batista Lopes Martins[2], Elson Longo, Marcos Reis Vargas, Gisley de Souza Brito, Montales Borges Oliveira; [1]Universidade Estadual de Goiás, [2]Universidade de Brasília

SP3-L257 - Technological control of concrete used on waffle slab, molded on construction, during building a supermarket in the city of Montes Claros

Rodrigo Bergami Trevizani[1], Cinthia Brito Fonseca[1], Fabrício Moura Dias; [1]Centro Universitário do Leste de Minas Gerais

SP3-L258 - Evaluation of the potential use of granite waste in ceramic tile

Raimison Bezerra de Assis[1], Amanda Lucena de Medeiros, José Flávio Timóteo Júnior[2]; [1]Universidade Federal do Rio Grande do Norte, [2]Universidade Federal do Amazonas

SP3-L259 - Porcelain made from bovine bone and granite waste

Eiji Harima[1], Elione Carlos Moura, José Leonaldo Souza, José Yvan Leite; [1]Instituto Federal de Educação, Ciência E Tecnologia do Rio Grande do Norte

SP3-L260 - Radio-frequency (RF) analysis of the dielectric ceramics: $Ca(Nb_{2/3}Li_{1/3})_{0.2}Ti_{0.8}O_{3-d}$ (CNLTOX)

Francisco Welton de Oliveira Amarante[1], Antonia Daniele S. Bruno Costa[1], Rodrigo Carvalho Souza Costa, Tatiana Sainara Maia Fernandes, Marcelo Antonio Santos da Silva, Gilberto Dantas Saraiva, Antonio Sérgio Bezerra Sombra; [1]Universidade Federal do Ceará

SP3-L261 - Properties of Al_2O_3-SiO_2 core-shell nanoparticles with addition of iron and cobalt oxides

Rogério Almeida Gouvêa[1], Tiago Delbücke[2], Sergio da Silva Cava, Neftalí Lenin Villarreal Carreño; [1]Universidade Federal de Pelotas, [2]Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais

SP3-L262 - Synthesis and characterization of Pyrochlore obtained by chemical method

Rafael Francisco Kutkoski[1], Vania Aparecida Novak, Celia Matsuda, Luiz Fernando Cótica, Andrea Paesano Jr.; [1]Universidade Estadual do Centro Oeste

SP3-L263 - Ferromagnetic and Ferroelectric properties at room temperature in $Pb(Fe_{1/2}Nb_{1/2})O_3$ multiferroics ceramics

Bárbara Maraston Fraygola[1], José Antônio Eiras[2], William Junior Nascimento[2], Ducinei Garcia, Nayana Frizon, Adelino de Aguiar Coelho; [1]Universidade Federal de São Carlos, [2]Universidade Federal de São Carlos - Campus: São Carlos

SP3-L264 - Study on the sintering of alumina nanoparticles: a sintering study in the gamma-alpha transition of alumina

Rogério Almeida Gouvêa[1], Tiago Delbücke[2], Neftalí Lenin Villarreal Carreño, Sergio da Silva Cava; [1]Universidade Federal de Pelotas, [2]Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais

SP3-L265 - Effect of the temperature in optical parameters in the reflectance spectrum of the composition $Li_2Zn_{1-3x/2}Fe_xTi_3O_8$ and $Li_2Zn_{1-3x/2}Cr_xTi_3O_8$

Luciano Nóbrega Azevedo[1], Anderson Marcelino Arandas, Francisco José Santos Lima, Elson Longo, Maria Suely Costa da Câmara[1]; [1]Universidade Federal Rural de Pernambuco

SP3-L266 - Analysis of the properties of ceramic coating fiber-reinforced lingnocelulósicas

Raimison Bezerra de Assis[1], Mozer de Meneses Mozer Meneses[1], Marcos Inácio da Rocha, Arthur Celso Soares Moreira, Salomão Sávio Batista, Janaína Karla de Medeiros Penha; [1]Universidade Federal do Rio Grande do Norte

SP3-L267 - Microestrutural analysis of porous stainless steel 316Lincorporated with gel bioglass.

Thayene Ribeiro Ferreira

SP3-L268 - Effect of synthesis method for obtaining the pigment $CoCr_2O_4$

Maria Suely Costa da Câmara[1], Érika Pinto Marinho, Luciano Nóbrega Azevedo[1], Thamara R N Clemente, Ieda Maria G Santos; [1]Universidade Federal Rural de Pernambuco

SP3-L269 - Formulation of Porcelainized Stoneware with Red Clay of the City Sao Goncalo do Amarante - RN

Flanelson Monteiro, José Leonaldo Souza, Samara Melo Valcacer, Tércio Graciano Machado

SP3-L270 - Linear and nonlinear refractive index of bismuth tellurite glasses

Fábio Alencar Dos Santos[1], Marcio da Silva Figueiredo, Keizo Yukimitu[2], Sandro Lima, Luis Humberto da Cunha Andrade, João Carlos Silos Moraes; [1]Universidade Estadual Paulista Julio de Mesquita Filho Campus de Ilha Solteira, [2]Universidade Estadual Paulista - Campus Ilha Solteira

SP3-L271 - Characterization and use of solid wastes from São Tomé stones production as raw material for silica-soda-lime glass

Wanderson Marinho de Abreu, Telma Fernanda Eugênio[1], Luciane Souza Melo, Antônio Valadão Cardoso; [1]Universidade Federal de Minas Gerais

SP3-L272 - Analysis of Incorporation of Granite and Marble Powder kaolinite clay in Boa Saúde-RN

Flanelson Monteiro, Tércio Graciano Machado, Samara Melo Valcacer, Uílame Gomes, Gilson Gracia

Silva, C. S.

SP3-L273 - Synthesis of pure and doped $YAlO_3$ powders by a soft chemistry route

Jesiel Freitas Carvalho, Antonio Lazo, Simone Ferreira Almeida Cruz, Ricardo Costa de Santana

SP3-L274 - Cr-doped Al2O3 pigments encapsulated with SiO2 coreshell obtained by the polymeric precursor method

Sergio da Silva Cava, Fernando Augusto Moraes, Tiago Delbücke[1], Rogério Almeida Gouvêa[2], Neftalí Lenin Villarreal Carreño, César Antonio Oropesa Avellaneda; [1]Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais, [2]Universidade Federal de Pelotas

SP3-L275 - Microestrutural analysis of porous stainless steel 316L impregnated in molten bioglass.

Rebeca de Castro Neves, Fernando Vernilli Júnior, Gilbert Silva

SP3-L276 - Effect of Incorporation of waste (grog, marble and granite) of the red ceramic industry.

Ricardo Neves Bedoya[1,2], Artudônio Dantas Prado; [1]Instituto Federal do Maranhão, [2]Instituto Federal de Educação, Ciência E Tecnologia do Maranhão

SYMPOSIUM M

Advances and Applications of Electron Microscopy

Chairs

Marcelo Ornaghi Orlandi (São Paulo State University)
Conrado Ramos Moreira Afonso (UFSCar)

ORAL PRESENTATIONS

* Invited Lecture

MONDAY , SEPTEMBER 26TH

SESSION M1
09:30 - 10:30 - Room 12

09:30 - M1.1*

Non-conventional electron tomography of nanostructures

Antonio J. Ramirez[1], Daniel Grando Stroppa[1,2], Luciano Montoro, Augusta Cerceau Isaac, Ricardo Diogo Righetto[3], Edson Roberto Leite; [1]Brazilian Nanotechnology National Laboratory, [2]University Of Campinas, [3]Laboratório Nacional de Luz Sincrotron

10:00 - M1.2

Dual beam microscopy: a versatile technique for material science and metrology.

Braulio Soares Archanjo[1], Suzana Botega Peripolli, Taeko Yonamine, Carlos Alberto Achete[2]; [1]Inmetro, [2]Instituto Nacional de Metrologia, Normalização E Qualidade Industrial

10:15 - M1.3

Strain mapping of engineering materials at in situ SEM experiments by an integrated image processing tool

Ricardo Diogo Righetto[1], Pedro Gabriel Rubira Calsavara, Edwar Andres Torres[1], Antonio J. Ramirez[2]; [1]Laboratório Nacional de Luz Sincrotron, [2]Brazilian Nanotechnology National Laboratory

SESSION M2
11:00 - 12:30 - Room 12

11:00 - M2.1*

Characterization of Phase Transformations and Complex Structures in the High Temperature Ti-Pt and Ti-Ni-Pt Shape Memory Alloy Systems

Michael J. Kaufman

11:30 - M2.2*

New perspectives in the analysis of metal alloysthrough automatic diffraction pattern identification atTEM

Andre Luiz Pinto, Tatiana Lisboa Marcondes

11:45 - M2.3

Characterization of oxide layers grown on Fe-Mn-Si-Cr-Ni alloys after cyclic oxidation.

Artur Mariano de Sousa Malafaia[1], Lucía Suarez Fernandez, Jose Maria Cabrera Marrero, Marcelo Tadeu Milan, Marcelo Falcão de Oliveira; [1]Interunidades - Materiais - Eesc/ifsc/iqsc

12:00 - M2.4

Doloma-C refractories microstructure: investigation and comparative analysis

Saulo Roca Bragança[1]; [1]Universidade Federal do Rio Grande do Sul

SESSION M3
15:00 - 16:00 - Room 12

15:00 - M3.1*

Bonding and Electronic Structure of Nanomaterials and Interfaces with Electron Energy Loss Spectroscopy

Gianluigi Botton

15:30 - M3.2
Reconstruction of Nanocrystals 3D Morphology by HAADF-HRSTEM
Daniel Grando Stroppa[1,2], Ricardo Diogo Righetto[3], Luciano Montoro, Edson Roberto Leite, Antonio J. Ramirez[3]; [1]Brazilian Nanotechnology National Laboratory, [2]University Of Campinas, [3]Laboratório Nacional de Luz Sincrotron

15:45 - M3.3
Study of adsorbed gases in the system of field emission microscopy
Marcos Henrique Mamoru Otsuka Hamanaka, Michele Odnicki da Silva, Alexandre Cândido de Paulo, Fernando Fuzinatto Dal`agnol, Thebano Emílio de Almeida Santos[1], Victor Pellegrini Mammana, Peter Jürgen Tatsch; [1]Centro de Tecnologia da Informação Renato Archer

TUESDAY , SEPTEMBER 27TH

SESSION M4
09:30 - 10:30 - Room 12

09:30 - M4.1*
Atomic-resolution electron microscopy applications
Andrea Porto Carreiro Campos, Sandra Marcela Landi, Daniel Lorscheitter Baptista

10:00 - M4.2
Ultra-small magnetic nanoparticles studied by High- Resolution Transmission Electron Microscopy
Leandro M. Socolovsky[1,2], Ricardo Martínez García; [1]Universidad de Buenos Aires, [2]Consejo Nacional Investigaciones Científicas Y Tecnológicas

10:15 - M4.3
High resolution study and chemical phase of the strong diamond/silicon nitride interface using HRTEM, STEM and EELS line profiling
Daniel Lorscheitter Baptista, Suzana Botega Peripolli, Flávia A. Almeida, Rui F. Silva, Carlos Alberto Achete[1]; [1]Instituto Nacional de Metrologia, Normalização E Qualidade Industrial

SESSION M5
11:00 - 12:30 - Room 12

11:00 - M5.1*
Nanocrystalline structure of non-stoichiometric CeO_2 thin films investigated by XPS, XANES, and EELS
Dante Homero Mosca[1]; [1]Universidade Federal do Paraná

11:30 - M5.2*
Characterization of Ag/TiO2 Systems by Scanning and High Resolution Transmission Electron Microscopies
Nelcy Della Santina Mohallem

12:00 - M5.3
Contributions from microscopy techniques for the mechanism elucidation of TiO_2 nanoparticles photocatalytic activity
Caue Ribeiro de Oliveira, Vagner Romito Mendonça, Waldir Avansi Junior, Gabriela Soares, Henrique Aparecido de Jesus Loures Mourão

12:15 - M5.4
Atomic structures of the (010) hydroxyapatite surface
Carlos Ospina[1], Joice Terra, Donald E. Ellis, Antonio J. Ramirez[1], Alexandre Malta Rossi; [1]Brazilian Nanotechnology National Laboratory

POSTER PRESENTATIONS

TUESDAY , SEPTEMBER 27TH

SESSION SP2
14:00 - 16:00 - Exhibition Hall

SP2-M1 - Characterization of impregnated wood with chromated copper arsenate certification seeking of a reference standard of treated wood
Luciana Gampert Miranda[1], Suzana Freghetto Ferrarini, Heldiane Souza Dos Santos, Rafael Colombo Abruzzi, Carla Maria Nunes Azevedo, Marçal José Rodrigues Pires; [1]Pontifícia Universidade Católica do Rio Grande do Sul

SP2-M2 - Microscopy as a tool for wood identification of national heritage historical buildings
Edilson Nunes Pollnow[1], Margarete Regina Freitas Gonçalves, Neftalí Lenin Villarreal Carreño, Ricardo Marques E Silva[2], Darci Alberto Gatto, Kelly Cristina Cardoso, Anderson Pires Aires; [1]Universidade Federal de Pelotas, [2]Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais

SP2-M3 - Effects of CNT functionalization on the Production of Cu-MWCNT Nanocomposites
Martin Emilio Mendoza, Ivan Guillermo Solórzano-Naranjo, Andrea Porto

SP2-M4 - Previews on news procedures in EPMA. Invariant imbedding applications for characterization of zirconium compounds.
Carlos Miguel Figueroa[1], Nicolás Enrique Nieva, Silvia Inés Pérez; [1]Universidad Nacional de Tucumán

SP2-M5 - Microstructure characterization of hexagonal martensite decomposition and phase precipitation in Ti–Cu alloys.
Conrado Ramos Moreira Afonso[1], Flavia F. Cardoso, Alessandra Cremasco, Rodrigo J. Contieri, Eder Lopes, Rubens Caram; [1]Universidade Federal de São Carlos

SP2-M6 - Electron microscopy characterization of a laser remelted coating of $Al_{91}Fe_4Cr_3Ti_2$ quasicrystalline alloy.
Piter Gargarella, Conrado Ramos Moreira Afonso[1], Rui Mario Correia da Silva Vilar, Claudio S. Kiminami, Carlos Triveño Rios, Claudemiro Bolfarini, Walter José Botta; [1]Universidade Federal de São Carlos

SP2-M7 - Microstructure and phase equilibria of the biogenic CaCO3 on shell of the bivalve Limnoperna fortunei
Arnaldo Nakamura Filho[1], Antônio Valadão Cardoso, Diovane George de Aquino E Silva, Vitor José Pinto Gouveia, Arthur Almeida, Marcela David, Helen Mota; [1]Fundação Centro Tecnologico de Minas Gerais

SP2-M8 - Failure analysis of landing gear springs
Emilio Monleon Raccanelli de Moraes Melo[1], Nicélio José Lourenço, Mário Lima de Alencastro Graça, Olivério Moreira de Macedo Silva, Leandro Augusto Lemos Franco; [1]Escola de Engenharia de Lorena - Universidade de São Paulo

SP2-M9 - VP-ESEM and AFM correlative microscopy for qualitative and quantitative fracture characterization of plain weave carbon/epoxy composites
Kamila Amato de Campos[1], Luis Rogerio de Oliveira Hein; [1]Faculdade de Engenharia de Guaratingueta

SP2-M10 - Characterization of AISI 316 nitrided steel by TEM
Frederico Augusto Pires Fernandes[1], Luiz Carlos Casteletti, George Edward Totten, Juno Gallego; [1]Universidade de São Paulo

SP2-M11 - Fractography of carbon fiber filaments with defects in structural composite tested on tension static loading
Geraldo Maurício Cândido[1], José Antônio Peixoto Cunha, Michelle Leali Costa, João Carlos Fernandes, Mirabel Cerqueira Rezende; [1]Instituto de Aeronáutica E Espaço

SP2-M12 - Fractographic interpretation of failure mechanisms in resin-rich regions of bidirectional textile composites
Geraldo Maurício Cândido[1], Rogério Duque Gonçalves, Elizabeth Godoy Cezar Salgado, Mirabel Cerqueira Rezende; [1]Instituto de Aeronáutica E Espaço

SP2-M13 - The Effect of Crystal Growth by Oriented Attachment inTiO_2 Photoluminescence
Vagner Romito Mendonça, Waldir Avansi, Caue Ribeiro de Oliveira

SP2-M14 - Failure Analysis of a Backhoe Bucket Tool
Carlos Eduardo Celestino de Andrade[1], Thiago Figueiredo Azevedo, Silvando Vieira Dos Santos, Abraao Santos Silva, Sandro Griza; [1]Universidade Federal de Sergipe

SP2-M15 - Flaw characterization in ASTM A283 pressure vessel
Carlos Eduardo Celestino de Andrade[1], Thiago Figueiredo Azevedo, Silvando Vieira Dos Santos, Emerson Rego Goes, Sandro Griza; [1]Universidade Federal de Sergipe

SP2-M16 - Low temperature aging effects on the PL behavior of Pb implanted silica
F. P. Luce, F. Kremer, Dario Ferreira Sanchez, Z. E. Fabrim, Cristiane Marin[1], F. C. Zawislak, Paulo F. P. Fichtner[2]; [1]Post-Graduation Course In Material Science, [2]Universidade Federal do Rio Grande do Sul

SP2-M17 - Silica/silicon interface nanostructuration via ion beam synthesis
F. P. Luce, F. Kremer, Dario Ferreira Sanchez, Z. E. Fabrim, Shay Reboh, F. C. Zawislak, Paulo F. P. Fichtner[1]; [1]Universidade Federal do Rio Grande do Sul

SP2-M18 - Dual phase two-dimensional arrays of metallic Pb nanoparticles formed at SiO_2/Si interfaces
F. Kremer, F. P. Luce, Z. E. Fabrim, Shay Reboh, Dario Ferreira Sanchez, F. C. Zawislak, P. F.p. Fichtner

SP2-M19 - He-Ne co-implantation into Si(111) substrates and thermal annealing
Ludmar Guedes Matos[1], Rogério Luis Maltez, P. F.p. Fichtner; [1]Universidade Federal do Rio Grande do Sul

SP2-M20 - Field emission scanning electron microscopy in combination with transmission electron microscopy for understanding CuO crystallization and its gas sensor properties
Diogo Paschoalini Volanti[1], Anderson André Felix, Marcelo Ornaghi Orlandi[2], Elson Longo, José Arana Varela[3]; [1]Instituto de Quimica Unesp, [2]Instiruto de Quimica Unesp, [3]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP2-M21 - Electron Microscopy Characterization of SnO Nanomaterials for Gas Sensor Applications

Pedro Henrique Suman[1], Marcelo Ornaghi Orlandi[2]; [1]Universidade Estadual Paulista "júlio de Mesquita Filho" (Unesp), [2]Instituto de Quimica Unesp

SP2-M22 - Synthesis and Characterization of ITO Nanomaterials Obtained by Microwave Assisted Hydrothermal Method

Fernando Borges Modesto, Marcelo Ornaghi Orlandi[1], José Arana Varela[2]; [1]Instituto de Quimica Unesp, [2]Sociedade Brasileira de Pesquisa Em Materiais - Sbpmat

SP2-M23 - Electron Microscopy Laboratory at LNNano

Marina Magnani[1], Carlos Kazuo Inoki, Rodrigo Villares Portugal, Jefferson Bettini, Luciano A. Montoro Montoro, Luis Fernando Zagonel, Antonio J. Ramirez[1]; [1]Brazilian Nanotechnology National Laboratory

SP2-M24 - Characterization of oxide layers grown on a Fe-15%Si alloy after cyclic oxidation at 800°C

Artur Mariano de Sousa Malafaia[1], Lucía Suarez Fernandez, Jose Maria Cabrera Marrero, Marcelo Tadeu Milan, Omar Maluf, Marcelo Falcão de Oliveira; [1]Interunidades - Materiais - Eesc/ifsc/iqsc

SP2-M25 - Applications of scanning electronic microscopy in material's study

Rafael Mello Lattuada[1], Rafael Gustavo Torres Leal; [1]Universidade Federal do Rio Grande do Sul

SP2-M26 - Advances in instrumentation and applications for Atom Probe Tomography

Francois Horreard, Alexandre Houssou, David J Larson, Peter H Clifton, Thomas F Kelly

SP2-M27 - X Ray Energy Dispersive Spectrometry and Monte Carlo Simulations of Isothermally Heat Treated Fe2C5V5Cr5Mo5W Multi-component Alloy' Carbides

Helio Goldenstein[1], Isaac Jamil Sayeg[1], Mário Boccalini Jr.; [1]Escola Politécnica da Universidade de São Paulo

SP2-M28 - Recycling of PP loaded with recycled mineral

Cristina Das Gracas Fassina[1], Osmar Roberto Bagnato, Giuliano Spinelli; [1]Universidade São Francisco

SYMPOSIUM N

Prospects for materials science with synchrotron radiation in Brazil

Chairs

Gustavo Azevedo (IF-UFRGS)
Eduardo Granado (IF-UNICAMP/LNLS)
Guinther Kellermann (DF-UFPR)
Fabio Furlan (UFABC)

ORAL PRESENTATIONS

* Invited Lecture

MONDAY , SEPTEMBER 26TH

SESSION N1
09:30 - 10:30 - Room 13

09:30 - N1.1*

Sirius – the new Brazilian synchrotron light source

Ricardo Rodrigues[1]; [1]Laboratório Nacional de Luz Sincrotron

10:00 - N1.2*

The X-Ray Diffraction and Spectroscopy (XDS) Beamline at the Brazilian Synchrotron Laboratory (LNLS)

Eduardo Granado[1]; [1]Universidade Estadual de Campinas

SESSION N2
11:00 - 12:30 - Room 13

11:00 - N2.1*

Reentrant pressure-induced valence transition in EuO

Narcizo Souza Neto

11:30 - N2.2

Structural characterization of thin chalcogenide films using Synchrotron radiation

Leandro Langie Araujo[1], Raquel Giulian, Mark Cameron Ridgway[2]; [1]Universidade Federal do Rio Grande do Sul, [2]Australian National University

11:45 - N2.3

Study by TEM and GISAXS of coherent $CoSi_2$ nanoplates buried in Si(100)

P. Cecilia Dos Santos Claro, Lisandro J. Giovanetti, Felix G. Requejo, Luciano A. Montoro Montoro, Antonio J. Ramirez[1], Aldo Felix Craievich, Guinther

Kellermann[2]; [1]Brazilian Nanotechnology National Laboratory, [2]Universidade Federal do Paraná

12:00 - N2.4*

The use of synchrotron radiation to probe finite-size effects in metal nanoparticles

Mark Cameron Ridgway[1]; [1]Australian National University

SESSION N3
15:00 - 16:00 - Room 13

15:00 - N3.1*

New opportunities in Nanoscience Research using Synchrotron Radiation at LNLS

Rogerio Magalhaes Paniago[1]; [1]Universidade Federal de Minas Gerais

15:30 - N3.2

Study of kinetics of formation of graphitic nanotubes

Cilâine Verônica Teixeira[1]; [1]Unversidade Federal do Rio Grande de Sul

15:45 - N3.3

Study by GISAXS of the thermally activated dissolution of PbTe nanocrystals in SiO_2 glass

Giuliana Pavaneli[1], Guinther Kellermann[1], Eugenio Rodriguez, Luiz Carlos Barbosa, Aldo Felix Craievich; [1]Universidade Federal do Paraná

TUESDAY , SEPTEMBER 27TH

SESSION N4
09:30 - 10:30 - Room 13

09:30 - N4.1*

Synchrotron hard x-ray imaging from micro- to nanometer scale: developments and perspectives in Brazil.

Angelo Malachias[1]; [1]Universidade Federal de Minas Gerais

10:00 - N4.2

Structure of $Ba_{0.90}Ca_{0.10}Ti_{1-x}Zr_xO_3$ Ferroelectric ceramic compounds probed by multiedge X-ray absorption spectroscopy

Valmor Roberto Mastelaro[1], Alain Michalowicz, Higor Favarim, Alexandre Mesquita, Stephanie Belin; [1]Universidade de São Paulo - Eesc/ifsc/iqsc

10:15 - N4.3

Crystal structure determination of propylthiouracil by means of high-resolution synchrotron X-ray powder diffraction data

Fabio Furlan Ferreira[1], Antonio Carlos Trindade, Selma Gutierrez Antonio, Carlos O. Paiva-Santos; [1]Universidade Federal do Abc

SESSION N5
11:00 - 12:30 - Room 13

11:00 - N5.1*

Scientific opportunities with PGM- Planar Grating Monochromator beamline at LNLS

Abner de Siervo[1]; [1]Universidade Estadual de Campinas

11:30 - N5.2

Core-Shell formation and Sulfur Reactivity of Nanoparticles Studied by In-situ XAS and S-XPS

Jonder Morais, Fabiano Bernardi[1], Alex Sandre Kilian, Jocenir Boita, Adriana Rodrigues[2], Maria do Carmo Martins Alves; [1]Lawrence Berkeley National Laboratory, [2]Universidade Federal do Rio Grande do Sul

11:45 - N5.3

Ambient pressure XPS (APXPS) characterization of Rh-Pd/CeO_2 bimetallic nanoparticles under reducing and oxidizing atmospheres

Fabiano Bernardi[1], Michael Grass, Naila Jabeen, Young Hong, Rui Chang, Zahid Hussain, Zhi Liu; [1]Lawrence Berkeley National Laboratory

12:00 - N5.4

Local structure of $Pb(Fe_{1/2}Nb_{1/2})O_3$ and $Pb(Fe_{2/3}W_{1/3})_{1-x}Ti_xO_3$ multiferroic materials probed by X-ray absorption spectroscopy

Bárbara Maraston Fraygola[1], Eriton Rodrigo Botero[2], Alexandre Mesquita, Valmor Roberto Mastelaro[3], José Antônio Eiras[4]; [1]Universidade Federal de São Carlos, [2]Fundação Universidade Federal da Grande Dourados, [3]Universidade de São Paulo - Eesc/ifsc/iqsc, [4]Universidade Federal de São Carlos - Campus: São Carlos

12:15 - N5.5

Luminescence of $Ca_2Al_2SiO_7$: Ce^{3+}, Mn^{2+}

Veronica de Carvalho Teixeira[1], Paulo Jorge Ribeiro Montes, Mario Ernesto Valerio[1]; [1]Universidade Federal de Sergipe

POSTER PRESENTATIONS

MONDAY , SEPTEMBER 26TH

SESSION SP1
16:00 - 18:00 - Exhibition Hall

SP1-N1 - Influence of optical properties on the photocatalytic activity of ZnO films

Talita Ströher Bürger[1], Fabiano Bernardi[2], Jonder Morais, Maria do Carmo Martins Alves; [1]Federal University Of Rio Grande do Sul, [2]Lawrence Berkeley

National Laboratory

SP1-N2 - Measurements of photon stimulated desorption for different cleaning processes of materials used for NSLS-II beam chamber
Marcelo Juni Ferreira[1], Hsiao-Chaun Hseuh, Rafael Molena Seraphim, Gustavo Rossignatti Gomes; [1]Brookhaven National Laboratory

SP1-N3 - Synthesis and properties of ZnO: Correlation between structural properties and photocatalytic activity
Carlos Willian Feltrin, Maria do Carmo Martins Alves, Jonder Morais

SP1-N4 - Polymorphism characterization of mefloquine hydrochloride by means of X-ray powder diffraction data and the Rietveld method.
Vânia Mendes Prado[1], Rafael Seiceira, Antonio Carlos Trindade, Fabio Furlan Ferreira[1]; [1]Universidade Federal do Abc

SP1-N5 - Analysis of excipients in commercialized pharmaceutical tablets
Laysa Pires de Figueiredo[1], Selma Gutierrez Antonio, Carlos Oliveira Paiva-Santos, Fabio Furlan Ferreira[1]; [1]Universidade Federal do Abc

SP1-N6 - Crystal structure characterization of isoniazid by means X-ray powder diffraction and the Rietveld method
Amanda Laura Ibiapino[1], Rafael C Seiceira, Antonio Carlos Trindade, Fabio Furlan Ferreira[1]; [1]Universidade Federal do Abc

SP1-N7 - Study of crystal structures of albendazole with the use of X-ray powder diffraction
Kelly Cristina de Lira Lixandrao[1], Fabio Furlan Ferreira[1]; [1]Universidade Federal do Abc

SP1-N8 - Diamond film growth on copper substrates coated by chromium interlayer with high nucleation density for a study on photon stimulated desorption
Kenya Aparecida Alves[1], Evaldo José Corat, João Roberto Moro, Vladimir José Trava-Airoldi, Raonei Alves Campos; [1]Instituto Nacional de Pesquisas Espaciais

SP1-N9 - Crystal structure determination of two polymorphic forms of rifampicin by means of high-resolution synchrotron X-ray powder diffraction data
Mariana Cristina Pires do Amaral[1], Rafael Seiceira, Antonio Carlos Trindade, Fabio Furlan Ferreira[2]; [1]Fundação Universidade Federal do Abc, [2]Universidade Federal do Abc

SP1-N10 - Crystal structure characterization of raw materials and tabletsof stavudine using X-ray powder diffraction data
Wagner Jose Odilon[1], Rafael Seiceira, Antonio Carlos Trindade, Fabio Furlan Ferreira[1]; [1]Universidade Federal do Abc

SP1-N11 - Observation of the structural phase transition of lanthanum perovskite precursors by two-dimensional correlation analysis of X-ray Absorption Near Edge Structure spectra and Raman Spectra.
Glauber Silva Godoi, Renato Canha Ambrosio, Rodolfo Junqueira Brandão

SP1-N12 - Biomedical Application of Synchrotron X-ray Microfluorescence Imaging
Inaya Lima[1], Gabriela Ribeiro Pereira, Jose Mauro Granjeiro, Monica Calasans-Maia, Alexandre Malta Rossi, Carlos Perez, Ricardo Tadeu Lopes; [1]Universidade Federal do Rio de Janeiro

SP1-N13 - Study of structural materials using in situ synchrotron x-ray diffraction
Leonardo Wu[1], Antonio J. Ramirez[1], Augusta Cerceau Isaac, Thaís Cristina Alonso; [1]Brazilian Nanotechnology National Laboratory

SP1-N14 - Electronic structure of TPD and NPB molecules by NEXAFS spectroscopy
Carlos Xavier de Oliveira[1], Gunar Vingre da Silva Mota, Antônio Maia de Jesus Chaves Neto, Maria Luiza de Miranda Rocco, Marco Cremona, Welber Gianini Quirino; [1]Universidade Federal do Pará

SP1-N15 - Phase evolution of iron oxide studied by synchrotron X-ray powder diffraction
Flavio Leandro Souza, Allan Moreira Xavier, Lucas Costa de Castro Ferraz, Vitor Alexandre Nunes de Carvalho, Fabio Furlan Ferreira[1]; [1]Universidade Federal do Abc

SP1-N16 - GISAXS characterization of buried Pb nanoparticles
Dario Ferreira Sanchez, F. P. Luce, F. Kremer, Z. E. Fabrim, Frâncio Souza Berti Rodrigues, Gustavo de Medeiros Azevedo[1], Guinther Kellermann[2]; [1]Universidade Federal do Rio Grande do Sul, [2]Universidade Federal do Paraná

SP1-N17 - The Rietveld method and quantitative phase analysis. Problems of sampling in the study of polymorphism in raw materials of drugs.
Carlos Oliveira Paiva-Santos, Selma Gutierrez Antonio, Fabio Furlan Ferreira

SP1-N18 - Crystallite size changes after micronization in prednicarbate pharmaceutical.
Flavio Machado de Souza Carvalho, Selma Gutierrez Antonio, Carlos Oliveira Paiva-Santos, Jivado Rosário Mattos, Hélio Salvio Neto

SYMPOSIUM O

1st Brazilian Symposium in Friction Stir Welding and Processing

Chairs

Antonio J. Ramirez (Nanotechnology National Laboratory)
Fernando Fernandez (Embraer)
Maysa Terada (Nanotechnology National Laboratory)

ORAL PRESENTATIONS

* Invited Lecture

MONDAY , SEPTEMBER 26TH

SESSION O1
09:30 - 10:30 - Room 22

09:30 - O1.1*
Precipitation Phenomena in AA7449 Friction Stir Welds: an in-situ Study
Jorge Dos Santos

10:00 - O1.2
Friction Stir Welding for bird impact applications
Andreza Sommerauer Franchim Viliotti[1], Fernando Ferreira Fernandez[1], Marcos Hideki Miyazaki[1]; [1]Embraer

10:15 - O1.3
An Indirect Method for calculate weld residual stresses via fatigue crack growth test data and comparison
Julio Antonio Beltrami da Silva[1], Edson Haruo Miyaura, Renato Pavanello; [1]Universidade Estadual de Campinas

SESSION O2
11:00 - 12:30 - Room 22

11:00 - O2.1*
Friction Stir Welding in Oil and Gas Applications
Russell J Steel, Murray Mahoney, Jeremy Peterson, Sam Sanderson, Paul Higgins, Scott Packer

11:30 - O2.2
Repair of cracks through Friction Taper Plug Welded
Emanoela Mattos, Cleber Lessa, Pedro Cunha, Gabriel Cogo, Márcio Macedo, Marcelo T.p. Paes, Afonso Reguly

11:45 - O2.3
Microstructural study of Inconel 625 to low carbon steel lap joint by friction stir welding
Johnnatan Rodríguez[1], Antonio J. Ramirez[2]; [1]Laboratório Nacional de Luz Sincrotron, [2]Brazilian Nanotechnology National Laboratory

12:00 - O2.4
FEM modeling of titanium thin sheet joining with FSW processing
Adalto de Farias, Gilmar Ferreira Batalha, Sérgio Delijaicov, Marco Stipkovic Filho

12:15 - O2.5
Friction stir welding of duplex stainless steel
Antonio J. Ramirez[1], Tiago F.a. Santos; [1]Brazilian Nanotechnology National Laboratory

SESSION O3
15:00 - 16:00 - Room 22

15:00 - O3.1
Mechanical Behavior of AA2024-T3 Friction Spot Welds
José Antonio Esmerio Mazzaferro[1], Tonilson de Souza Rosendo[2], Cintia Petry Mazzaferro, Marco Antonio Durlo Tier, Telmo Roberto Strohaecker, Jorge Dos Santos; [1]Universidade Federal do Rio Grande do Sul, [2]Fundação Universidade Federal do Pampa

15:15 - O3.2
Development of Industrial Applications for Friction Stir Welding
Brian Thompson, Jon Jennings, Tim Stotler

15:30 - O3.3
The optimization of FSSW parameters for tensile resistance on AA2024 lap-joints.
Artur Mariano de Sousa Malafaia[1], Marcelo Tadeu Milan, Gustavo Monteiro Dias, Marcelo Falcão de Oliveira, Dirceu Spinelli; [1]Interunidades - Materiais - Eesc/ifsc/iqsc

15:45 - O3.4
Investigation of the Mechanical Performance of FSpW Joints in AA6181-T4 Under Shear Tensile Loading
Tonilson de Souza Rosendo[1], Marco Antonio Durlo Tier, José Antonio Esmerio Mazzaferro[2], Cintia Mazzaferro, Antonio Monaco da Silva, Jorge Dos Santos, Afonso Reguly; [1]Fundação Universidade Federal do Pampa, [2]Universidade Federal do Rio Grande do Sul

TUESDAY , SEPTEMBER 27TH

SESSION O4
09:30 - 10:30 - Room 22

09:30 - O4.1*
Friction Stir Welding of X70 and X80 Steel
Brian Thompson, John Seaman, Mike Eff

10:00 - O4.2
Friction stir welding of highly alloyed ISO 3183 X80M steel for application in oil and natural gas pipelines - Insight into the microestrutural evolution
Antonio J. Ramirez[1], Tahiana F.c. Hermenegildo, Tiago F.a. Santos, Conrado Ramos Moreira Afonso[2], Ricardo R. Marinho, Marcelo T.p. Paes; [1]Brazilian Nanotechnology National Laboratory, [2]Universidade Federal de São Carlos

10:15 - O4.3
Friction stir spot welding of advanced high strength steel
Cintia Petry Mazzaferro, Tonilson de Souza Rosendo[1], Marco Antonio Durlo Tier, José Antonio Esmerio Mazzaferro[2], Jorge Dos Santos, Telmo Roberto Strohaecker; [1]Fundação Universidade Federal do Pampa, [2]Universidade Federal do Rio Grande do Sul

SESSION O5
11:00 - 12:30 - Room 22

11:00 - O5.1*
Recent FSW developments
Jonathan Martin[1]; [1]Twi Technology Centre

11:30 - O5.2
Friction Taper Plug Welding - Aeronautic application
Marcos Hideki Miyazaki[1]; [1]Embraer

11:45 - O5.3
Dissimilar aluminum-steel joining by FSW Thermal history and microstructural characterization
Edwar Andres Torres[1], Antonio J. Ramirez[2]; [1]Laboratório Nacional de Luz Sincrotron, [2]Brazilian Nanotechnology National Laboratory

12:00 - O5.4
Mechanical properties comparison of friction stir welding butt joints of AA1100 made in a conventional milling machine and a FSW machine
Julio César Zapata[1], Julián Valderrama, Elizabeth Hoyos, Diana María López; [1]Universidad Nacional de Colombia

12:15 - O5.5
Proposal of a network for R&D on Friction Stir Processing
Fernando Ferreira Fernandez[1]; [1]Embraer

POSTER PRESENTATIONS

MONDAY , SEPTEMBER 26TH

SESSION SP1
16:00 - 18:00 - Exhibition Hall

SP1-O1 - Research on tooling materials for titanium FSW processing
Adalto de Farias, Gilmar Ferreira Batalha, Sérgio Delijaicov, Marco Stipkovic Filho

SP1-O2 - Investigation of superplasticity in a friction stir processed 5054 Al alloy
Gelson Freitas Miori, Erika Fernanda Prados[1], Gilmar Ferreira Batalha; [1]Escola Politécnica da Universidade de São Paulo

SP1-O3 - Equipments for friction welding procedure development
Facundo Sebastián López[1], Fabiano Mattei, Telmo Roberto Strohaecker; [1]Universidade Federal do Rio Grande do Sul

SP1-O4 - Investigation of Mechanical Properties of AA2024 Welded by Friction Stir Spot Welding – Refill Process
Marco Antonio Durlo Tier, Tonilson de Souza Rosendo[1], José Antonio Esmerio Mazzaferro[2], Cintia Mazzaferro, Telmo Roberto Strohaecker, Jorge Dos Santos; [1]Fundação Universidade Federal do Pampa, [2]Universidade Federal do Rio Grande do Sul

SP1-O5 - FSSW feasibility and properties in DP600 steel.
Artur Mariano de Sousa Malafaia[1], Marcelo Tadeu Milan, Marcelo Falcão de Oliveira; [1]Interunidades - Materiais - Eesc/ifsc/iqsc

SP1-O6 - Physical simulation of friction stir welding on UNS S32205 duplex stainless steel
Eduardo Bertoni Fonseca[1,2], Tiago F.a. Santos, Sergio Tonini Button, Antonio J. Ramirez[2]; [1]Brazilian Nanotechnology National Laboratory, [2]State University Of Campinas

SP1-O7 - Thermal modeling of dissimilar aluminum-steel joints welded by FSW
Hugo Sakai Idagawa[1], Edwar Andres Torres[1], Antonio J. Ramirez[2]; [1]Laboratório Nacional de Luz Sincrotron, [2]Brazilian Nanotechnology National Laboratory

SP1-O8 - Microstructural characterization of X70

steel underwater friction stir welded
Maysa Terada[1], Antonia Daniele S. Bruno Costa[2], Victor F. Pereira, Ricardo R. Marinho, Marcelo T.p. Paes, Antonio J. Ramirez[3]; [1]Laboratório Nacional de Nanotecnologia, [2]Universidade Federal do Ceará, [3]Brazilian Nanotechnology National Laboratory

SP1-O9 - Friction Stir Welding for pressurized aircraft structure
Andreza Sommerauer Franchim Viliotti[1], Marcos Hideki Miyazaki[1], Fernando Ferreira Fernandez[1]; [1]Embraer

SP1-O10 - Correlation of microstructure and corrosion behaviour of friction stir welded duplex stainless steel
Marina Magnani[1], Raquel Rolim Menezes de Queiroz, Maysa Terada[2], Tiago F.a. Santos, Antonio J. Ramirez[2]; [1]Brazilian Nanotechnology National Laboratory, [2]Laboratório Nacional de Nanotecnologia

SP1-O11 - A brief analysis of repairs made with hydropillar welding and related processes
Pedro Pereira da Cunha

SYMPOSIUM P

Graphene

Chairs

Luiz Gustavo Cançado (Departamento de Física – UFMG)
Ado Jorio (Departamento de Física – UFMG)

ORAL PRESENTATIONS

* Invited Lecture

MONDAY , SEPTEMBER 26TH

SESSION P1
09:30 - 10:30 - Room 11

09:30 - P1.1*
Electronic properties of free-standing graphene at low energies.
Daniel Cunha Elias[1]; [1]University Of Manchester

10:00 - P1.2
Hysteresis in the Resistance of a Graphene Device Induced by Charge Modulation in the Substrate
Juliana Caldeira Brant[1], Jorge Leon, Tiago Campolina Barbosa[1], Eduardo Nery Araújo[1], Braulio Soares Archanjo[2], Flávio Plentz, Elmo Salomão Alves; [1]Universidade Federal de Minas Gerais, [2]Inmetro

10:15 - P1.3
Edge-Functionalized All-Graphene Nano-Junctions
Caterina Cocchi, Deborah Prezzi, Alice Ruini, Elisa Molinari, Marília J. Caldas

SESSION P2
11:00 - 12:30 - Room 11

11:00 - P2.1*
Monolayer and Bilayer Graphene in Nanoelectronics: Ab initio Investigations
Adalberto Fazzio, Antônio José Roque da Silva, José Eduado Padilha de Souza, Matheus Paes Lima, Renato Borges Pontes, Roberto Hiroki Miwa, Tomé Mauro Schmidt

11:30 - P2.2*
Theory of double-resonant Raman spectra in graphene: intensity and line shape of defect-induced and two-phonon bands
Pedro Venezuela

12:00 - P2.3
Graphene combined scaffold for tissue engineering.
Bianca Palma Santana[1], Rogério Almeida Gouvêa[1], Fernanda Nedel, Sergio da Silva Cava, Evandro Piva, Flávio Fernando Demarco, Neftalí Lenin Villarreal Carreño; [1]Universidade Federal de Pelotas

12:15 - P2.4
Dynamics of graphene nanodrums: an atomistic molecular dynamics study
Gustavo Brunetto, Sergio Benites Legoas, Vitor Rafael Coluci, Liacir Dos Santos Lucena, Douglas Soares Galvão

SESSION P3
15:00 - 16:00 - Room 11

15:00 - P3.1*
Electronic, Magnetic and Optical Properties of Graphene-Related Systems
Rodrigo B Capaz

15:30 - P3.2*
Characterizing Graphene by Resonance Raman Scattering
Marcos Assunção Pimenta, Ariete Righi, Sara D Costa, Daniela L Mafra, Amanda O Coimbra, Leandro M Malard, Cristiano Fantini

TUESDAY , SEPTEMBER 27TH

SESSION P4
09:30 - 10:30 - Room 11

09:30 - P4.1*
Using Raman spectroscopy and Electron Microscopy as metrological tools in the study of graphene and other carbon nanostructures
Carlos Alberto Achete[1]; [1]Instituto Nacional de Metrologia, Normalização E Qualidade Industrial
10:00 - P4.2
STM observation of superstructures caused by rotation of graphene subsurface layers
Eduardo E Cisternas[1], Marcos Flores; [1]Universidad de La Frontera
10:15 - P4.3
Production of Micro and Nano Contacts for Grapheme by Scanning Near Field Optical Lithography
Mariana Pojar[1], Luis E. Gomez Armas[1], Antonio Domingues Santos[2], Antonio Carlos Seabra; [1]Polytechnic School At Universidade de São Paulo (Usp), [2]Instituto de Física

SESSION P5
11:00 - 12:30 - Room 11

11:00 - P5.1*
Modifying the electronic properties of graphene and planar boron nitride through alloying and adsorbate deposition
Hélio Chacham[1]; [1]Universidade Federal de Minas Gerais
11:30 - P5.2*
Characterization and manipulation of graphene via scanning probe microscopy techniques
Bernardo Ruegger Almeida Neves
12:00 - P5.3
Room - Temperature Compression-Induced Diamondization of Few-Layer Graphene
Ana Paula Moreira Barboza[1]; [1]Universidade Federal de Minas Gerais
12:15 - P5.4
Raman scattering investigation of nanomanipulated individual carbon nanotube serpentines
Newton Martins Barbosa Neto[1], Paulo Antonio Trindade Araújo, Jaqueline Santos Soares, Lucas Maciel Mussnich, Hélio Chacham[1], Luiz Gustavo Cancado[1], Ado Jorio; [1]Universidade Federal de Minas Gerais

WEDNESDAY, SEPTEMBER 28TH

SESSION P6
09:30 - 10:30 - Room 11

09:30 - P6.1*
Raman spectroscopy in graphene and graphite under magnetic fields
Eduardo Granado[1]; [1]Universidade Estadual de Campinas
10:00 - P6.2
Study of Junctions Between Graphene Nanoribbons
Frederico Ramos Fioravante[1], Ricardo Wagner Nunes, Hélio Chacham[1]; [1]Universidade Federal de Minas Gerais

POSTER PRESENTATIONS

TUESDAY , SEPTEMBER 27TH

SESSION SP2
14:00 - 16:00 - Exhibition Hall

SP2-P1 - Carbon and its monatomic chains, showing the graphene.
Tarcísio Santiago Gomes Filho[1,2], Kaline Muriel de Figueiredo Gomes; [1]Universidade Federal do Rio Grande do Norte, [2]Companhia do Desenvolvimento Dos Vales do São Francisco E Parnaíba
SP2-P2 - Easy deposition of ITO and Magnetite Nanoparticles on Graphene Oxide Sheets
Edney Geraldo da Silveira Firmiano[1], Cleocir José Dalmaschio, Antonio Narciso Pinheiro, Edson Roberto Leite; [1]Universidade Federal de São Carlos
SP2-P3 - DFT simulations of defective graphene nanoribbons
Vivian Machado de Menezes[1], Solange Binotto Fagan; [1]Universidade Federal de Santa Maria
SP2-P4 - Synthesis and characterization of CeO_2 - Graphene composite.
Mauro Francisco Pinheiro da Silva[1], Heloisa Cristina da Costa[1], Eduardo Rezende Triboni[2], Mário José Politi, Paulo Celso Isolani; [1]Universidade de São Paulo, [2]Institute Of Chemisty
SP2-P5 - Tuning Optical spectrum in twisted graphene bilayers by external electric fields
Julian David Correa[1], Eric Suárez, Monica Pacheco, Patricio Vargas; [1]Universidad Andrés Bello
SP2-P6 - Analysis of thermal expansion of graphite expanded with hydrogen peroxide
Luiz Gilberto Konrath Júnior[1], Gian Paganotto, Grabriela Bastos Bastos, Marco Aurelio Farias da Silva, Rogério Almeida Gouvêa[2], Sergio da Silva Cava, Ricardo Marques E Silva[2]; [1]Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais, [2]Universidade Federal de

Pelotas

SP2-P7 - Nanomaterials obtained by high pressure and high temperature processing of Aerosil R812S

Antonio López Villanueva[1], Naira Maria Balzaretti[2], João Alziro Jornada; [1]Institute Of Physics - Ufrgs, [2]Universidade Federal do Rio Grande do Sul

SP2-P8 - Study of graphene superlattice by Raman spectroscopy

Victor Carozo, Clara Muniz Almeida, Erlon Henrique Martins Ferreira, Benjamin Fragneaud, Luiz Gustavo Cancado[1], Ado Jorio, Carlos Alberto Achete[2]; [1]Universidade Federal de Minas Gerais, [2]Instituto Nacional de Metrologia, Normalização E Qualidade Industrial

SP2-P9 - Influence of substrates on the synthesis of graphene

Felipe Ferreira Lima Bitencourt[1], Ana Champi, Luis Torres Quispe[2]; [1]Fundação Universidade Federal do Abc, [2]Universidade Federal do Abc

SP2-P10 - Producing a modulating potencial on graphene using a porous anodic alumina templates as an evaporation mask

Eduardo Nery Araújo[1], Elmo Salomão Alves; [1]Universidade Federal de Minas Gerais

SP2-P11 - Graphene oxide interfacial layer and ZnO-covered TiO_2 electrodes to reduce the charge recombination in dye-sensitized solar cells

Juho Kim[1], Jong Wook Huh, Sung Ryong Kim; [1]Chungju National University

SP2-P12 - Obtaining carbon nanostructures from wood industry remains

Ananda Morais Barbosa[1], Margarete Regina Freitas Gonçalves, Sergio da Silva Cava, Neftalí Lenin Villarreal Carreño, Ricardo Marques E Silva[1]; [1]Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais

SP2-P13 - Investigation of graphene nanosheets stable suspensions, and graphene films obtained by spin coating technique

Viviane F. Soares, Paulo Sergio de Paula Herrmann[1], Alexandra Manzoli[1], Marcelo L Simões; [1]Embrapa Instrumentação

SP2-P14 - Study of nanocarbon materials suspensions by thermal lens technique

Elaine Carvalho, Lyane Costa, Daniel Maria, Clascídia A. Furtado, Indhira Oliveira Maciel[1], Maria José Valenzuella Bell, Virgílio Anjos; [1]Universidade Federal de Juiz de Fora

SP2-P15 - Study and Application of Graphite Nanosheets in Polymers

Fabio Rocha Bohns[1], Bruno Silveira Noremberg[1]; [1]Universidade Federal de Pelotas - Cdtec - Laboratório da Engenharia de Materiais

SP2-P16 - Graphene Modification with Gold Nanoparticles using the Gas aggregation technique

Luis E. Gomez Armas[1], Manuel Fernando Gonzalez, Ana Champi, Mariana Pojar[1], Antonio Carlos Seabra, Antonio Domingues Santos[2], Henrique E. Toma; [1]Polytechnic School At Universidade de São Paulo (Usp), [2]Instituto de Física

SP2-P17 - Effect of Schottky barrier on the transport properties of few layer Graphene transistors

Luis E. Gomez Armas[1], Manuel Fernando Gonzalez, Mariana Pojar[1], Antonio Carlos Seabra, Antonio Domingues Santos[2], Marcio V. Valle, Ana Champi; [1]Polytechnic School At Universidade de São Paulo (Usp), [2]Instituto de Física

SP2-P18 - Graphene Dispersion in Aqueous Solution of Deoxycholate Sodium Salt

Jefferson Patrício Nascimento[1], Mateus Lopes Angelo, João Paulo Coelho[1], Geraldo Magela Trindade[2], Fernanda Vieira, Adelina Pinheiro Santos, Clascídia A. Furtado; [1]Centro de Desenvolvimento da Tecnologia Nuclear, [2]Empresa Nacional de Grafite Ltda

SP2-P19 - The effects of reduction time on thermal conductivity of PS/Graphene composites

Sung Ryong Kim, Juho Kim[1], Jong Wook Huh; [1]Chungju National University

SP2-P20 - Study of magnetic properties of graphene and graphite nano-sheets, obtained by thermo-mechanical and micro-mechanical exfoliation

Luis Torres Quispe[1], Ana Champi; [1]Universidade Federal do Abc

SP2-P21 - Electronical properties of few layer graphene samples, using STM techniques.

Francisco José Fontelles Obelenis[1], Ana Champi; [1]Fundação Universidade Federal do Abc

SP2-P22 - Suspended Graphene on TEM Grids and Field-Emission Graphene Devices

Tiago Campolina Barbosa[1], Juliana Caldeira Brant[1], Eduardo Nery Araújo[1], Flávio Plentz, Elmo Salomão Alves; [1]Universidade Federal de Minas Gerais

SP2-P23 - The Influence of the natural graphite particle size on obtaining graphite oxide

Geraldo Magela Trindade[1], Clascídia A. Furtado, Fernanda Vieira; [1]Empresa Nacional de Grafite Ltda

SP2-P24 - A Metrological study of Graphene Annealing

Carolina Paz Garin

SP2-P25 - Characterization of hexagonal Boron Nitride layers with Electric Force Microscopy
Camilla Karla Brites Queiroz Martins Oliveira[1], Matheus Josué de Souza Matos, Mário Sérgio de Carvalho Mazzoni, Hélio Chacham[1], Bernardo Ruegger Almeida Neves; [1]Universidade Federal de Minas Gerais

SYMPOSIUM Q

Advanced Materials

POSTER PRESENTATIONS

WEDNESDAY, SEPTEMBER 28TH

SESSION SP3
16:00 - 18:00 - Exhibition Hall

SP3-Q1 - Polymer fibers as option to structures reinforcement
Tarcísio Santiago Gomes Filho[1,2], Edilberto Vitorino de Borja, Valtencir Lúcio de Lima Gomes, Kaline Muriel de Figueiredo Gomes; [1]Universidade Federal do Rio Grande do Norte, [2]Companhia do Desenvolvimento Dos Vales do São Francisco E Parnaíba

SP3-Q2 - Mechanical and morphological properties of PP/MMT nanocomposites to orange juice packaging
Gislene Zehetmeyer[1], Ricardo Vinicius Bof de Oliveira; [1]Federal University Of Rio Grande do Sul

SP3-Q3 - Effect of mixture of INITIATORS in the Bimolecular nitroxide mediated radical polymerization (NMRP) TO obtain controlled structure Polystyrene
Caroline Paganucci Dos Reis Malere, Liliane M.f. Lona

SP3-Q4 - Study of Thermal Analysis and Incorporation of 5-Fluorouracil in the Metal Organic Framework Cu- BTC-MOF
Flávia Raquel Lucena[1], Silene Carneiro do Nascimento, Severino Alves Junior; [1]Universidade Federal de Pernambuco

SP3-Q5 - Living Free Radical Polymerization in Solution for the production of Monodisperse Polystyrene
Francini Gonçalves Manzato[1], Liliane M.f. Lona; [1]Universidade Estadual de Campinas

SP3-Q6 - Utilization of kaolin and quartzite reject by manufacturing of ceramic parts
Lívia Cristina de Oliveira Felipe[1]; [1]Universidade Federal do Rio Grande do Norte

SP3-Q7 - Modeling the Kinetics of Phase Transformations Using Dilatometry Tests in Common Carbon Steel
Reinaldo Cesar[1], João Manuel Domingos de Almeida Rollo; [1]Universidade de São Paulo

SP3-Q8 - Sodium saturated brazilian clay: Synthesis and characterization of clay for removal of heavy metal
Ana Lucia Pereira de Araujo[1], Meuris Gurgel Carlos da Silva, Marcelino Luiz Gimenes, Maria Angelica Simões Dornellas de Barros; [1]Universidade Estadual de Campinas

SP3-Q9 - Characterization of solids originating from the Fenton's process
Ana Lucia Pereira de Araujo[1], Celia Regina Granhen Tavares, Eneida Sala Cossich; [1]Universidade Estadual de Campinas

SP3-Q10 - Manufacture of composite from carbonized fiber of chicken feather and polyester resin.
Débora Damasceno Belarmino, Rasiah Ladchumananandasivam, Alcione Olinto Galvão[1], Sânia Maria Belísio Andrade[1], Luciene Mendes Ribeiro; [1]Universidade Federal do Rio Grande do Norte

SP3-Q11 - Finite Element Modeling of Sandwich Structure Composite for the Passive Control of Vibration
Adriana Amaro Diacenco, Antônio Gonçalves de Lima, Edmilson Otoni Corrêa

SP3-Q12 - Polypropylene and Hydrogenated Hydrocarbon Resin Blends: Preparation, Characterization and Properties.
Marlon Wesley Maciel da Costa[1], Suel Eric Vidotti, Karine Sousa de Oliveira; [1]Universidade Federal do Abc

SP3-Q13 - Quasicrystal Geopolymer Interface
Maria Bandeira Barroso, Severino Jackson Guedes Lima, Sandro Marden Torres, Silvana Garcia Viana, Roosevelt Cristiano A Silva

SP3-Q14 - Evaluation of the material influence and performance in the preliminary design of gas turbines combustion chambers
Ary Leonídio do Carmo Assunção[1], Edson Batista da Silva, Leandro Marochio Fernandes, Romulo Bessi Freitas; [1]Instituto Tecnológico de Aeronáutica

SP3-Q15 - Study of thermal analyses in accelerated degradation tests of building system of ceramic

tiles
Elidio Angioletto, Marcio Roberto da Rocha, Fernando Pelisser, Daniel Magagnin, Jorge Henrique Piva, Mauricio Scarpato, Elcio Angioletto

SP3-Q16 - Bio-composite Development with the Incorporation of Flame Retardant
Luciene Mendes Ribeiro, Rasiah Ladchumananandasivam, Alcione Olinto Galvão[1], Débora Damasceno Belarmino, Sânia Maria Belísio Andrade[1]; [1]Universidade Federal do Rio Grande do Norte

SP3-Q17 - Study of diamond graphitization during sintering
Luciano José Oliveira, Matheus Paes Peçanha, Marcello Filgueira

SP3-Q18 - Morphological analysis of natural rubber membranes with metallic nanoparticles using wavelet transform
Alexandre Fioravante de Siqueira[1], Messias Meneguette Junior, Aldo Eloizo Job; [1]Universidade Estadual Paulista "júlio de Mesquita Filho"

SP3-Q19 - Development of geopolymers from coal bottom ash alkaline activation
Rozineide A. Antunes Boca Santa[1], Adriano Michael Bernardin, Humberto Gracher Riella, Nivaldo Cabral Kuhnen; [1]Universidade Federal de Santa Catarina

SP3-Q20 - Study of Complexation of Molybdenum in Citric Acid
Antonio Narciso Pinheiro, Cleocir José Dalmaschio, Edson Roberto Leite

SP3-Q21 - Dry to wet foams: scaling states and growth law
Ismael Fortuna[1], Gilberto Lima Thomas, Rita Maria Cunha de Almeida, François Graner; [1]Universidade Federal do Rio Grande do Sul

SP3-Q22 - Polymerization of ethylene in multiblocks with a post-metallocene catalyst mixture
Roberto de Souza Martins[1], Maria de Fátima Vieira Marques[2]; [1]Universidade Federal do Rio de Janeiro, [2]Macromolecules Institute - Federal University Of Rio de Janeiro

SP3-Q23 - Effects of incorporating waste rigid polyurethane foam in polymer compounds based on Polypropylene
Simone Fontana Pereira[1], Elias Hage Junior; [1]Universidade Federal de São Carlos

SP3-Q24 - Evaluation of the mechanical and chemical properties of the poly(ether-ether-ketone) aged in ethanol
Agmar José de Jesus Silva[1], Marysilvia Ferreira da Costa; [1]Universidade Federal do Rio de Janeiro

SP3-Q25 - Nitric Oxide release employing natural rubber biomembranes as carrier
Rondinelli Donizetti Herculano[1], Cecília Pereira Silva, Alvaro A A de Queiroz, Lee Cheen Tzu, Angela Kinoshita, Carlos Alberto Brunello, Carlos Fo Graeff; [1]Universidade Estadual Paulista "júlio de Mesquita Filho"

SP3-Q26 - Study of Photodegradation in the Eugenol Doped PVC
Evaristo Alexandre Falcão[1], Anderson Rodrigues Lima Caires, Eriton Rodrigo Botero[2], Nelson Luis de Campos Domingues, Andrelson Wellington Rinaldi, Fabio Juliano Negrão, Kelly Cristina da Silva Brabes; [1]Universidade Federal da Grande Dourados, [2]Fundação Universidade Federal da Grande Dourados

SP3-Q27 - Fibers Coated polypyrrole nanostructures for Solid Phase Microextraction
Éverton Fabian Jasinski[1], Giulina Nardini, Eduardo Carasek, Maria Luisa Sartorelli[1], Israel Dos Santos; [1]Universidade Federal de Santa Catarina

SP3-Q28 - Leaching welding flow of slag aiming to recovery of aluminum and titanium
Poliana Santos Souza, Raquel Annoni, Marcelo Borges Mansur

SP3-Q29 - Study of the cytotoxicity the new materials type: Ln(ß-diketone)$_3$.L
Uine Lima Oliveira, Jorge Fernando Silva de Menezes, Severino Alves Junior

SP3-Q30 - Characterization of biocomposite reinforced with chicken feathers (KF) is polyester resin.
Alcione Olinto Galvão[1], Rasiah Ladchumananandasivam, Débora Damasceno Belarmino, Sânia Maria Belísio Andrade[1], Luciene Mendes Ribeiro; [1]Universidade Federal do Rio Grande do Norte

SP3-Q31 - Study of Influence of Addition of Nucleating Agent on Mechanical Strength of Polyethylene Film of Linear Low Density
Palova Santos Balzer[1], Ricardo Fischer Brandenburg; [1]Pontifícia Universidade Católica de Minas Gerais

SP3-Q32 - Titania Doping Effect on Phase Stabilization of ZrO_2Tetragonal Obtained by the Polymer Precursors Method
Lucianna Gama, Maria Aparecida Ribeiro[1], Laédna Souto Neiva[2], Aluska Nascimento Simoes, Ruth Herta Kiminami, Joao Bosco Lucena Oliveira; [1]Federal University Of Campina Grande, [2]Universidade

Federal de Campina Grande

SP3-Q33 - Water absorption of PP/sisal/organobentonite hybrid composites

Sueila Silva Araújo, Eduardo Luis Canedo, Suédina Maria Lima Silva, Laura Carvalho

SP3-Q34 - Characterization of Nanostructured Ag & Si Solid Emulsion

Guillermo Van Erven Cabala[1], Wilson Acchar; [1]Instituto Federal de Educação, Ciência E Tecnologia da Bahia

SP3-Q35 - Performance of zeolites as catalysts for pyrolysis of plastic waste

Débora Duarte Almeida, Maria de Fátima Vieira Marques[1]; [1]Macromolecules Institute - Federal University Of Rio de Janeiro

SP3-Q36 - Study of thermal properties of PP/EPDM nanocomposites compatibilized with organoclay

Kaline Rosário Morais Ferreira[1], Daniella L. A. C. S Andrade, Sueila Silva Araújo, Edson Pereira Quintans, Laura Hecker de Carvalho, Suédina Maria Lima Silva; [1]Universidade Federal de Campina Grande

SP3-Q37 - The study of pre-and post firing properties of mixtures of clay in the region of boa saude and itajá obtaining ceramic bricks to fit

Renata Ferreira Sousa, Gilson Gracia Silva, Rosane Alburquerque, Deusivan Soares Leite, Umdelino Gomes

SP3-Q38 - Attack of Copper by Sulfur in Microelectronics

Rodrigo de Paiva Floro Bonfim, Marta Cristina Nunes Amorim Carvalho, Leila Maria Oliveira Coelho Merat, Marcos Anacleto da Silva, Carlos Andre de Castro Perez, Vera Maria Martins Salim, Sidnei Joaquim

SP3-Q39 - Oil and Heat: Mechanical Behaviour in Composite Polymeric

Ricardo Alex Dantas Cunha, Jayna Dionisio Santos, Renata Santos Felipe, Raimundo Nonato Felipe, Maria Rosimar Sousa

SP3-Q40 - Simulation of microchannel modified by deposition thin film used for separation molybdenum particles

Lilian Marques Silva[1], Karin Simas Villaça, Eik Tenório[2], Jose Eduardo Manzoli; [1]Universidade Paulista, [2]Faculdade de Tecnologia de Tatuí

SP3-Q41 - Simulation of microchannel used for retention iodine particles

Eik Tenório[1], Ana Karla Santos E Silva, Lilian Marques Silva[2], Volney Mattos de Oliveira; [1]Faculdade de Tecnologia de Tatuí, [2]Universidade Paulista

SP3-Q42 - The influence of precipitates in the strength alloy Al 2%Cu manufactured in sand mold

Gilcimar Pereira, Elielson Alves Dos Santos, Christier Franco Ribeiro, Jose Nazareno Silva Silva, Evaldo Júlio Ferreira Soares[1]; [1]Federal Institute Of Education, Science And Technology Of Pará

SP3-Q43 - Production of PMMA nanocomposites using a LHS

Paula Forte M. P. B. Machado, Rafael Marangoni, Fernando Wypych, Liliane M.f. Lona

SP3-Q44 - Characterization and application of the new composite conductor material based on TiO_2/Sb_2O_5 dispersed on cellulose acetate

Elisângela Pires Bueno[1], Andrea Anilda Hoffmann da Rocha, Silvio Luis Pereira Dias, Jacqueline Arguello da Silva, Lauro Tatsuo Kubota; [1]Universidade Federal do Rio Grande do Sul

SP3-Q45 - Development, Characterization and Properties of EVA/hydrocarbon resin blends

Karine Sousa de Oliveira, Suel Eric Vidotti, Marlon Wesley Maciel da Costa[1]; [1]Universidade Federal do Abc

SP3-Q46 - Investigating the Chemical Composition of Viagra® and Cialis® Packaging (Authentic and Counterfeit) by Fourier Transform Infrared Spectroscopy (FTIR) and Thermal Analysis (TG/DTA)

Josué Alves de Queiróz Júnior[1], Eloilson Domingos, Geovane Lopes de Sena, Eustáquio Vinicius Ribeiro de Castro, Rafael Ortiz, Paulo Eduardo Mayorga Borges, Wanderson Romão; [1]Universidade Federal do Espírito Santo

SP3-Q47 - Potassium Diclofenac release using natural rubber from Hancornia speciosa membranes as matrix

Ricardo Sbeghen Schmidt[1], Regildo Márcio Gonçalves, Rondinelli Donizetti Herculano[2]; [1]Unesp - Faculdade de Ciências E Letras de Assis, [2]Universidade Estadual Paulista "júlio de Mesquita Filho"

SP3-Q48 - Model for elastic sheetsamazonian with hydrophobic properties in contact with the tip of afm

Henrique Duarte da Fonseca Filho[1], Elisa Baggio Saitovitch, Erveton Pinheiro, Robert Zamora; [1]Universidade Federal do Amapá

SP3-Q49 - Functionalization of boron nitride nanotubes with glycol-chitosan for biodistribution studies.

Tiago Hilário Ferreira[1], Daniel Cristian Ferreira Soares, Edésia Martins Barros de Sousa[1]; [1]Centro de Desenvolvimento da Tecnologia Nuclear

SP3-Q50 - Coffee husk as a pore forming agent in manufacturing ceramic foams

Edna Viviana Pulido, Jairo Arturo Escobar

SP3-Q51 - Morphological study of polyaniline films for the development of disposable organic sensors

Leandra Carla Aparecida Cordeiro, Silmar Antonio Travain

SP3-Q52 - Curaua Fibers as Reinforcement in Composites of High Impact Polypropylene

Maria de Fátima Vieira Marques[1], Suellem Barbosa Cordeiro, Roane Fantti Davilla, Roberto de Souza Martins[2]; [1]Macromolecules Institute - Federal University Of Rio de Janeiro, [2]Universidade Federal do Rio de Janeiro

SP3-Q53 - Shear bond strength of composite resins to bonding orthodontic metal brackets to dental enamel

Rafael Menezes Silva[1], Lucas Rocha Dumont, Vitor César Dumont[1], Jussara de Fátima Barbosa Fonseca, Conceição Eunice Canuto, Maria Helena Santos; [1]Universidade Federal Dos Vales do Jequitinhonha E Mucuri

SP3-Q54 - Shear strength of laminated glued bamboo

Julia Carolina Fideles, Priscila Sicari, Claudia Nogueira, José Nivaldo Garcia

SP3-Q55 - Aerosol Synthesis of Calcium Phosphate Nanoparticles for Applications in Medicine

Renato P. Camata, Parimal V. Bapat

SP3-Q56 - Formation of piromorphite in contamined soils with pb and reuse of soil.

Nair Rodrigues Souza[1], Keizo Yukimitu[2]; [1]Faculdade de Engenharia de Ilha Solteira, [2]Universidade Estadual Paulista - Campus Ilha Solteira

SP3-Q57 - Synthesis and thermogravimetry study of amine diphenyl-4-sulfonate terbium iii [$tb_2(das)_6.2h_2o$] for producton dioxissulfate terbium iii, application in luminescent materials.

Rodrigo Vieira Rodrigues[1], Luiz Carlos Machado, Antonio Augusto Lopes Marins, Emanuel Jose Bassani Muri, Jivaldo Rosário Matos; [1]Universidade Federal do Espírito Santo

SP3-Q58 - Investigation of contact angle and physical properties of the polyaniline (*in-situ* and interfacial polymerization) coated silicon, with potential application as sensitive layer.

Clarice Steffens[1], Alexandra Manzoli[1], Luiz Alberto Colnago, Paulo Sergio de Paula Herrmann[1]; [1]Embrapa Instrumentação

SP3-Q59 - Study of physical and mechanical properties of non-woven aromatic polyimide subjected to thermal action.

Luciano Peske Ceron[1], Sandra Einloft, Rosane Angélica Ligabue; [1]Pontifícia Universidade Católica do Rio Grande do Sul

AUTHOR INDEX

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