

ICOOPMA2018

8th International Conference on Optical, Optoelectronic
and Photonic Materials and Applications

August 26-31
Mareias-SP, Brazil

Program Book

FOREWORD

Welcome to the 8th International Conference on Optical, Optoelectronic and Photonic Materials and Applications (ICOOPMA2018).

ICOOPMA is a non-profit conference that is run by scientists for scientists without any institutional constraints and restrictions. It is an international conference series on optical, optoelectronic and photonic materials for a wide range of applications from telecommunications to photovoltaics, and optical, optoelectronic and electro-optic properties of all classes of materials and material systems. The previous seven ICOOPMA conferences were held in Darwin, Australia (2006), London, UK (2007), Edmonton, Canada (2008), Budapest, Hungary (2010), Nara, Japan (2012), Leeds, UK (2014) and Montréal, Canada (2016).

We are delighted to have you for this meeting at Beach Hotel Maresias, in Maresias-SP, one of the most beautiful beaches of the São Paulo State coast, located at ~180kms from São Paulo International Airport.

The 2018 ICOOPMA edition will run from Sunday (August 26) night until Friday (August 31). An exciting scientific program will be covered by 203 contributions. The scientific program includes 8 plenary lectures, 37 invited lectures, 51 oral presentations and 107 poster presentations. Two poster sessions that will be held on Monday (August 27) and Tuesday (August 28) designed to encourage interaction among participants.

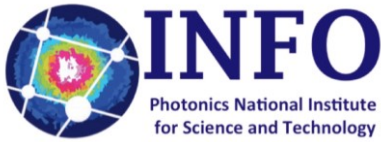
We offer special thanks to the São Paulo State University- UNESP, the Local Organizing Committee, the Advisory Board and the many on-site assistants for their tireless efforts in preparing this world-class event.

We hope you will enjoy Maresias and our country and you experience a valuable and memorable meeting.

On behalf of the Organizing Committee

Sidney J.L. Ribeiro, Marcelo Nalin, Rogéria R. Gonçalves Hernane Barud and Anderson Gomes.

SUPPORT



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PROGRAM SCHEDULE

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Sunday
August, 2018

17:00 - 19:00	Registration
19:00 - 21:00	Welcome cocktail

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Monday
August, 2018

08:45 - 09:00	Opening session
09:00 - 09:40	Plenary session Exploring new Optical fibers for prevention and sensing in Medicine Younes Messaddeq, University Laval, Canada.
09:40 - 10:20	Plenary session Modelling the luminescence due to 4f – 4f transitions in rare earth based materials: recent advances Oscar Loureiro Malta, Universidade Federal de Pernambuco, Brazil.
10:20 - 10:50	Coffee Break
10:50 - 12:50	Invited Lectures: G, K, Q, T
12:50 - 14:20	Lunch
14:20 - 16:20	Invited Lectures: G, K, Q
16:20 - 16:50	Coffee Break
16:50 - 18:30	Oral Sessions: B, G, K, L, O, Q, T
19:00 - 21:00	1 st Poster Session: A, B, C, D, E, G, H, I, K, N, O, P, Q, R, T

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Tuesday
August, 2018

07:00	Registration
09:00 - 09:40	Plenary session Nonlinearity management of metal-dielectric nanocomposites and nanostructures Cid B. de Araújo, Universidade Federal de Pernambuco, Brazil.

09:40 - 10:20	Plenary session Nanoparticles for enhanced cardiovascular imaging Jose Antonio Garcia-Sole, Universidad Autónoma de Madrid, Spain.
10:20 - 10:50	Coffee Break
10:50 - 12:50	Invited Lectures: B, F, G, H, N, O, Q
12:50 - 14:20	Lunch
14:20 - 16:20	Invited Lectures: B, G, H, I, K, Q, T
16:20 - 16:50	Coffee Break
16:50 - 18:30	Oral Sessions: G, H, I, N, O, Q, T
19:00 - 21:00	2 nd Poster Session: B, D, E, G, H, I, K, M, O, P, Q, R, T

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Wednesday
August, 2018

07:00	Registration
09:00 - 09:40	Plenary session Highly efficient and stable hybrid solar cells of nanostructures and bulk heterojunction semiconductors Jai Singh, Charles Darwin University, Australia.
09:40 - 10:20	Plenary session Shedding light on luminescent nanothermometry Luis Dias Carlos, University of Aveiro, Portugal.
10:20 - 10:50	Coffee Break
10:50 - 12:30	Oral Sessions: C, D, G, H, I, K, R, U
19:00 - 22:00	Conference banquet

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Thursday
August, 2018

07:00	Registration
09:00 - 09:40	Plenary session Near-Infrared persistent luminescence: the quest for traps Dirk Poelman, Ghent University, Belgium.
09:40 - 10:20	Plenary session Advances in the development of III-V semiconductors for photonic applications Stephen J. Sweeney, University of Surrey, UK.
10:20 - 10:50	Coffee Break
10:50 - 12:50	Invited Lectures: G, I, Q
12:50 - 14:20	Lunch
14:20 - 16:20	Oral Sessions: C, D, G, N, O, Q
16:20 - 16:50	Coffee Break
16:50 - 18:30	Oral Sessions: A, B, D, G, M, N, O, V

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Friday
August, 2018

10:00 - 11:00 Closing session

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ORAL PRESENTATIONS

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SESSION INV3-B 10:50 - 12:50 - Camburi Room

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SESSION INV4-A 14:20 - 16:20 - Room Maresias

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SESSION S3 09:00 - 10:20 - Room Maresias

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THURSDAY , AUGUST 30

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SESSION S4 09:00 - 10:20 - Room Maresias

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SESSION INV5-B 10:50 - 12:50 - Camburi Room

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SESSION ORAL5B 16:50 - 18:30 - Camburi Room

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MONDAY, AUGUST 27

SESSION S1

09:00 - 10:20 - Room Maresias

09:00 S1.1 (Plenary Lecture)**Exploring new Optical fibers for prevention and sensing in Medicine**Younes Messaddeq¹; ¹Université Laval**09:40 S1.2 (Plenary Lecture)****Modelling the luminescence due to 4f – 4f transitions in rare earth based materials: recent advances**Oscar Loureiro Malta¹; ¹Universidade Federal de Pernambuco

SESSION INV1-A

10:50 - 12:50 - Room Maresias

10:50 INV1-A.1 (Invited Lecture)**Samarium-based Radio-photoluminescence Materials and Applications for Microbeam Radiation Therapy**Go Okada¹, Jumpei Ueda², Setsuhisa Tanabe², Farley Chicilo³, George Belev³, Cyril Koughia³, Tomasz Wysokinski⁴, Dean Chapman⁴, Takayuki Yanagida¹, Andy Edgar⁵, Safa Kasap³; ¹Nara Institute of Science & Technology, ²Kyoto University, ³University of Saskatchewan, ⁴Canadian Light Source, ⁵Victoria University of Wellington**11:20 INV1-A.2 (Invited Lecture)****Assessment of 4H-SiC epitaxial layers and high resistivity bulk crystals for radiation detectors**Krishna C. Mandal¹, Joshua W. Kleppinger¹, Yuriy V. Pershin¹, Towhid A. Chowdhury¹, Mohsin Sajjad¹; ¹University of South Carolina

11:50 INV1-A.3 (Invited Lecture)

Photoluminescence spectroscopy study of excited-state structures of thermally activated delayed-fluorescence emitters

Hiroyoshi Naito¹, Takashi Kobayashi¹, Kenichi Goushi², Chihaya Adachi²; ¹Osaka Prefecture University, ²Kyushu University

12:20 INV1-A.4 (Invited Lecture)

Structure-Property Relationship of the X-Ray Storage Phosphor CsBr:Eu²⁺

Elmar Kersting¹, Heinz von Seggern¹; ¹Technische Universität Darmstadt

SESSION INV1-B

10:50 - 12:50 - Camburi Room

10:50 INV1-B.1 (Invited Lecture)

Rare Earth Activated Glasses: Exploratory Investigation Toward New Scintillators

Luiz G Jacobsohn¹, Ugur Akgun²; ¹Clemson University, ²Coe College

11:20 INV1-B.2 (Invited Lecture)

On the Role of Graphene in Ultrafast Fiber Lasers

Hugo Luis Fragnito¹; ¹Universidade Presbiteriana Mackenzie

11:50 INV1-B.3 (Invited Lecture)

The ultimate performance of ultralong optical fibre Bragg gratings

Raman Kashyap¹; ¹Polytechnique Montreal

12:20 INV1-B.4 (Invited Lecture)

Femtosecond fiber Bragg gratings for the development of innovative sensors and lasers

Martin Bernier¹; ¹Université Laval

SESSION INV2-A

14:20 - 16:20 - Room Maresias

14:20 INV2-A.1 (Invited Lecture)**Organic devices for near-infrared emission and up-conversion**

Marco Cremona¹, Rian Esteves Aderne¹, Zubair Ahmed¹, Cristiano Legnani², Sandra Jenatsch³, Roland Hany³, Frank Nüesch³; ¹Pontifícia Universidade Católica do Rio de Janeiro, ²Universidade Federal de Juiz de Fora, ³Swiss Federal Laboratories for Materials Science and Technology

14:50 INV2-A.2 (Invited Lecture)**Tin(II)2,3-naphthalocyanine molecule used as near-infrared sensitive layer in Organic Up-Conversion Devices**

Cristiano Legnani¹, Welber Gianini Quirino¹, Mônica Cristina Melquiades¹, Marco Cremona², Rian Esteves Aderne²; ¹Universidade Federal de Juiz de Fora, ²Pontifícia Universidade Católica do Rio de Janeiro

15:20 INV2-A.3 (Invited Lecture)**Synthesis of luminescent rare earth materials as light converting devices**

Hermi Felinto Brito¹, Oscar Loureiro Malta², Maria Claudia França da Cunha Felinto³, Ercules Teotonio⁴; ¹Universidade de São Paulo, ²Universidade Federal de Pernambuco, ³Instituto de Pesquisas Energéticas e Nucleares, ⁴Universidade Federal da Paraíba

15:50 INV2-A.4 (Invited Lecture)**Efficient luminescent colloidal nitride semiconductor nanocrystals**

Richard Curry¹; ¹Photon Science Institute, University of Manchester

SESSION INV2-B

14:20 - 16:20 - Camburi Room

14:20 INV2-B.1 (Invited Lecture)**Twenty-five years of optically stimulated research of artificial materials: a personal perspective**

Eduardo G. Yukihara^{1,2}; ¹Oklahoma State University, ²Paul Scherrer Institute

14:50 INV2-B.2 (Invited Lecture)**Optical properties of rare-earth-doped amorphous chalcogenides**

Tomas Wagner¹, Lukas Strizik¹, Vit Prokop¹, Jan Hrabovsky¹, Veronika Mouckova¹, Takeshi Aoki², Cyril Koughia³, Safa Kasap³; ¹University of Pardubice, ²Tokyo Polytechnic University, ³University of Saskatchewan

15:20 INV2-B.3 (Invited Lecture)**Direct Measurements of Energy Levels in Next Generation Nitride Phosphors**

Alexander Moewes¹; ¹University of Saskatchewan

15:50 INV2-B.4 (Invited Lecture)**Second order non linear optical properties induced by thermal poling in microstructured tantalum germanate glasses and glass-ceramics**

Gael Yves Poirier¹, Marc Dussauze², Vincent Rodriguez², Thierry Cardinal², Evelyne Fargin²; ¹Universidade Federal de Alfenas, ²Université de Bordeaux

SESSION ORAL1A**16:50 - 18:30 - Room Maresias****16:50 ORAL1A.1 Photovoltaic Materials****Anomalous Capacitive Features of Perovskite Solar Cells**

Osbel Almora Rodríguez¹, Gebhard J. Matt¹, Germà Garcia-Belmonte², Christoph J. Brabec¹; ¹Friedrich-Alexander-Universität Erlangen-Nürnberg, ²Universitat Jaume I

17:10 ORAL1A.2 Photonic materials and devices**Femtosecond laser fabrication of cladding waveguides in aminoacid crystal for second harmonic generation**

Gustavo Foresto B. Almeida¹, Renato Juliano Martins¹, Jonathas Paula Siqueira¹, Juliana M. P. Almeida¹, José Joatan Rodrigues Jr.², Cleber R. Mendonça¹; ¹Universidade de São Paulo, ²Universidade Federal de Sergipe

17:30 **ORAL1A.3** Photovoltaic Materials**Bimolecular Recombination in Organic Bulk-Heterojunction Solar Cells**

Roberto Mendonça Faria¹, Daniel Roger Amorim¹, Francineide Araujo¹, Douglas José Coutinho²; ¹Universidade de São Paulo, ²Universidade Tecnológica Federal do Paraná

17:50 **ORAL1A.4** Non-oxide glasses Plasmonics**Periodic pattern in Laser induced forward transfer of chalcogenide glass**

Juliana M. P. Almeida¹, Kelly Tasso Paula¹, Craig Arnold², Cleber R. Mendonça¹; ¹Universidade de São Paulo, ²Princeton University

18:10 **ORAL1A.5** Non-linear effects**Zinc selenide optical nonlinearities measured by nonlinear ellipse rotation**

Emerson Cristiano Barbano¹, Tiago Gualberto Bezerra de Souza¹, Lino Misoguti¹; ¹Universidade de São Paulo

SESSION ORAL1B**16:50 - 18:30 - Camburi Room****16:50** **ORAL1B.1** Luminescent materials**Direct femtosecond laser printing of silk fibroin microstructures.**

Molíria Vieira dos Santos¹, Kelly Tasso Paula¹, Sidney J.L. Ribeiro², Cleber R. Mendonça¹; ¹Universidade de São Paulo, ²Universidade Estadual Paulista Júlio de Mesquita Filho

17:10 **ORAL1B.2** Photonic materials and devices**Chalcogenide microstructured optical fibers for Mid-IR Quantum Cascade Laser pigtailling**

Johann Troles¹, Celine Caillaud^{1,2}, Laurent Brilland², Sebastien Venck², Jean-Luc Adam¹, Maxime Duris^{1,3}, Damien Deubel³, Loic Bodiou¹, Joel Charrier¹, Mathieu Carras Carras⁴, Mickael Brun⁴; ¹University of Rennes 1, ²SelenOptics, ³Kerdry, ⁴Mirsense

17:30 **ORAL1B.3** Semiconductors for optoelectronics**Novel organic semiconductors and their use in ultrafast photo-switching and near-infrared phototransistors**Jesse Thomas Ernest Quinn^{1,2}; ¹Universidade de São Paulo, ²University of Waterloo**17:50** **ORAL1B.4** Luminescent materials**Excitonic luminescence of new mixed-anion compounds**Yuki Iwasa¹, Hiraku Ogino¹, Dongjoon Song¹, Kohei Yamanoi², Toshihiko Shimizu², Jumpei Ueda³, Setsumi Tanabe³, Nobuhiko Sarukura²; ¹National Institute of Advanced Industrial Science and Technology, ²Osaka University, ³Kyoto University**18:10** **ORAL1B.5** Semiconductors for optoelectronics**Large Area Cd_{0.9}Zn_{0.1}Te Pixelated Detector: Fabrication and Characterization**Mohsin Sajjad¹, Joshua W. Kleppinger¹, Towhid A. Chowdhury¹, Krishna C. Mandal¹; ¹University of South Carolina**TUESDAY , AUGUST 28****SESSION S2****09:00 - 10:20 - Room Maresias****09:00** **S2.1 (Plenary Lecture)****Nonlinearity management of metal-dielectric nanocomposites and nanostructures**Cid B. de Araújo¹; ¹Universidade Federal de Pernambuco**09:40** **S2.2 (Plenary Lecture)****Nanoparticles for enhanced cardiovascular imaging**Jie Hu¹, Francisco Sanz Rodriguez¹, Fernando Rivero¹, Dirk Ortgies¹, Rio Aguilar Torres¹, Emma Martín Rodriguez¹, Fernando Alfonso², Daniel Jaque¹, Jose Antonio Garcia-Sole¹; ¹Universidad Autónoma de Madrid, ²Instituto Ramón y Cajal

SESSION INV3-A

10:50 - 12:50 - Room Maresias

10:50 INV3-A.1 (Invited Lecture)

Recent advances in femtosecond laser writing of mid-infrared waveguides in chalcogenide glasses

David Le Coq¹, Pascal Masselin²; ¹University of Rennes 1, ²University of Littoral Côte d'Opale

11:20 INV3-A.2 (Invited Lecture)

New composites with Potential Random Laser Application

Caroline Cássia Alves¹, Sidney J.L. Ribeiro², Cleber R. Mendonça¹, Leonardo De Boni¹, José Maurício Almeida Caiut¹; ¹Universidade de São Paulo, ²Universidade Estadual Paulista Júlio de Mesquita Filho

11:50 INV3-A.3 (Invited Lecture)

High intensity femtosecond lasers at IPEN: tools for modification and characterization of materials

Ricardo Elgul Samad¹, Edison Puig Maldonado¹, Lilia Coronato Courrol², Wagner de Rossi¹, Denise Maria Zezell¹, Sonia Licia Baldochi¹, Nilson Dias Vieira Junior¹; ¹Instituto de Pesquisas Energéticas e Nucleares, ²Universidade Federal de São Paulo

12:20 INV3-A.4 (Invited Lecture)

Synthesis of aminolevulinic acid with metal nanoparticles for Non-communicable diseases diagnosis and therapy

Lilia Coronato Courrol¹, Karina de Oliveira Gonçalves¹, Daniel Perez Vieira²; ¹Universidade Federal de São Paulo, ²Instituto de Pesquisas Energéticas e Nucleares

SESSION INV3-B

10:50 - 12:50 - Camburi Room

10:50 INV3-B.1 (Invited Lecture)**Materials for the Optimization of Solar Energy Harvesting**Carlos FO Graeff¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho**11:20 INV3-B.2 (Invited Lecture)****Carbon-based nanostructures in nanoporous films: materials design for optical applications**Luca Malfatti^{1,2}; ¹Department of Chemistry and Pharmacy, ²University of Sassari**11:50 INV3-B.3 (Invited Lecture)****Towards Optically Controlled Quantum Bits in Rare Earth Doped Nanoparticles**Diana Serrano¹, Jenny Karlsson¹, Alexandre Fossati¹, Alban Ferrier¹, Philippe Goldner¹; ¹Chimie ParisTech**12:20 INV3-B.4 (Invited Lecture)****Morphological Engineering of Bio-Minerals Using Near-IR Mode-locked Lasers – a new approach for integrative manufacturing of hard-soft tissues for in-theatre use!**Animesh Jha¹, Christian Thomas Brown², Monty S Duggal³, Antonios D Anastasiou¹; ¹University of Leeds, ²University of St. Andrews, ³National University of Singapore

SESSION INV4-A

14:20 - 16:20 - Room Maresias

14:20 INV4-A.1 (Invited Lecture)**Second Harmonic Scattering: from liquids to interfaces and bulk materials**Vincent Rodriguez¹; ¹University of Bordeaux

14:50 INV4-A.2 (Invited Lecture)**Recent developments in Mid-Infrared Fiber Lasers**

Réal Vallée¹; ¹Université Laval

15:20 INV4-A.3 (Invited Lecture)**Innovative Chemical Sensors Based on Optical Polymers**

Robert Lieberman¹; ¹Lumoptix LLC

15:50 INV4-A.4 (Invited Lecture)**Semiconductor nanowires for 3D nano-LEDs and hybrid optoelectronic devices**

Tobias Voss¹; ¹Technische Universität Braunschweig

SESSION INV4-B**14:20 - 16:20 - Camburi Room****14:20 INV4-B.1 (Invited Lecture)****Exciting host-guest luminescent materials for photonic and biophotonic applications**

Andrea Simone Stucchi de Camargo¹; ¹Instituto de Física de São Carlos

14:50 INV4-B.2 (Invited Lecture)**Nanoporous Anodic Alumina: a versatile material for biomedical applications**

Lluís F. Marsal¹, Elisabet Xifre-Perez¹, Laura Karen Acosta¹, Laura Pol¹, Josep Ferre-Borrull¹; ¹Universitat Rovira i Virgili

15:20 INV4-B.3 (Invited Lecture)**Nanophotonic structures for enhanced light-sound interaction**

Gustavo S Wiederhecker¹; ¹Universidade Estadual de Campinas

15:50 INV4-B.4 (Invited Lecture)**Rare Earth Smart Nanomaterials And Their Biological Application**

Maria Claudia França da Cunha Felinto¹, Hermi Felinto Brito², Ercules Teotonio³, Oscar Loureiro Malta⁴; ¹Instituto de Pesquisas Energéticas e Nucleares, ²Universidade de São Paulo, ³Universidade Federal da Paraíba, ⁴Universidade Federal de Pernambuco

SESSION ORAL2A**16:50 - 18:30 - Room Maresias****16:50 ORAL2A.1 Photovoltaic Materials****Critical analysis of the performance of $\text{In}_x\text{Ga}_{1-x}\text{N}$ based solar cells**

Carlos Hernández-Gutiérrez¹, Arturo Morales-Acevedo¹, Dagoberto Cardona², Gerardo Contreras-Puente³, Máximo López-López¹; ¹CINVESTAV, ²ITESO Universidad Jesuita de Guadalajara, ³Instituto Politécnico Nacional

17:10 ORAL2A.2 Semiconductors for optoelectronics**Prediction of electrical response of solution-processed thin-film transistors using multifactorial analysis**

João Paulo Braga¹, Lucas Augusto Moises¹, Giovani Gozzi¹, Lucas Fugikawa Santos¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

17:30 ORAL2A.3 Luminescent materials**Highly luminescent microstructures tailored by direct laser writing (DLW) technique in Ag nanoclusters doped fluorophosphate glass: application in 3D waveguide and second harmonic generation (SHG)**

Tarcio Castro Silva¹, Alain Abou Khalil², Hssen Fares¹, Jean-Charles Desmoulin², Sophie Rouzet², Clement Strutynski², Yannick Petit², Sylvain Danto², Véronique Jubera², Lionel Canioni², Marcelo Nalin¹, Sidney J.L. Ribeiro¹, Thierry Cardinal²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Institute de Chimie de la Matière Condensée de Bordeaux

17:50 **ORAL2A.4** Nanostructures including photonic crystals**Broad-spectrum UV-to-NIR-active photocatalyst based on semiconductors and lanthanides-doped upconversion crystals**

Sajjad Ullah¹, Chanchal Hazra¹, Elias Paiva Ferreira Neto², Ubirajara Pereira Rodrigues-Filho², Sidney J.L. Ribeiro¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade de São Paulo

18:10 **ORAL2A.5** Photonic materials and devices**Random Laser emission from Rhodamine B-doped disordered fibers network**

Lucas Fiocco Sciuti¹, Nathália Tomazio¹, Cleber R. Mendonça¹, Luíza Mercante², Daniel Souza Corrêa², Leonardo De Boni¹; ¹Universidade de São Paulo, ²Nanotechnology National Laboratory for Agriculture

SESSION ORAL2B
16:50 - 18:30 - Camburi Room**16:50** **ORAL2B.1** Nanophotonics**A study of optical power induced spectral shift in Si photonics**

Stefan Tenenbaum¹, Roberto Ricardo Panepucci¹; ¹Centro de Tecnologia da Informação Renato Archer

17:10 **ORAL2B.2** Photonic materials and devices**X-ray Induced Sm-Valence Conversion in Fluoroaluminate Glasses as a Tool for Investigating Dose Distributions in Microbeam Radiation Therapy**

Farley Chicilo¹, Go Okada², Cyril Koughia¹, George Belev¹, Tomasz Wysokinski³, Dean Chapman³, Andy Edgar⁴, Fred Geisler¹, Albert Hanson¹, Safa Kasap¹; ¹University of Saskatchewan, ²Nara Institute of Science & Technology, ³Canadian Light Source, ⁴Victoria University of Wellington

17:30 ORAL2B.3 Non-linear effects**Molecular second order process with optical polarization control: effect of chirality in the Hyper-Rayleigh scattering**

Raian G Westin¹, Ruben Fonseca Rodriguez², Marcelo G. Vivas³, Cleber R. Mendonça⁴, Leonardo De Boni⁴; ¹Instituto de Física de São Carlos, ²Departamento de Ciências Básicas, Universidad de la Costa, ³Universidade Federal de Alfenas, ⁴Universidade de São Paulo

17:50 ORAL2B.4 Photonic materials and devices**Rare-earth Yb³⁺-doped MoS₂ grown using femtosecond pulsed laser deposition for photonics applications**

Chiranjeevi Maddi¹, Aparna P², Adarsh KV², Animesh Jha¹; ¹University of Leeds, ²Indian Institute of Science Education and Research

18:10 ORAL2B.5 Photoinduced effects**Luminescence of rare earth doping and interface related electrical transport properties of SnO₂ thin films based heterostructures**

Luis Vicente de Andrade Scalvi¹, Cristina de Freitas Bueno¹, Diego Henrique Machado Olliveira¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

WEDNESDAY, AUGUST 29**SESSION S3****09:00 - 10:20 - Room Maresias****09:00 S3.1 (Plenary Lecture)****Highly efficient and stable hybrid solar cells of nanostructures and bulk heterojunction semiconductors**

Kiran Sridhar Ram¹, Jai Singh¹; ¹Charles Darwin University

09:40 S3.2 (Plenary Lecture)**Shedding light on luminescent nanothermometry**

Luis Dias Carlos¹; ¹University of Aveiro

SESSION ORAL3A

10:50 - 12:30 - Room Maresias

10:50 ORAL3A.1 Luminescent materials

X-ray induced persistent luminescence: How and why?

Lucas Carvalho Veloso Rodrigues¹, Danilo Ormeni Almeida Santos¹, Miguel Aguirre Stock Grein Barbará¹, Douglas Lourenço Fritzen¹, Veronica de Carvalho Teixeira²; ¹Universidade de São Paulo, ²Centro Nacional de Pesquisa em Energia e Materiais

11:10 ORAL3A.2 Quantum dots

Green Aqueous Synthesis of Fluorescent Ag-In-Zn-S Quantum Dot/Biopolymer Nanomaterials for Potential Applications in Solar Energy Harvesting

Herman Sander Mansur¹, Camila Tabare¹, Alexandra A. P. Mansur¹; ¹Universidade Federal de Minas Gerais

11:30 ORAL3A.3 Nanophotonics

Multicolour Emissions through Bi-directional Energy Transfer in Nd³⁺-Sensitized Gd³⁺-based Core/Shell/Shell Upconverting Nanoparticles

Chanchal Hazra¹, York Estewin Serge Corrales¹, Sajjad Ullah¹, Lais Roncalho Lima¹, Sidney J.L. Ribeiro¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

11:50 ORAL3A.4 Silicon photonics

Rare-earth doped chalcogenide thin film on SOI plat form for Mid-IR integrated silicon photonic applications

Mehrdad Irannejad¹, Sandra Helena Messaddeq¹, Mohammed El Amraoui¹, Philippe Jean¹, Wei Shi¹, Younes Messaddeq¹; ¹Université Laval

12:10 ORAL3A.5 Nanostructures including photonic crystals

Compact switchable power divider based on 2D photonic crystal with chalcogenide Ge₂Sb₂Te₅ resonator

Daimam Darlam Zimmer¹, Victor Dmitriev¹, Wagner Ormanes Palheta Castro¹; ¹Universidade Federal do Pará

SESSION ORAL3B

10:50 - 12:50 - Camburi Room

10:50 ORAL3B.1 Nanostructures including photonic crystals**Controllable graphene W-shaped three-port THz circulator**Wagner Ormanes Palheta Castro¹, Victor Dmitriev¹, Geraldo Melo¹, Daimam Darlam Zimmer¹, Cristiano Braga¹; ¹Universidade Federal do Pará**11:10 ORAL3B.2** Energy conversion in Rare Earths doped materials**Optical and dielectric properties of Nd and Sm-doped Bi₅Ti₃FeO₁₅ phases**Jeferson Almeida Dias¹, Lia Mara Marcondes², Rosario Elida Suman Bretas¹, Márcio Raymundo Morelli¹; ¹Universidade Federal de São Carlos, ²Universidade Federal de Alfenas**11:30 ORAL3B.3** Nanostructures including photonic crystals**The behavior of the deformation vibration of NH₃ in semi-organic crystals under high pressure studied by Raman spectroscopy**André Luís de Oliveira Cavaignac¹, Ricardo Jorge Cruz Lima²; ¹Universidade Ceuma, ²Universidade Federal do Maranhão**11:50 ORAL3B.4** Electro-optic effects**Bi-functional electro-optical material based on ureasil-polyether hybrid**Gustavo Palacio^{1,2}, Sandra Helena Pulcinelli¹, Rachid Mahiou², Damien Boyer², Celso Valentim Santilli¹; ¹Instituto de Química - UNESP / Campus de Araraquara, ²Institut de Chemie de Clermont-Ferrand - Université Clermont Auvergne**12:10 ORAL3B.5** Luminescent materials**The relationship between structural and optical properties of Eu³⁺ doped B₂O₃-Al₂O₃ compounds through soft chemical process**Lauro June Queiroz Maia¹, Fausto Melo Faria Filho², Rogéria Rocha Gonçalves³, Sidney J.L. Ribeiro⁴; ¹Universidade Federal de Goiás, ²Instituto Federal Goiano, ³Universidade de São Paulo, ⁴Instituto de Química - UNESP / Campus de Araraquara

12:30 **ORAL3B.6** Photonic materials and devices**Nano-optofluidics for Surface Modification Sensing in Porous Anodic Alumina**

Josep Ferre-Borrull¹, Chris Eckstein¹, Elisabet Xifre-Perez¹, Lluís F. Marsal¹; ¹Universitat Rovira i Virgili

THURSDAY, AUGUST 30**SESSION S4****09:00 - 10:20 - Room Maresias****09:00** **S4.1 (Plenary Lecture)****Near-Infrared persistent luminescence: the quest for traps**

Dirk Poelman¹, Olivier Q De Clercq¹, Jiaren Du¹, Katleen Korthout¹; ¹Ghent University / Universiteit Gent

09:40 **S4.2 (Plenary Lecture)****Advances in the development of III-V semiconductors for photonic applications**

Stephen J. Sweeney¹; ¹University of Surrey

SESSION INV5-A**10:50 - 12:20 - Room Maresias****10:50** **INV5-A.1 (Invited Lecture)****Germanium and tellurium oxide glasses based metal-nanocomposites: fabrication and optical applications – a review of recent results.**

Luciana Reyes Pires Kassab¹, Cid B. de Araújo², Davinson Mariano da Silva¹; ¹Faculdade de Tecnologia de São Paulo, ²Universidade Federal de Pernambuco

11:20 INV5-A.2 (Invited Lecture)**Optics in two-dimensional materials and nanocomposites**

Christiano J.S. de Matos¹; ¹Universidade Presbiteriana Mackenzie

11:50 INV5-A.3 (Invited Lecture)**Tunning the optical parameters in nanocomposites: electromagnetic modeling for “custom sized” structures**

María Luz Martínez Ricci¹; ¹Universidad de Buenos Aires

SESSION INV5-B**10:50 - 12:50 - Camburi Room****10:50 INV5-B.1 (Invited Lecture)****Random Laser materials: from ultrahigh efficiency to Anderson localization transition**

Niklaus Ursus Wetter¹, Ernesto Jimenez-Villar¹; ¹Instituto de Pesquisas Energéticas e Nucleares

11:20 INV5-B.2 (Invited Lecture)**Surface decontamination by UV emission of rare-earth phosphors**

Bruno Caillier¹, José Maurício Almeida Caiut², Cristina Muja¹, Philippe Guillot¹; ¹Institut National Universitaire Champollion, ²Universidade de São Paulo

11:50 INV5-B.3 (Invited Lecture)**Rare-earth doped ceramic nanophosphors for applications in nanomedicine**

Karina Nigoghossian¹; ¹Tokyo University of Science

12:20 INV5-B.4 (Invited Lecture)**Photochromism of PMMA - phosphotungstic acid and luminescence of elastomeric copolymer - Eu (III) - b-Diketone**

Celso Molina¹, Fernanda Ferraz Camilo¹, Ariane Espindola¹, Pamela Corradi Silva¹, Norberto Sanches Gonçalves¹, Rute A.S. Ferreira², Luis Dias Carlos²; ¹Universidade Federal de São Paulo, ²University of Aveiro

SESSION ORAL4A

14:20 - 16:20 - Room Maresias

14:20 **ORAL4A.1** *Electro-optic effects*

Super-resolution Imaging and Photothermal Combustion of Nanoparticles on Plasmonic Gratings

Biyan Chen¹, Naadaa G. Zakiyyan¹, Aaron Wood¹, Keshab Gangopadhyay¹, Jacob McFarland¹, Matthew R. Maschmann¹, Shubhra Gangopadhyay^{1,2}; ¹University of Missouri Columbia, ²National Science Foundation

14:40 **ORAL4A.2** *Energy conversion in Rare Earths doped materials*

Energy transfer in Eu³⁺-Tb³⁺ co-doped a-SiN_x thin films

Diego Silva Oliveira¹, Leandro R. Tessler¹; ¹Universidade Estadual de Campinas

15:00 **ORAL4A.3** *Energy conversion in Rare Earths doped materials*

High quantum yield of infrared-to-visible upconversion in Er³⁺/Yb³⁺ co-doped germanate based materials

Rogéria Rocha Gonçalves¹, Fábio José Caixeta¹, Anderson Aparecido Alves Tostes¹, Vítor Santos Souza¹, Leonardo Sousa Rosa¹, Ramon Josef Nicolete Nascimento¹, Felipe Thomaz Aquino¹, Alban Ferrrier², Philippe Goldner²; ¹Universidade de São Paulo, ²Chimie ParisTech

15:20 **ORAL4A.4** *Photovoltaic Materials*

Simplified and quick electrical modeling for dye sensitized solar cells: An experimental and theoretical investigation

Rocelito Lopes Andrade¹, Emerson Kohlrausch¹, Matheus Costa Oliveira¹, Marcos Jose Leite Santos¹; ¹Universidade Federal do Rio Grande do Sul

15:40 **ORAL4A.5** *Photoinduced effects*

Study of the photothermal effect in conjugated polymers

Deize Corradi Grodniski¹, Lucimara Stolz Roman¹, Marlus Koehler¹; ¹Universidade Federal do Paraná

16:00 **ORAL4A.6** Photonic materials and devices**Inverse ridge waveguide platform for optical material development**

Roberto Ricardo Panepucci¹, Gilliard Nardel Malheiros-Silveira², Celio Antonio Finardi¹, Eliana Van Etten³, Talita S. Burger³, Ricardo C. G. Silva³, André M. Daltrini³; ¹Centro de Tecnologia da Informação Renato Archer, ²Universidade Estadual Paulista Júlio de Mesquita Filho, ³CEITEC S. A. Semiconductors

SESSION ORAL4B**14:20 - 16:20 - Camburi Room****14:20** **ORAL4B.1** Energy conversion in Rare Earths doped materials**Luminescent Solar Concentrators based on europium complexes utilizing commercially available solar protectors as primary ligands**

Helmut Isaac Padilla Chavarría¹, Ian Werner¹, Marcelo Folhadella Azevedo¹, Jiang Kai¹; ¹Pontifícia Universidade Católica do Rio de Janeiro

14:40 **ORAL4B.2** Luminescent materials**Photonic properties of Yb³⁺ doped binary glasses and glass ceramics for optical refrigeration**

Jyothis Thomas¹, Lauro June Queiroz Maia², Wonji Park³, Yannick Ledemi³, Denis Seletskiy¹, Younes Messaddeq³, Raman Kashyap¹; ¹Polytechnique Montreal, ²Universidade Federal de Goiás, ³Université Laval

15:00 **ORAL4B.3** Biophotonics**Magneto-Luminescent Nanoprobe of Fe₃O₄ with Engineered Surface Chemistry by Calixarene and Eu³⁺ TTA Complex for Blood Plasma Protein Detection**

Latif Ullah Khan^{1,2}, Diego Stefani Teodoro Martinez¹, Romana Petry¹; ¹Centro Nacional de Pesquisa em Energia e Materiais, ²Laboratório Nacional de Nanotecnologia

15:20 **ORAL4B.4** Photoinduced effects**Periodic structures in Ag- based Chalcogenide thin films produced by laser dewetting**Sandra Helena Messaddeq¹, Alexandre Douaud¹, Younes Messaddeq¹; ¹Université Laval**15:40** **ORAL4B.5** Luminescent materials**Photoluminescence of β -Ga₂O₃ nanostructures: controlled phase synthesis with promising optoelectronic and gas sensor applications**Aline Varella Rodrigues¹, Naira Linhares Sabino², Marcelo Ornaghi Orlandi²; ¹Instituto de Química - UNESP / Campus de Araraquara, ²Universidade Estadual Paulista Júlio de Mesquita Filho**SESSION ORAL5A****16:50 - 18:30 - Room Maresias****16:50** **ORAL5A.1** Luminescent materials**Time-resolved Photoluminescence (TRPL) Spectroscopy – a Macroscopic and Microscopic approach from HORIBA Scientific**Joao Lucas Rangel¹, Linda Casson¹, Francis Ndi¹, Igor Carvalho¹; ¹Horiba Scientific**17:10** **ORAL5A.2** Energy conversion in Rare Earths doped materials**Efficient energy transfer in transparent nanostructured RE₃₊ doped sol-gel SiO₂-LaF₃ glass-ceramics**Francisco Javier del Castillo Vargas¹, Angel Carlos Yanes Hernández¹; ¹Universidad de La Laguna

17:30 **ORAL5A.3** Photoinduced effects**Phototinduced Charge Shifts And Electron Transfer In Tetra(aryl)borate Systems: Dynamics Of Radical-Pair, Spintronics Properties And Polymerization Kinetics**

Willy Glen Santos¹, Sidney J.L. Ribeiro²; ¹Instituto de Química - UNESP / Campus de Araraquara, ²Universidade Estadual Paulista Júlio de Mesquita Filho

17:50 **ORAL5A.4** Biophotonics**FRET-based communication for Photodynamic Therapy**

Cesar Roberto de Souza¹, Walter Jaimes Salcedo¹; ¹Universidade de São Paulo

18:10 **ORAL5A.5** Waveguides**Ultrafast pulse generation by the use of 2D materials in fiber lasers**

Eunézio Antônio Thoroh de Souza¹; ¹Universidade Presbiteriana Mackenzie

SESSION ORAL5B**16:50 - 18:30 - Camburi Room****16:50** **ORAL5B.1** Photoconductivity**Gelatin electrospun nanofibers filled with Ag/POSS composite for electrically conductive biodegradable films**

Ali Riaz¹, Sidney J.L. Ribeiro²; ¹Instituto de Química - UNESP / Campus de Araraquara, ²Universidade Estadual Paulista Júlio de Mesquita Filho

17:10 **ORAL5B.2** Bioimaging**Synthesis and Characterization oZnSe:xMn²⁺ Quantum Dots. Analysis of their Toxicity and kindetic of uptake in vitro (RAW 264-7) as a first step in the development of a Diagnostic Nanoprobe**

Zahid Ullah Khan^{1,2}, Hermi Felinto Brito¹, Latif Ullah Khan^{1,3}, Hiro Goto¹, Eduardo Sanchez¹, Magnus Ake Gidlund^{1,3}; ¹Universidade de São Paulo, ²Instituto Ciências Biomédicas/ Imunologia, ³Instituto Ciências Biomédicas

17:30 **ORAL5B.3** Photovoltaic Materials

High efficiency room temperature binder free TiO₂ paste for flexible dye sensitized solar cells

Kishore Kumar Devarepally¹, Younes Messaddeq²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Université Laval

POSTER PRESENTATIONS

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SESSION P1 19:00 - 21:00 - Room Maresias 33

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SESSION P2 19:00 - 21:00 - Room Maresias 42

MONDAY, AUGUST 27

SESSION P1

19:00 - 21:00 - Room Maresias

Bioimaging

P1.1 - Study of the luminescence mechanism in Eu and Ti doped-Y₂O₃
Isis Frigeri Manali¹, Veronica de Carvalho Teixeira², Lucas Carvalho Veloso Rodrigues³, Adriano Henrique Braga², Douglas Galante²; ¹Universidade Estadual de Campinas, ²Centro Nacional de Pesquisa em Energia e Materiais, ³Universidade de São Paulo

Biophotonics

P1.2 - Structural study of rare earth ions doped silk fibroin
Roberta Silva Pugina¹, José Maurício Almeida Caiut¹; ¹Universidade de São Paulo

P1.3 - Potential application of Nb₂O₅:Eu³⁺ nanostructured materials as luminescent markers on Photonics and Biophotonics
Mateus Grecco Manfré¹, Rafael Ramiro Pereira¹, Silvana Ruella de Oliveira¹, Rogéria Rocha Gonçalves¹; ¹Universidade de São Paulo

P1.4 - Methyl-aminolevulinic Gold Nanoparticles photodynamic therapy for atherosclerosis: synthesis, characterization and in-vitro study.
Karina de Oliveira Gonçalves¹, Daniel Perez Vieira², Lilia Coronato Courrol¹; ¹Universidade Federal de São Paulo, ²Instituto de Pesquisas Energéticas e Nucleares

P1.5 - Electrochemical detection of MRSA bacteria using Layer-by-Layer films containing antimicrobial peptide Hyllina with luminescent nanoparticles immobilized on silk fibroin
Lais Roncalho Lima¹, Marli Leite de Moraes², Eduardo Maffud Cilli¹, Elenice Deffune¹, Sidney J.L. Ribeiro¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Universidade Federal de São Paulo

P1.6 - Detection of multiresistant bacteria by combining electrochemical and luminescent techniques

Marli Leite de Moraes¹, Anna Laura Yuri Yokomichi¹, Lais Roncalho Lima², Elenice Deffune², Sidney J.L. Ribeiro²; ¹Universidade Federal de São Paulo, ²Universidade Estadual Paulista Júlio de Mesquita Filho

Electro-optic effects**P1.7 - Study on the opto-electronic behavior of natural latex thin films embedded with Cu_{2-x}S nanocrystals for memory storage applications**

Roberto de Aguiar Ramos Jr.¹, Mirko Congiu¹, Miguel Henrique Boratto¹, Paride Pica¹, Carlos FO Graeff¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

P1.8 - Characterization of opto-electronic property of WORM memory device with CuS nanocrystals and Gold and Silver nanoparticles in polymeric thin film

Paride Pica¹, Mirko Congiu², Miguel Henrique Boratto², Ilaria Fratoddi¹, Carlos FO Graeff²; ¹Università degli Studi di Roma La Sapienza, ²Universidade Estadual Paulista Júlio de Mesquita Filho

Energy conversion in Rare Earths doped materials**P1.9 - Er³⁺/Yb³⁺Doped Silica Matrix Coated by Sol-Gel on Commercial Photovoltaic Cells**

Eduardo José Nassar¹, Jéssica Potomatti Batista¹, Henrique José da Silva¹, Lucas Alonso Rocha¹; ¹Universidade de Franca

P1.10 - Upconversion of Yb³⁺ e Er³⁺, titanium matrix for solar cell applications

Danielle Da Cunha Baldini¹, Emerson Henrique de Faria¹, Katia Jorge Ciuffi¹, Lucas Alonso Rocha¹, Eduardo José Nassar¹; ¹Universidade de Franca

Energy transfer

P1.11 - Energy transfer study in polyfluorene copolymer systems

Alessandra Stacchini Menandro¹, Hueder Paulo Moisés de Oliveira², Laura Oliveira Péres¹; ¹Universidade Federal de São Paulo, ²Universidade Federal do ABC

Luminescent materials

P1.12 - Radio-photoluminescence in Ag-doped CsBr transparent ceramic

Hiromi Kimura¹, Go Okada¹, Takumi Kato¹, Noriaki Kawaguchi¹, Safa Kasap², Takayuki Yanagida¹; ¹Nara Institute of Science & Technology, ²University of Saskatchewan

P1.13 - Optically stimulated luminescence properties of BaBr₂:Eu translucent ceramic and single crystal

Hiromi Kimura¹, Takumi Kato¹, Daisuke Nakauchi¹, Go Okada¹, Noriaki Kawaguchi¹, Takayuki Yanagida¹; ¹Nara Institute of Science & Technology

P1.14 - Thermoluminescence Analysis of Alexandrite: Towards a Natural Dosimeter

Neilo M Trindade¹, Marcela R Cruz², Henrique Kahn², Luiz Jacobsohn³, Elisabeth M Yoshimura²; ¹Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, ²Universidade de São Paulo, ³Clemson University

P1.15 - Microwave assisted solid state synthesis of the up-converting material β -NaGdF₄:Yb,Tm.

Luidgi Giordano¹, Lucas Carvalho Veloso Rodrigues¹; ¹Universidade de São Paulo

P1.16 - The same Cd, different optical storage properties

Miguel Aguirre Stock Grein Barbará¹, Lucas Carvalho Veloso Rodrigues¹; ¹Universidade de São Paulo

P1.17 - The preparation and study of fluorescence properties of NaPO₃-Nb₂O₅-Ga₂O₃:Yb³⁺ glasses doped with silver nanoparticles

Silvia Helena Santagneli¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

P1.18 - Functionalized Upconversion Nanoparticles for Photodynamic Inactivation of Bacteria

Marylyn Setsuko Arai¹, Malte Grüner¹, Andrea Simone Stucchi de Camargo¹; ¹Universidade de São Paulo

P1.19 - White light emission of the single-phase CaWO₄:Dy³⁺ phosphors by simple synthesis and fast heating

Heliomar Pereira Barbosa¹, Cássio Cardoso Santos Pedroso¹, Maria Claudia França da Cunha Felinto², Oscar Loureiro Malta³, Hermi Felinto Brito¹; ¹Universidade de São Paulo, ²Instituto de Pesquisas Energéticas e Nucleares, ³Universidade Federal de Pernambuco

P1.20 - Optical thermometry based on Nd³⁺-doped fluorophosphate glasses

Walter Jose Gomes Juste Faria¹, Tássia Souza Gonçalves¹, Andrea Simone Stucchi de Camargo¹; ¹Instituto de Física de São Carlos

P1.21 - Synthesis and characterization of silica hybrid materials doped with Ir(III) complexes

Raquel Riciati do Couto Vilela¹, Kassio Papi da Silva Zanoni¹, Fábio Simões de Vicente², Andrea Simone Stucchi de Camargo¹; ¹Instituto de Física de São Carlos, ²Universidade Estadual Paulista Júlio de Mesquita Filho

P1.22 - Structural changes in solvent-induced crystallization of [Tb(bbppn)(NO₃)] complex

Thaiane Gregorio¹, Joyce De Mattos Leão², Paula C. Rodrigues², Siddharttha Om Kumar Giese¹, Emilson Ribeiro Viana Junior², Andréia Gerniski Macedo², Luis Dias Carlos³, Rute A.S. Ferreira³, Eduardo Lemos de Sá¹, Giovana Gioppo Nunes¹, Jaisa Fernandes Soares¹; ¹Universidade Federal do Paraná, ²Universidade Tecnológica Federal do Paraná, ³University of Aveiro

P1.23 - Buriti Oil as plasticizer in Eu³⁺ red emitting membranes and evaluation of cryo-treatment in the luminescent properties

Airton Germano Bispo Junior¹, Ana Maria Pires¹, Sergio Antonio Marques Lima¹, Celso Xavier Cardoso¹; ¹FCT-UNESP Campus de Presidente Prudente

P1.24 - Photoluminescence in doped and alloyed amorphous selenium
 Cyril Koughia¹, Ozan Gunes¹, Richard Curry², Safa Kasap¹; ¹University of Saskatchewan, ²University of Manchester

P1.25 - Insights on the improvement of the optical properties of chemically precipitated hydroxyapatite nanorods
 Jussara Soares da Silva¹, Thales Rafael Machado¹, Héctor Beltrán Mir², Eloisa Cordoncillo², Elson Longo¹; ¹Universidade Federal de São Carlos, ²Universitat Jaume I

P1.26 - Characterization of MgB₂O₄:Dy, Li and MgB₂O₄:Ce, Li for applications as TL and OSL dosimeter
 Gerardo Rivera Barrera¹, Divanizia do Nascimento Souza¹; ¹Universidade Federal de Sergipe

Nanophotonics

P1.27 - Nd³⁺-Sensitized Gd³⁺-based Core/Shell/Shell Upconverting Nanoparticles: A Platform for Multicolour Emissions through Bi-directional Energy Transfer
 York Estewin Serge Correales¹, Chanchal Hazra¹, Sajjad Ullah¹, Lais Roncalho Lima¹, Sidney J.L. Ribeiro¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

Nanostructures including photonic crystals

P1.28 - Plasma type impact on Emission and Structure of Nd-doped Si-rich-HfO₂ films prepared by magnetron sputtering
 Erasto Vergara Hernández¹, Leonardo G. Vega Macotela¹, Tetyana V. Torchynska¹, Larysa Khomenkova², Christophe Labbe³, Fabrice Goubilleau³, Xavier Portier³; ¹Instituto Politécnico Nacional, ²National University «Kyiv-Mohyla academy», ³CIMAP/CEA/CNRS/Ensicaen/UCBN

Non-linear effects

P1.29 - Nonlinear spectroscopy of aqueous copper chlorophyllin solution
Lucas Fiocco Sciuti¹, Leandro Cocca¹, Pablo Gonçalves¹, Leonardo De Boni¹; ¹Universidade de São Paulo

P1.30 - Yb³⁺ doped fluorophosphate glasses as promising candidates for fiber laser applications

Tássia Souza Gonçalves^{1,2}, Lucas Fiocco Sciuti¹, Leonardo De Boni², Andrea Simone Stucchi de Camargo²; ¹Universidade de São Paulo, ²Instituto de Física de São Carlos

P1.31 - Interpreting the two-photon absorption spectrum of Copper Indium Disulfide Quantum dots

George Brian dos Reis¹, Ruben Fonseca Rodriguez², Calink I. L. dos Santos³, Leiriana Aparecida Pinto Gontijo³, Marco Antonio Schiavon³, Leonardo De Boni², Cleber R. Mendonça², Marcelo G. Vivas¹; ¹Universidade Federal de Alfenas, ²Instituto de Física de São Carlos, ³Universidade Federal de São João Del Rei

Photoinduced effects**P1.32 - XAFS structural study and electro-optical characteristics of GaAs/SnO₂ heterostructure**

Cristina de Freitas Bueno¹, Luis Vicente de Andrade Scalvi¹, Aline Ramos², Eric Mossang²; ¹Universidade Estadual Paulista Júlio de Mesquita Filho, ²Institut Néel, CNRS/UGA

Photovoltaic Materials**P1.33 - Synthesis of KBiFe₂O₅ by eletrospinning**

Rosario Elida Suman Bretas¹, Wolfgang Michael Sigmund²; ¹Universidade Federal de São Carlos, ²University of Florida

P1.34 - Fluorescence behavior of Aluminum Hydroxide Phthalocyanine in the presence of functionalized multi-wall carbon nanotubes in ethylic solution

Sergio Fernando Curcio¹, Jonnathan Fernando Duarte¹, Bruna Bueno Postacchini¹, Luiz Orlando Ladeira², Jaqueline Soares¹, Thiago Cazati¹; ¹Universidade Federal de Ouro Preto, ²Universidade Federal de Minas Gerais

P1.35 - CdS/CdTe ultra-thin solar cells processed by Magneto-Planar-Sputtering

Karla Gutiérrez Z-B¹, Patricia Zayas-Bazán¹, Francisco de Moure-Flores², Daniel Jiménez-Olarte¹, Jorge Sastré-Hernández¹, Carlos Hernández-Gutiérrez³, Jorge Aguilar-Hernández¹, Concepción Mejía-García¹, Arturo Morales-Acevedo³, Gerardo Contreras-Puente¹; ¹Instituto Politécnico Nacional, ²Universidad Autónoma de Querétaro, ³CINVESTAV

P1.36 - Synthesis of the perovskite KBiFe₂O₅ by Solution Combustion

Márcio Raymundo Morelli¹, Jhonata Rafael Verza¹, Cássia Costa Nascimento¹, Rosario Elida Suman Bretas¹; ¹Universidade Federal de São Carlos

P1.37 - Synthesis of perovskite [KNbO₃]_{0,9}[BaNi_{0,5}Nb_{0,5}O_{3-δ}]_{0,1} by Solution Combustion

Jhonata Rafael Verza¹, Cássia Costa Nascimento¹, Rosario Elida Suman Bretas¹, Márcio Raymundo Morelli¹; ¹Universidade Federal de São Carlos

P1.38 - Effect of solvent annealing on the P3HT molecular phases

Gregorio Couto Faria¹, Márcio Fernando Cobo¹, Eduardo Ribeiro de Azevedo¹; ¹Instituto de Física de São Carlos

P1.39 - Photoresistive behavior of BaTiO₃/ BiFeO₃ composite

Renato Boschilia Junior¹, Eduardo Antonelli¹; ¹Universidade Federal de São Paulo

Photonic band gap materials**P1.40 - Synthesis and optical properties of LaCrO₃-doped****Bi₄Ti₃O₁₂ ceramics**

Ana Carolina Figueiredo Prado¹, Carmen Greice Renda¹, Jeferson Almeida Dias¹, Márcio Raymundo Morelli¹; ¹Universidade Federal de São Carlos

Photonic materials and devices

P1.41 - Development of apodization profile for highly sensitive pi-phase shifted fiber Bragg grating moisture and temperature sensor

Navjot Kaur¹, Bowei Zhang¹, Peter Kung², Mojtaba Kahrizi¹; ¹Concordia University Montreal, ²QPS Photonics

P1.42 - Modeling Time dependant Humidity Diffusion into FBG Polyimide Coating for Sensing Applications

Navjot Kaur¹, Parsoua Abedini Sohi¹, Mojtaba Kahrizi¹; ¹Concordia University Montreal

P1.43 - Application of a ZnO UV sensor for a scintillation-type radiation detector

Takami Abe¹, Yutaro Suzuki¹, Akira Nakagawa¹, Tetsuya Chiba¹, Michiko Nakagawa¹, Yasuhiro Kashiwaba², Ikuo Niikura¹, Yasube Kashiwaba¹, Hiroshi Osada¹; ¹Iwate University, ²Sendai National College of Technology

P1.44 - Synthesis and characterization of glasses and glass ceramics of tantalum phosphate

Sergio Alexandre Maestri¹, Bianca Paula Sousa¹, Lia Mara Marcondes¹, Cristiano Ramos Cunha¹, Gael Yves Poirier¹; ¹Universidade Federal de Alfnas

P1.45 - Thermal and structural properties of new tantalum alkali-phosphate glasses

Bianca Paula Sousa¹, Sergio Alexandre Maestri¹, Lia Mara Marcondes¹, Cristiano Ramos Cunha¹, Camila Pereira¹, Gael Yves Poirier¹; ¹Universidade Federal de Alfnas

P1.46 - X-ray Induced Sm- Valence Conversion in Ion-Implanted Fluoroaluminate Glasses X-ray Induced Sm-Valence Conversion in Ion-Implanted Fluoroaluminate Glasses

Farley Chicilo¹, Cyril Koughia¹, Richard Curry², Russel Gwilliam³, Andy Edgar⁴, Safa Kasap¹; ¹University of Saskatchewan, ²University of Manchester, ³University of Surrey, ⁴Victoria University of Wellington

P1.47 - Optical Switches Based on Induced Gratings

Ozan Gunes¹, Cyril Koughia¹, Safa Kasap¹, Shi-Jie Wen², Rick Wong²; ¹University of Saskatchewan, ²Cisco Systems Inc.

P1.48 - Vanadium dioxide microrods synthesized from vanadium pentoxide thin films

Safa Kasap¹; ¹University of Saskatchewan

Quantum dots

P1.49 - Effect of Dielectric Constant on Emission of Carbon Quantum Dots Dispersed in Solvents

Jose Luis Casas Espinola¹, Juan Jose Lopez Hernandez¹; ¹Instituto Politécnico Nacional

P1.50 - Temperature-Dependent Photoluminescence Spectra of Carbon Quantum Dots

Jose Luis Casas Espinola¹, Juan Jose Lopez Hernandez¹; ¹Instituto Politécnico Nacional

Semiconductors for optoelectronics

P1.51 - Charge transport in PEDOT:PSS/GPTMS composites

Renan Colucci¹, Gregorio Couto Faria¹, Lucas Fugikawa Santos², Giovanni Gozzi²; ¹Universidade de São Paulo, ²Universidade Estadual Paulista Júlio de Mesquita Filho

P1.52 - Ba-doped ZnO material: photoinduced properties of novel semiconductor applied on photocatalytic process

Luis Henrique da Silveira Lacerda¹, Renan Augusto Ribeiro¹, Eduardo Felipe Neves¹, Leonardo Konopaski Andreani¹, Alexandre Camilo Junior¹, Sergio Ricardo de Lazaro¹; ¹Universidade Estadual de Ponta Grossa

P1.53 - Theoretical investigation of smart materials as photocatalytic agents in water split and organic degradation

Luis Henrique da Silveira Lacerda¹, Renan Augusto Ribeiro¹, Eduardo Felipe Neves¹, Leonardo Konopaski Andreani¹, Alexandre Camilo Junior¹, Sergio Ricardo de Lazaro¹; ¹Universidade Estadual de Ponta Grossa

P1.54 - Transmittance of highly doped TiO₂: Yb³⁺ films deposited by sol-gel dip-coating method
 Transmittance of highly doped TiO₂: Yb³⁺ films deposited by sol-gel dip-coating method

Luiz Felipe Kaezmarek Pedrini¹, Luis Vicente de Andrade Scalvi¹; ¹Universidade Estadual Paulista Júlio de Mesquita Filho

TUESDAY , AUGUST 28

SESSION P2

19:00 - 21:00 - Room Mareasias

Biophotonics

P2.1 - Water dispersible NIR-II Dye-Sensitized Core/Active Shell Upconversion Nanoparticles

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Fernando Eduardo Maturi¹, Sidney J.L. Ribeiro², Bradley Olsen³; ¹Instituto de Química - UNESP / Campus de Araraquara, ²Universidade Estadual Paulista Júlio de Mesquita Filho, ³Massachusetts Institute of Technology

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