

The 6th International Conference on the Physics of Optical Materials and Devices
AND

The 5th International Workshop of Persistent and Photostimulable Phosphors (IWPPP-5)
Belgrade, Serbia, 29th of August to 2nd of September 2022

| Sunday, 28 August 2022 | |
|------------------------------------|---------------------|
| Hotel Falkensteiner (Lobby) | |
| 16.00-20.00 | Registration |

| Monday, 29 August 2022 | |
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| Hotel Falkensteiner (Main conference hall) | |
| 8.00-16.00 | Registration (Lobby) |
| 9.30-10.00 | Meet and Greet |
| 10.00-10.10 | Opening Ceremony |
| Session 1: 10.10-11.00 <i>Light for sensing</i> <i>Session chairs: Xiaogang Liu, Andries Meijerink</i> | |
| 10.10-10.35 | Invited lecture 1 Claudia Wickleder <i>Luminescence of mixed valence materials - essentially unexplored.</i> |
| 10.35-11.00 | Invited lecture 2 Stephen Rand <i>Laser cooling of sapphire on an electric-dipole transition</i> |
| 11.00-11.30 | Coffee Break |
| Parallel sessions 2 (room A) and 3 (room B): 11.30-13.00 <i>Luminescence of Crystals (Chairs: M. Brik, M. Piasecki):</i> <i>Thin Films and Composites (Chairs: G. Lozano, M. Wickleder):</i> | |
| 11:30-11.45 | Oral lecture 1 Milan Lalic <i>New ferroelectric photovoltaic devices: the origin of a large difference in power conversion efficiency between the hexagonal manganites and ferrites</i> |
| 11.45-12.00 | Oral lecture 2 Hong Zhang <i>New possibilities of phosphor from a nano perspective</i> |
| 12.00-12.15 | Oral lecture 3 Andrei Racu <i>Erbium doped materials and correlation of photoluminescence, structure and symmetry</i> |
| 12.15-12.30 | Oral lecture 4 Kei Kamada <i>Development of novel eutectic scintillators for thermal neutron detections and their material design</i> |
| 12.30-12.45 | Oral lecture 5 Rei Sasaki <i>Crucible free growth and scintillation properties of β-Ga₂O₃ single crystals</i> |
| 12.45-15.00 | Oral lecture 6 Jeremy Cathalan <i>Development of rare earth-free aluminium borate-based phosphors and composite films</i> |
| 11.45-12.00 | Oral lecture 7 Luiz Jacobsohn <i>MgAl₂O₄ AND ZnAl₂O₄: microstructure, defects and luminescence</i> |
| 12.00-12.15 | Oral lecture 8 Vitezslav Jary <i>Optical properties of InGaN epitaxial layers doped by Si and Ge</i> |
| 12.15-12.30 | Oral lecture 9 Jelena Papan <i>Highly stabile magneto-fluorescent colloid based on barium hexaferrite nanoplatelets with polyphenol coating</i> |
| 12.30-12.45 | Oral lecture 10 Peng Feng <i>Investigation on effect of trap on afterglow process in long wavelength PersL SrMgGe₂O₆: Mn²⁺, Sm³⁺</i> |
| 12.45-15.00 | Break |
| Session 4 (Main conference hall): 15.00-17.35 <i>Exploring luminescent Systems</i> <i>Session chairs: Thomas Thundat, Stephen Rand</i> | |

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| 15.00-15.45 | Plenary lecture 1 Xiaogang Liu <i>Luminescent nanoparticles: a wonderful toolbox for assistive technologies.</i> |
| 15.45-16.30 | Plenary lecture 2 Andries Meijerink <i>Non-radiative transitions: our dark foe...and friend</i> |
| 16.30-16.55 | Invited lecture 3 Gabriel Lozano <i>Nanophosphor-based Photonic Materials provide fine control over the emission properties of rare-earth nanocrystals</i> |
| 16.55-17.20 | Invited lecture 4 Matias Wickleder <i>Divalent lanthanide triflates</i> |
| 17.20-17.35 | Oral lecture 11 Carlos Brites <i>Taking advantage of trivalent lanthanide ions for reprogrammable and reconfigurable photonic molecular logic gates</i> |
| 17:35 | Break |
| 19.30-21.30 | Welcome Party at Restaurant and Bar "AMSTERDAM" ADDRESS: KEJ OSLOBODJENJA BB, BELGRADE |

| Tuesday, 30 August 2022 | |
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| Hotel Falkensteiner | |
| 8.00-16.00 | Registration (LOBBY) |
| Session 5 (Main conference hall):9.00-11.00 <i>Persistent Luminescence Materials</i> Session chairs: Bruno Viana, Mathieu Allix | |
| 9.00-9.45 | Plenary lecture 3 Setsuhisa Tanabe <i>Traps for persistence or/and photochromism; can they be AND?</i> |
| 9.45-10.20 | Keynote lecture 1 Wei Chen <i>Persistent Luminescence nanophosphors for Photodynamic activation and Anti-counterfeiting Application</i> |
| 10.20-10.45 | Invited lecture 5 David van der Heggen <i>Metastable states in persistent phosphors: A spectroscopic game of hide-and-peek</i> |
| 10.45-11.00 | Oral lecture 12 Verena Fritz <i>Lost in the heat of the moment: bringing losses in persistent phosphors to light with a set of thermoluminescence measurements</i> |
| 11.00-11.30 | Coffee Break |
| Session 6 (Main conference hall):11.30-13.05 <i>Persistent Luminescence Mechanisms</i> Session chairs: Setsuhisa Tanabe, Thomas Justel | |
| 11.30-12.05 | Keynote lecture 2 Philippe Smet <i>Moving persistent phosphors beyond afterglow: A platform for sensing</i> |
| 12.05-12.40 | Keynote lecture 3 Pieter Dorenbos <i>Bismuth for luminescence and charge carrier storage in inorganic compounds</i> |
| 12.40-13.05 | Invited lecture 6 Stephane Jobic <i>Can theoretical calculations meet experiments and explain luminescence properties?</i> |
| 13.05-15.00 | Break |
| Session 7 (Main conference hall): 15.00-17.10 <i>Tools and Applications of Persistent Phosphors</i> Session chairs:Philippe Smet, Bernhard Walfort | |

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| 15.00-15.25 | Invited lecture 7 Farida Selim <i>Advanced cryogenic thermally stimulated emission spectroscopy-A new tool for assessing optical materials</i> |
| 15.25-15.50 | Invited lecture 8 Lucas Rodrigues <i>Coupling persistent luminescence materials for increased applicability: thin films and upconversion energy transfer</i> |
| 15.50-16.15 | Invited lecture 9 Victor Castaing <i>Transparent persistent luminescence films: from design to glowing perspectives</i> |
| 16.15-16.40 | Invited lecture 10 Teresa Delgado <i>Persistent luminescence nanoparticles for bimodal bioimaging in the NIR-I / II transparency window</i> |
| 16.40-16.55 | Oral lecture 13 Songsong Ding <i>Strategies For Designing Ultra-Broadband Near-Infrared Long Persistent Luminescent Materials</i> |
| 16.55-17.10 | Oral lecture 14 Maria Zamoryanskaya <i>Excitation capture efficiency of point defects and rare-earth ions in wide-gap materials</i> |
| 17.10-17.30 | COFFEE BREAK |
| 17.30-19.30 | CONFERENCE PHOTO & POSTER SESSION Hotel Falkensteiner (Garden Hall) |

| Wednesday, 31 August 2022 | |
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| Hotel Falkensteiner | |
| 8.00-10.00 | Registration (LOBBY) |
| Session 8 (Main conference hall): 9.00-10.50 <i>Design of Optical Thermometers</i> Session chairs: Daniel Jaque, Lukasz Marciniak | |
| 9.00-9.45 | Plenary lecture 4 Luis Carlos <i>Luminescent thermometers as new toys in the block. All you need is light.</i> |
| 9.45-10.10 | Invited lecture 11 Helene Brault <i>Luminescence thermometry of Eu-Tb mixed metal-organic frameworks: some ways to tune the thermometric performances</i> |
| 10.10-10.35 | Invited lecture 12 Aleksander Ciric <i>LumTHools - software for analysis of phosphors' luminescence temperature dependence</i> |
| 10.35-10.50 | Oral lecture 15 Abbi Mullins <i>Dual-emission luminescence thermometry using LaGaO₃:Cr³⁺, Nd³⁺ phosphors</i> |
| 10.50-11.30 | Coffee Break |
| Session 9 (Main conference hall): 11.30-12.45 <i>Phosphors for bio-applications</i> Session chairs: Corinne Chaneac, Wei Chen | |
| 11.30-12.05 | Keynote lecture 4 Thomas Justel <i>Pr³⁺- UV Phosphors and ways to convert them into persistent phosphors for medical applications</i> |
| 12.05-12.30 | Invited lecture 13 Angel Millan <i>A new technology for real-time intracellular temperature imaging and monitoring. Application to local magnetic hyperthermia therapy</i> |
| 12.30-12.45 | Oral Lecture 16 Cyrille Richard <i>Coating ZGO nanoparticles for in vivo imaging</i> |
| 12:45-15.00 | Break |

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| Session 10 (Main conference hall):15.00-16.30 <i>New Optical Phenomena</i> Session chairs: <i>Stephane Jobic, Pieter Dorenbos</i> | |
| 15.00-15.25 | Invited lecture 14 Diana Serrano <i>Rare-earth molecular crystals for photonic quantum technologies</i> |
| 15.25-15.50 | Invited lecture 15 Amina Bensalah <i>Polarization control in chirowaveguides: towards integrated chiral sensors</i> |
| 15.50-16.15 | Invited lecture 16 Michal Piasecki <i>Mid-Infrared Luminescent Materials: Overview and Structure–Property Relationship</i> |
| 16.15-16.30 | Oral Lecture 17 Dimitrije Mara <i>Lanthanide MOFs linear and nonlinear optical properties</i> |
| 16.30 | Break |
| 19.00-22.00 | BOAT CRUISE AND CONFERENCE DINNER PARTY (Jahting klub "Kej" Ušće, Beograd) |

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| Thursday, 1 September 2022 | |
| Hotel Falkensteiner | |
| 8.00-10.00 | Registration (LOBBY) |
| Session 11 (Main conference hall):9.00-11.00 <i>Optical Thermometry</i> Session chairs: <i>Helene Brault, Luis Carlos</i> | |
| 9.00-9.45 | Plenary lecture 5 Daniel Jaque <i>The future of brain thermometry: the era of nano</i> |
| 9.45-10.20 | Keynote lecture 5 Markus Suta <i>Can we control luminescent thermometers? - From the application to a fundamental understanding of non-radiative rates</i> |
| 10.20-10.45 | Invited lecture 17 Corinne Chaneac <i>Optimization of doped spinel oxides and silver sulfide for optical imaging and temperature sensing. Some examples of temperature measurements</i> |
| 10.45-11.00 | Oral lecture 18 Thimo Jacobs <i>Nanoscale Sensing of Temperature during Catalytic Reactions in a Broad Temperature Range</i> |
| 11.00-11.30 | Coffee Break |
| Session 12 (Main conference hall):11.30-13.00 Applications of Lanthanides' Emissions Session chairs: <i>Diana Serrano, Claudia Wickleder</i> | |
| 11.30-12.05 | Keynote lecture 6 Lukasz Marciniak <i>New strategies of enhancing the performance of lanthanide based luminescence thermometers</i> |
| 12.05-12.30 | Invited lecture 18 Alessandra Toncelli <i>Lanthanide Ions: from Visible to Mid-Infrared Emission</i> |
| 12.30-12.45 | Oral lecture 19 Matthias Adlung <i>Unrevealing the optical properties of Dy²⁺ and Ho²⁺ doped in different halide host lattices</i> |
| 12.45-13.00 | Oral lecture 20 Takahiko Horiai <i>Crystal Growth of Ce-doped (Gd,Y)ScO₃ Scintillators by Micro-Pulling-Down Method and Their Optical Properties</i> |
| 13.00-15.00 | Break |

| Parallel session 13 (room A), 14 (room B) and 15 (room C): 15.00-16.30 <i>Session chairs 13: Zeljka Antic (Thermometry): Session chairs 14 Teresa Delgado (Glasses and Crystals): Session chairs 15: (V. Castaing) Luminescence features</i> | | | |
|---|---|---|--|
| 15.00-15.15 | Oral lecture 21 Jur de Wit <i>Temperature-dependent Photoluminescence Saturation Effects in $K_2SiF_4: Mn^{4+}$</i> | Oral lecture 27 Akira Yoshikawa <i>Bulk crystal growth of Ce:GAGG and Ce:La-GPS single crystal from the melt using precious metal crucible-free OCCC Method</i> | Oral lecture 33 Julijana Cvjetinovic <i>Optical properties of diatom algae: research methods and potential applications</i> |
| 15.15-15.30 | Oral lecture 22 Karolina Elzbieciak - Piecka <i>$GdAl_3(BO_3)_4 :Cr^{3+}$ for light-induced heat generation</i> | Oral lecture 28 Aytaç Gürhan Gökçe <i>Europium doped bismuth borate glasses: from structure to luminescence properties</i> | Oral lecture 34 Sergey Fateev <i>All dimensions within sole cation: structure and optical properties of low-dimensional halide perovskites with formamidinium</i> |
| 15.30-15.45 | Oral lecture 23 Thomas Swieten <i>Enormous photonic artefacts in luminescence nanothermometry</i> | Oral lecture 29 Ryuga Yajima <i>Growth and scintillation properties of a novel $K_2CeCl_5/LiCl$ eutectic for thermal neutron detection</i> | Oral lecture 35 Kseniia Orekhova <i>Cathodoluminescent rise and decay kinetics in single crystals and ceramics based on YAG:Re³⁺</i> |
| 15.45-16.00 | Oral lecture 24 Vitaliy Shkoldin <i>STM nanolithography of hybrid structures for tunnel junction based localized optical sources</i> | Oral lecture 30 Yuui Yokota <i>Growth of $La_2Zr_2O_7$ and $La_2Hf_2O_7$ Single Crystals with High Melting Point by Novel Growth Method and their Luminescent Properties</i> | Oral lecture 36 Elena Ushakova <i>Revealing the nature of optical activity in carbon dots produced from different chiral precursor molecules</i> |
| 16.00-16.15 | Oral lecture 25 Dmitry Sovyk <i>Opal-like photonic structures made of single crystal diamond</i> | Oral lecture 31 Leonid Oster <i>Improved linearity of dose response in the thermoluminescence of gamma irradiated LiF:Mg,Ti (TLD-100) following optical excitation</i> | Oral lecture 37 Alexander Moskvina <i>Charge transfer excitons in htsc cuprates and nickelates</i> |
| 16.15-16.30 | Oral lecture 26 Kirill Boldyrev | Oral lecture 32 Melis Gökçe <i>Optical properties of Sm^{3+} ions</i> | Oral lecture 38 Vladimir Makhov <i>Low-temperature</i> |

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| | <i>High-resolution luminescent studies of LiYF₄:Ho for sensor applications</i> | <i>doped bismuth germanate glasses for photonic applications</i> | <i>luminescence of chromium ions in spinel hosts</i> |
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| Friday, 2 September 2022 | |
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| Hotel Falkensteiner | |
| 8.00-10.00 | Registration (LOBBY) |
| Session 16 (Main conference hall): 9.00-12.55 Tuning Optical Properties <i>Session chairs: Alessandra Toncelli , Markus Suta,</i> | |
| 9.00-9.35 | Keynote lecture 7 Mikhail Brik <i>Crystal field and first-principles calculations of optical properties of the Mn⁴⁺-doped phosphors</i> |
| 9.35-10.00 | Invited lecture 19 Andrzej Suchocki <i>Luminescence of d5 transition-metal ions under high-pressures</i> |
| 10.00-10.25 | Invited lecture 20 Yaroslav Zhydachevskyy <i>Chemical tuning of Mn⁴⁺ photoluminescence in Ga₂O₃ Al₂O₃ alloys</i> |
| 10.25-10.40 | Oral lecture 39 Deniz Koçyiğit <i>Effect of silver (Ag) nanoparticles on the luminescence properties of Dy³⁺ ions in borate glasses for solid state lighting applications</i> |
| 10.40-10.55 | Oral lecture 40 Arnoldus J. van Bunningen <i>Thermal Luminescence quenching in Mn²⁺</i> |
| 10.55-11.10 | Coffee Break |
| 11.10-11.45 | Keynote lecture 8 Aleksandra Djuricic <i>Quasi-2D halide perovskite light emitting materials and devices</i> |
| 11.45-12.10 | Invited lecture 21 Ivana Evans <i>Structure-property relationships in Mn⁵⁺-activated apatite-type phosphors</i> |
| 12.10-12.25 | Oral lecture 41 Dasheng Lu <i>Thermoresponsive polymeric nanolenses magnify the thermal sensitivity of single upconverting</i> |
| 12.25-12.40 | Oral lecture 42 Mykhailo Chaika <i>On the time dependence of white emission intensity and the temperature of transparent Cr-doped YAG ceramics</i> |
| 12.40-12.55 | Oral lecture 43 Linda Dalipi <i>2D luminescence thermometry using dual low power LED excitation and single-band emission</i> |
| 12.55-13.30 | Closing Ceremony |

List of Poster presentations:

- P1. Bernhard Walfort
Fundamental Loading-Curve Characteristics of the Persistent Phosphor
SrAl₂O₄:Eu²⁺,Dy³⁺,B³⁺
- P2. Kyoung Jin Kim
A novel ternary eutectic of CeCl₃/LiCl/CaCl₂ as a thermal neutron scintillator
- P3. Ondřej Lalinsky

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- Accelerated cathodoluminescence response of YAP:Ce,Mg single-crystalline films
- P4. Blagovest Napoleonov
ALD DEPOSITED ZnO:AL FILMS ON RIGID AND FLEXIBLE SUBSTRATES FOR ORGANIC/INORGANIC HYBRID STRUCTURES
- P5. Dragana Tošić
Anthocyanins from aronia powder as pH-responsive sensors
- P6. Sergei Cherevko
APPLICATION OF AMPHIPHILIC CARBON DOTS FOR POTENTIAL IMPROVEMENT OF LIGHT HARVESTING IN OPTOELECTRONIC DEVICES
- P7. Simona Premcheska
BIOCOMPATIBLE UPCONVERTING Yb^{3+} - Er^{3+} CO-DOPED INORGANIC Na_3ZrF_7 NANOPARTICLES AND HYBRID $\text{PMO}@ \text{Na}_3\text{ZrF}_7$ AND $\text{PMO}@ \text{NaYF}_4$ NANOPARTICLES FOR TEMPERATURE SENSING IN THE PHYSIOLOGICAL RANGE
- P8. Ivana Vukoje
CHARGE TRANSFER COMPLEX FORMATION BETWEEN SILVER NANOPARTICLES AND AROMATIC AMINO ACIDS: EXPERIMENTAL AND DFT STUDY
- P9. Hiroki Kawamoto
Composition dependence of recombination behavior of electrons and holes at high temperature in Ag-doped phosphate glasses
- P10. Bruno Viana
Control of defects and applications of persistent luminescence materials at various sizes
- P11. Kyoung Jin Kim
Crystal growth and scintillation properties of Mo co-doped $\text{Ce}:\text{Gd}_3\text{Al}_2\text{Ga}_3\text{O}_{12}$ single crystal scintillators
- P12. Masanori Koshimizu
Development of Ce-doped GAGG nanoparticle scintillators using sol-gel method
- P13. Renaud Valois
Development of new transparent ceramics for laser applications in the 1.7 – 2.7 μm window
- P14. Atsushi Sato
Development of plastic scintillators doped with silole-based aggregation-induced-emission phosphors for light yield improvement
- P15. Masanori Koshimizu
Development of thermoluminescent $\text{Li}_2\text{CaSiO}_4:\text{Tm}$ ceramics for neutron detection
- P16. Abbi Mullins
Dual-emission luminescence thermometry using $\text{LaGaO}_3:\text{Cr}^{3+}$, Nd^{3+} phosphors
- P17. Milica Perić
EFFECT OF THE LEVEL DEGENERACY ON KERR NONLINEARITY IN THREE-LEVEL LADDER-TYPE SYSTEM
- P18. Keleshek B. Zhangylyssov
Electron-hole trapping centers in alkaline earth metal sulfates with Mn impurity
- P19. Mateusz Pieprz

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ENHANCEMENT OF Nd³⁺ EMISSION THROUGH Cr³⁺ → Nd³⁺ ENERGY
TRANSFER IN La₃Ga₅GeO₁₄: Nd³⁺, Cr³⁺

P20. Luidgi Giordano

Enhancement of red upconversion in NaBiF₄:Yb,Er(Ho) by Ce³⁺ co-doping

P21. Vesna Lazic

EPR STUDY OF CHARGE TRANSFER COMPLEX BETWEEN TiO₂ AND NON-
AROMATIC LIGAND SQUARIC ACID

P22. Andrei Racu

EVALUATION OF SITE SYMMETRIES OF Er³⁺ DOPED CaF₂ AND BaF₂
CRYSTALS BY HIGH RESOLUTION PHOTOLUMINESCENCE
SPECTROSCOPY

P23. Nevena Celic

FABRICATION OF ZnO/SnO₂ NANOCOMPOSITES FOR EFFICIENT WATER
REUSE

P24. Zeljka Nikitovic

FOUR WAVE MIXING (FWM) IN ALKALI ATOM VAPORS

P25. Naomoto Hayashi

Growth of Er-doped La₂Hf₂O₇ Single Crystal by Micro-Pulling-Down Method and
Optical Properties

P26. Jelena Pajovic

Hybrid metal nanostructures as photodynamic therapy agents: the case of riboflavin-
functionalized gold nanoparticles

P27. Nando Gartmann

Indications for Local processes in SrAl₂O₄:Eu²⁺, Dy³⁺: Fitting of the Luminescence
Decay

P28. Vadim Yu. Zhmykhov

JUDD-OFELT PARAMETERS OF SINGLE CRYSTALS OF THE BaF₂ - SrF₂ - ErF₃
SOLID SOLUTIONS

P29. João Gonçalves

LASER-INDUCED PHOTOCATALYTIC HYDROGEN PRODUCTION OF
La_{0.25}Nd_{0.75}AlO₃ IN METHANOL

P30. Verena Fritz

Lost in the heat of the moment: bringing losses in persistent phosphors to light with a
set of thermoluminescence measurements

P31. Jovana Periša

MgAl₂O₄:Cr³⁺ probe for luminescence thermometry in the physiological temperatures
range

P32. Katarina Milenkovic

ENHANCEMENT OF Eu³⁺ EMISSION INTENSITY IN LaPO₄/Ag
NANOPARTICLES

P33. Bojana Milicevic

HYDROTHERMAL SYNTHESIS AND PROPERTIES OF Yb³⁺/Tm³⁺ DOPED
Sr₂LaF₇ UPCONVERSION NANOPARTICLES

P34. Sanja Kuzman

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- Multiple temperature readings from $\text{Ca}_6\text{Ba}(\text{PO}_4)_4\text{O}:\text{Mn}^{5+}$ steady-state near-infrared emission in a physiological temperature range
- P35. Nikola Cichočka
MICROWAVE DRIVEN HYDROTHERMAL GROWTH OF $\text{Eu}^{3+}/\text{Ce}^{3+}$ DOPED $\text{Y}_3\text{Al}_5\text{O}_{12}$ NANOPOWDERS - OPTICAL AND STRUCTURAL CHARACTERIZATION
- P36. Anastasiia Babkina
 $\text{Mn}^{4+}/\text{Mn}^{2+}$ conversion in alkali-zinc-germanate glass-ceramics
- P37. Alexandra Nicolae-Maranciuc
NANOPARTICLES SIZE DISTRIBUTION ASSESSMENT BY DIRECT OPTICAL PARTICLE TRACKING
- P38. Thimo S. Jacobs
NANOSCALE SENSING OF TEMPERATURE DURING CATALYTIC REACTIONS IN A BROAD TEMPERATURE RANGE
- P39. Mirijam Lederer
Novel thermal decomposition syntheses route of Ln^{3+} -doped LaF_3
- P40. Akito Watanabe
Optical and scintillation properties of a tetraphenylethylene crystal exhibiting aggregation-induced emission
- P41. Teresa Delgado
PERSISTENT LUMINESCENCE NANOPARTICLES FOR BIMODAL BIOIMAGING IN THE NIR-I / II TRANSPARENCY WINDOW
- P42. Celina Matuszewska
PERSISTENT LUMINESCENCE OF UNDOPED ZINC GALLOGERMANATES
- P43. Hannah Byron
PHOTOCHROMIC SODALITE MIXES FOR ADVANCED RADIATION SENSING APPLICATIONS
- P44. Vesna Đorđević
PHOTOLUMINESCENT PROPERTIES OF THE Eu^{3+} ION IN YNbO_4 - LuNbO_4 SOLID SOLUTION
- P45. Mina Medić
DUAL-ACTIVATED LUMINESCENCE INTENSITY RATIO THERMOMETRY IN $\text{Y}_3\text{Al}_5\text{O}_{12}$ NANOCRYSTALS
- P46. Tamara Gavrilovic
THERMAL HISTORY MEASUREMENTS USING THE RATIO OF ${}^5\text{D}_0 \rightarrow {}^7\text{F}_1$ AND ${}^5\text{D}_0 \rightarrow {}^7\text{F}_2$ Eu^{3+} EMISSIONS
- P47. Milena Simić
Population Control of the Five-Level V-System by the Laser Interaction
- P48. Guna Doke
RED AND NIR PERSISTENT LUMINESCENCE OF MAGNESIUM GERMANATE BASED MATERIALS
- P49. Karina Fonseca
Red persistent luminescent nanofibers: a flexible and water-stable composite prepared by electrospinning
- P50. Aleksandr Litvin

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ROOM TEMPERATURE DOPING OF PEROVSKITE NANOCRYSTALS AND
NANOPLATELETS WITH NIR-EMITTING LANTHANIDE IONS

P51. Danijela Danilovic

Silver bismuth iodide rudorffites as potential lead-free hybrid photovoltaic materials

P52. Luis Andrade

SYNTHESIS AND CHARACTERIZATION OF Tb³⁺ INCORPORATED AT Ag@PVP
AND Tri-Ag-Citrate NANOPARTICLES

P53. Nina Kozlova

SPECTROPHOTOMETRIC TECHNIQUES FOR STUDYING THE PROPERTIES
OF OPTICAL MATERIALS

P54. Aleksandra Strinic

Stability of necklace beams in media with cubic-quintic nonlinearity

P55. Elena Dobretsova

STRUCTURAL FEATURES OF THE BIXBYITE-TYPE YTTRIUM SCANDATE:
X-RAY POWDER DIFFRACTION AND MICRO-RAMAN SPECTROSCOPY

P56. Daria Belikova

STRUCTURE, OPTICAL AND SCINTILLATION PROPERTIES OF HYBRID
BROMOCUPRATES (I) BASED ON METHYLAMMONIUM AND
FORMAMIDINIUM CATIONS

P57. Radoš Raonić

SYNTHESIS AND CHARACTERIZATION OF (Y,Me)NbO₄:Er,Yb PHOSPHORS:
INFLUENCE OF LOCAL LATTICE DISORDERS

P58. Maja Szymczak

SYNTHESIS AND SPECTROSCOPIC PROPERTIES OF Cr³⁺ IONS DOPED
Li₂Mg₃TiO₆ NANOCRYSTALS

P59. Luis Andrade

Synthesis with plant extract of Tb³⁺ -doped CaMoO₄ nanocrystals for luminescent
thermometric sensor

P60. Kuanyshbek Shunkeyev

The effect of instability of KCl:Na single crystals

P61. Luis Andrade

THE INFLUENCE OF REABSORPTION EFFECT ON THE FIR
THERMOMETRIC PARAMETERS IN Nd³⁺- DOPED LITHIUM TELLURITE
GLASSES

P62. D. Petrova

THE PHOTOLUMINESCENT AND ELECTRICAL PROPERTIES OF Al-DOPED
ZnO THIN FILMS

P63. Douglas Fritzen

Transparent Films Featuring Persistent Luminescence

P64. Yannick GUYOT

VISIBLE AND MID-INFRARED EMISSION PROPERTIES OF Pr³⁺ AND Tm³⁺
DOPED BGO SINGLE CRYSTAL FIBERS

P65. Maria Batista

Zinc gallogermanate nanoparticles produced by pulsed laser ablation in liquid media
aiming biomedical applications

The 6th International Conference on the Physics of Optical Materials and Devices
AND

The 5th International Workshop of Persistent and Photostimulable Phosphors (IWPPP-5)
Belgrade, Serbia, 29th of August to 2nd of September 2022

P66. Julian Weiss

First spectroscopic investigation of $M(\text{AlCl}_4)_2:\text{Sm}^{2+}$ ($M = \text{Ca}, \text{Sr}, \text{Ba}$) – Influence of the local site symmetry on the luminescence of Sm^{2+}

P67. Fazlizhanov I.I.

CRYSTAL FIELD EFFECTS ON MN IONS IN DOUBLE PEROVSKITE
 $\text{Sr}_2\text{MnTiO}_6$

P68. Rushana Eremina

The CW EPR and pulsed EPR studies of the $^{51}\text{V}^{4+}$ ions in $\text{Sc}_2^{28}\text{SiO}_5$

P69. J. Mitrić

STRUCTURAL PROPERTIES OF FEMTOSECOND LASER IRRADIATION
INDUCED BISMUTH OXIDE BASED NANO – OBJECTS IN $\text{Bi}_{12}\text{SiO}_{20}$ (BSO)
SINGLE CRYSTAL

P70. Niko Flosbach

HIGH PRESSURE SYNTHESIS OF PRASEODYMIUM SILICATES

P71. K. Maciejewska

Multifunctional $\text{NaYF}_4:\text{Nd}^{3+}, \text{Cr}^{3+}$ nanoparticles for luminescence thermometry and optical heating applications