**CONFERENCE PROGRAM**

**The 7th International Conference on the Physics of Optical Materials and Devices (ICOM2024)**

**AND**

**The 4th International Conference on Phosphor Thermometry (ICPT2024)**

**August 26th to 30th, 2024**

**Budva-Bečići, Montenegro**

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| **Sunday, August 25th, 2024** | |
| **Hotel Mediteran (Convention center)** | |
| **16.00-20.00** | **Registration (Convention center)** |

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| **Monday, August 26th, 2024** | | | | | |
| **8.00-16.00** | **Registration (Convention center)** | | | | |
| **9.00-09.15** | **Opening Ceremony**  Chairpersons - Ž. Antić, B. Viana, M. Dramićanin  Co-chair – Frank Beyrau | | | | |
| **Session 1: 9.15-10.30**  *Session chair: F. Beyrau* | | | | | |
| **09.15-09.50** | Keynote lectureP.Dorenbos *How to engineer lanthanide luminescence quenching temperature and lanthanide charge carrier trap depths in compounds* | | | | |
| **09.50-10.15** | Invited lectureM. Ivanov *Rare-earth doped sesquioxide nanophosphors made by laser synthesis* | | | | |
| **10.15-10.30** | Invited lectureB.Fond *High resolution thermometry in fluid flows based on imaging isolated submicron phosphor particles* | | | | |
| **10.30-11.00** | **Coffee Break** | | | | |
| **Session 2: 11.00-12.30**  *Session chair: P. Dorenbos* | | | | | |
| **11.00-11.35** | Keynote lectureI.Tanaka *Recommender System for the Discovery of New Inorganic Compounds* | | | | |
| **11.35-12.00** | Invited lecture R.Marin *Extending the reach of luminescence sensing: 3D thermal mapping* | | | | |
| **12.00-12.15** | S. Som *Highly Efficient Deep Red-Emitting Mn4+ Phosphors for Enhanced Plant Growth and Advanced Optical Thermometry* | | | | |
| **12.15-12.30** | B. Bendel *Distance control of non-radiative transitions to design luminescent thermometers* | | | | |
| **12.30-14.30** | **Break** | | | | |
| **Parallel Sessions 3, 4 and 5: 14.35-16.00** | | | | | |
|  | **3 Amphitheatre**  *Session chair: I. Tanaka* | **4 Amphora**  *Session chair: B. Fond* | | **5 Galerija**  *Session chair: R. Marin* | |
| **14.35-15.00** | Invited lecture C. Winters *Dynamic Testing with Thermographic Phosphor Digital Image Correlation* | Invited lectureD.Kulesza *Pushing the limits: The 25-1225 K Wide Range Garnet Luminescence Thermometers* | | Invited lectureY. Li *Near-infrared persistent luminescence phosphors* | |
| **15.00-15.15** | A. Kabański *Imidazolium-based double perovskites containing Cr3+ ions for highly sensitive luminescent thermometry* | S. Hirsch *2D surface phosphor thermometry in a shallow boiling water channel* | | K. Bogdanov *Active microresonators with whispering gallery modes: morphological features and potential applications* | |
| **15.15-15.30** | V. Utochnikova *Lanthanide-based luminescent thermometer: from fundamentals to the prototype* | O. Le Bourgeois *Simultaneous temperature and pressure imaging in aerodynamics research combining luminescent metal complexes and thermographic phosphors* | | M. Adaszyński *The novel, inorganic LED phosphor based on Ce3+ and Cr3+ doped silicates* | |
| **15.30-15.45** | P. Varak *Near-infrared photo- and radioluminescence of rare-earth-doped glass-ceramics based on Zn2SiO4* | T. Cai *A novel fluid density matched temperature-sensitive phosphorescent particle for simultaneous measurement of temperature and velocity* | | M. Buryi *Influence of the facet of ZnO on the cesium lead bromide attaching abilities in a heterostructure* | |
| **15.45-16.00** | A. Vanetsev *The relation between crystallinity and luminescent properties in lutetium phosphate nanoparticles* | B.Fond *Dual-phosphor thermometry to probe the flame particle interaction in a model packed bed* | | M. Motyka *Optical properties of InAs/GaSb and InAs/InAsSb type-ii multi quantum wells for mid-infrared optoelectronics applications* | |
| **16.00-16.30** | **Coffee Break** | | | | |
| **Parallel Sessions 6 and 7: 16.30-18.00** | | | | | |
|  | **6 Amphitheatre**  *Session chair: M. Ivanov* | | **7 Amphora**  *Session chair: C. Winters* | | **Galerija** |
| **16.30-16.45** | K. Bartosiewicz *From fundamental insight to property control in Tb2YxAl5O12:Ce (x= 1 and 0.1) garnets via nonstoichiometric engineering: impacts on structure, defects, photoconversion, luminescence and scintillation properties* | | A. Mendieta *Simultaneous online phosphor thermometry and digital image correlation (DIC) during metal formability testing* | | REMTES Project Workshop |
| **16.45-17.00** | K. Omuro *Crystal Growth and Optical Properties of Ce-doped (Lu, Tb)3(Al, Ga)5O12 Scintillators for X-ray Imaging* | | T. Naillon *Visible/NIR luminescence for nanothermometry with transition metal doped oxides nanoparticles* | |
| **17.00-17.15** | V. Jary *Scintillation properties of Zn2SiO4 nanoparticles in Na2O-ZnO-SiO2 glass system: Toward a distributed sensor of harmful radiation* | | R. Vogel *Operando Luminescence Thermometry of Propane Dehydrogenation Catalysis* | |
| **17.15-17.30** | Y. Urano *Development of Tl:Cs3(Cu, Li)2I5 Scintillator Crystals for Neutron and Gamma-ray Dual Detection* | | M. Li *YAG:Dy co-doped with Tb for lifetime-based phosphor thermometry from room temperature to 1600℃* | |
| **17.30-17.45** | K. Kamada *Effects of refractive index and grain size on scintillator properties of thermal neutron scintillator* | | W. Cheng *A phase transformation–phosphorescence model of YSZ:Eu and its application in two-dimensional thermal history measurement* | |
| **17:45-18.00** | S. Kursawa *Development of Garnet-type Scintillation Crystal with Infrared Emission Band for the Dose-Rate Sensor with Optical Fiber* | | T. Cai *Three-dimensional surface temperature measurement utilizing lifetime-based phosphor thermometry* | |
| **19.30-19.45**  **19.45-21.00** | **CONFERENCE PHOTO**  **WELCOME PARTY** | | | | |

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| **Tuesday, August 27th, 2024** | | | | |
| **8.00-16.00** | **Registration (Convention center)** | | | |
| **Session 8 (Amphitheatre): 9.00-10.30**  *Session chair: H. Brault* | | | | |
| **9.00-9.35** | Keynote lecture M. Suta *Selection rules of non-radiative transitions and their consequences for luminescent materials* | | | |
| **9.35-10.00** | Invited lectureD. Witkowski *From demonstration to application: Considerations for high-speed phosphor thermometry in high transient heat flux environments* | | | |
| **10.00-10.15** | K. Hingerl *Can Imaging Ellipsometry Beat the Diffraction Limit?* | | | |
| **10.15-10.30** | A. Lushchik *Detection of radiation-induced frenkel defects in functional metal oxides via optical and EPR methods* | | | |
| **10.30-11.00** | **Coffee Break** | | | |
| **Session 9 (Amphitheatre): 11.00-12.30**  *Session chair: M. Suta* | | | | |
| **11.00-11.35** | Keynote lecture H. Brault *Luminescent Coordination Polymers or MOFs as Temperature Sensors* | | | |
| **11.35-12.00** | Invited lecture M. Brik *Transition metal ions for lighting and thermometry - theoretical modeling* | | | |
| **12.00-12.15** | Z. Ristić *Machine learning assisted thermometry of Mn5+ doped Ca6Ba(PO4)4O phosphor* | | | |
| **12.15-12.30** | G. Sutton *Thermal profiles of electrically heated In718 alloy samples using imaging intensity ratio (IR) phosphor thermometry* | | | |
| **12.30-14.30** | **Break** | | | |
| **Parallel Sessions 10 and 11: 14.35-16.00** | | | | |
|  | | **10 Amphitheatre**  *Session chair: D. Witkowski* | **11 Amphora**  *Session chair: D. Kulesza* | **Galerija** |
| **14.35-15.00** | Invited lecture V. Castaing *Persistent phosphor thin films: processing and optical environment matter* | | Invited lecture K. Boldyrev *High-resolution spectroscopy for luminescence cryothermometry and magnetic field sensing* | REMTES Project Workshop |
| **15.00-15.15** | T. Yamamoto *Phase Stability and Electronic Structure of Tri-Halide Perovskites* | | M. Stelter *Towards thermographic Shake-The-Box: Combined three-dimensional flow thermometry and velocimetry using thermographic phosphors* |
| **15.15-15.30** | T. Förster *Design strategies for blue-to-uv upconversion phosphors with Pr3+* | | R. Jankowski *Molecular frameworks built of luminescent ruthenium(ii) polycyanidometallates for optical thermometry* |
| **15.30-15.45** | L. Träger *Mn2+ as a local luminescent probe for unusual ligand field effects* | | M. Wyczesany *Polycyanidometallates as effective tools for modulating europium(III)-terbium(III)-based optical thermometry* |
| **15.45-16.00** | G. Kinik *A real competitor to classic ruby: Photoluminescence properties of Cr3+-activated AlB4O6N* | | P. Bonarek *Experimental and theoretical studies on the application of dicyanidoplatinates(II) as optical thermometers* |
| **16.30-18.30** | **POSTER SESSION & Coffee Break** | | | |

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| **Wednesday, August 28th, 2024** | | |
| **8.00-10.00** | **Registration (Convention center)** | |
| **Session 12 (Amphitheatre): 9.00-10.30**  *Session chair: L. Carlos* | | |
| **9.00-9.35** | Keynote lecture A. Meijerink *Lanthanides working together* | |
| **9.35-10.00** | Invited lecture A. Ciric *Sensor fusion luminescence thermometry* | |
| **10.00-10.15** | E. Zych *How Pr3+-doped luminescent thermometers shine - exploring their bright sides and boundaries* | |
| **10.15-10.30** | S. Jobic *Topochemistry to the rescue for generating new host matrices for luminescent materials: a study of oA-La2O2S (Ln= Ce, Eu, Pr)* | |
| **10.30-11.00** | **Coffee Break** | |
| **Session 13 (Amphitheatre): 11.00-12.30**  *Session chair: A. Meijerink* | | |
| **11.00-11.35** | Keynote lecture L. Carlos *Water's Hidden Density Dance* | |
| **11.35-12.00** | Invited lecture F. Rabouw *Photonic Effects on Lanthanide Luminescence* | |
| **12.00-12.15** | G. Lozano *Designed optical environments to tailor the emission on nanophosphor thin films* | |
| **12.15-12.30** | S. Perruchas *Luminescence mechanochromism of hybrid copper iodide materials* | |
| **12.30-14.35** | **Break** | |
| **Parallel Sessions 14 and 15: 14.35-16.00** | | |
|  | **14 Amphitheatre**  *Session chair: F. Rabouw* | **15 Amphora**  *Session chair: A. Ćirić* |
| **14.35-15.00** | Invited lecture D. Van der Heggen *Persistent phosphors enabling the study of uncommon divalent lanthanides* | Invited lecture M. Ramirez *Tailoring the optical properties of 2D materials via ferroelectric substrates* |
| **15.00-15.15** | V. Fritz *Persistent Phosphors for Outdoor Applications: Bridging the gap between models and real-world conditions* | J. Miller *The behavior of La2O2S:Eu as a function of excitation duration* |
| **15.15-15.30** | M. Romero Aguilar *Rationalizing persistent luminescence: Getting into the processes* | S. Chorazy *Cyanido metal complexes for advanced solids linking non-linear optics with photoluminescence* |
| **15.30-15.45** | H. Kai *Study on the Photoluminescence and Persistent Luminescence in the Rhombohedral Pyrochlore M1.99Mn0.01La3Sb3O14 (M = Mg, Zn, Ca, Mn)* | M. Szymczak *Optical pressure sensors utilizing the 4T2g → 4A2g electronic transition of Cr3+ ions* |
| **15.45-16.00** | M. Zhao *Interstitial Sodium-Stabilized Divalent Europium in Lu2SiO5 and Green Persistent Luminescence* | G. Sutton *Spectral optimisation of intensity ratio phosphor thermometry for Mg4FGeO5.5:Mn (MFG)* |
| **18.00-00.30** | **BOAT CRUISE AND CONFERENCE DINNER PARTY** | |
| **~18.30 Boarding buses (the exact time will be announced)**  **20.30-23.30 Boat cruise around the Kotor Bay and Conference dinner**  **00.30 Return to the hotel** | | |

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| **Thursday, August 29th, 2024** | | |
| **8.00-10.00** | **Desk open (Convention center)** | |
| **Session 16 (Amphitheatre): 9.00-10.30**  *Session chair: Z. Xia* | | |
| **9.00-9.35** | Keynote lecture S. Tanabe *NIR Persistent luminescence of Er3+ in REAGG phosphors and their thermometric properties* | |
| **9.35-10.00** | Invited lecture G. Chen *Size-Dependent Lanthanide Energy Transfer Amplifies Upconversion Luminescence Quantum Yields* | |
| **10.00-10.15** | J. Nedeljković *TiO2-based interfacial charge transfer complex with dihydroquercetin: Optical properties and reactivity of photogenerated species* | |
| **10.15-10.30** | D. Alves Galico *Magneto-optical thermometry with lanthanide(III) complexes* | |
| **10.30-11.00** | **Coffee Break** | |
| **Session 17 (Amphitheatre): 11.00-12.30**  *Session chair: S. Tanabe* | | |
| **11.00-11.35** | Keynote lecture Z. Xia *Near-infrared luminescent materials and their light sources applications* | |
| **11.35-12.00** | Invited lecture J. Ueda *Development of Hole Detrapping Persistent Phosphors* | |
| **12.00-12.15** | K. Szczecinska *Cadmium(ii)-iridium(iii) coordination chains as chiral luminophores for sensing of organic solvents* | |
| **12.15-12.30** | Y. Wang *Ratiometric Fluorescence Optical Fiber Enabling In-situ and Real-time Temperature Monitoring* | |
| **12.30-14.30** | **Break** | |
| **Parallel Sessions 18, and 19: 14.30-16.00** | | |
|  | **18 Amphitheatre**  *Session chair: G. Chen* | **19 Amphora**  *Session chair: J. Ueda* |
| **14.30-14.55** | Invited lecture C.-Geng Ma *Unraveling luminescence behavior of 3d³ ions in solids: Navigating from crystal-field theory to first-principles analysis* | Invited lecture C. Latouche *Modeling Excited States in Solids: Advancing Accurate Simulation of Luminescence Spectra* |
| **14.55-15.10** | Y. Abe *Temperature dependence of luminescence characteristics for (Y, Lu, Sc)2O3 single crystal* | F. Gennari *Spectroscopic Properties of Nd3+ Doped Sr2LaF7 Nanoparticles* |
| **15.10-15.25** | T. Runka *Raman and high-resolution luminescence spectroscopy of Re doped Gd1-xLuxAlO3 single crystalline films* | Y. Zhydachevskyy *Possibilities of tuning of Mn4+ and Cr3+ luminescence in Ga2O3 by alloying with Al2O3 and In2O3* |
| **15.25-15.40** | T. Horiai *Investigation of Sc2O3 Single Crystal for Luminescence Thermometry* | A. Racu *Correlations of local symmetry with stark splitting of energy levels in lanthanides doped Y2O3 sesquioxide* |
| **15.40-15.55** | M. Yoshino *Growth and scintillation properties of Ce3+, Pr3+, and Mg2+ co-doped Lu3Al5O12 single crystals* | M. Liberka *Synchronous switching of electrical and optical properties in organic-inorganic hybrids* |
| **15.55-16.10** | J. Wang *Synthesis, Stability and Application of All-inorganic Perovskite Metal Halide Luminescent Materials for Information Display and Detection* | B. Lou *Understanding the Excited State Properties and the Luminescence Mechanisms of ns2 Type Ion Doped Phosphors: A First-Principles Study* |
| **16.10-16.30** | **Coffee Break** | |
| **Session 20 (Amphora): 16.30-18.00**  *Session chair: M. Brik* | | |
| **16.30-17.05** | Keynote lecture B. Hadžic *Influence of Laser-Generated Heat on the Characteristics of Individual Crystals and Nano-powders* | |
| **17.05-17.30** | Invited lecture M. Piasecki *Influence of Orbital Hybridization on the Intensity of the Hypersensitive Transition and Nonlinear Optical Efficiency in RE Activated Compounds* | |
| **17.30-17.45** | F. Zajíc *First active afterheater used in laser-diode floating zone method* | |
| **17.45-18.00** | L. Puntus *Charge transfer states in lanthanide complexes containing effective light harvesting pi-bonded antenna ligands* | |

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| **Friday, August 30th, 2024** | | |
| **8.00-9.00** | **Desk open (Convention center)** | |
| **Parallel Sessions 22 and 23: 9.00-10.15** | | |
|  | **21 Amphitheatre**  *Session chair: M. Piasecki* | **22 Amphora**  *Session chair: A. Suchocki* |
| **9.00-9.15** | L. Aldaz Caballero *The role of size and composition in pressure-sensitivity of CuInS2 QDs* | D. Alves Galico *Lanthanide molecular cluster-aggregates as the next generation of optical materials* |
| **9.15-9.30** | M. Lalic *Electronic, optical, and photovoltaic properties of the orthorhombic NaBiS2 compound: a highly perspective photoferroic material* | S. Nedilko *Optical properties of hybrid „polymer - oxide - carbon nanotubes“ composites* |
| **9.30-9.45** | A. Benayas *Combining Luminescence with Indium-Tin Oxide Nanoparticles as Heating Actuators* | D. Koçyiğit *Influence of alkaline earth fluorides on structural and photoluminescence properties of oxyfluoride glasses* |
| **9.45-10.00** | A. Mandowski *Monte carlo calculations for the excitation. A consequence for TL/OSL phenomena and the dose rate effect* | J. Hrabovsky *Linear and non-linear optical and magneto-optical properties of pure and multicomponent tellurite glasses* |
| **10.00-10.15** | D. Kruczek *Emissive Cerium(III)-Platinum(II) Single-Molecule-Magnets sensitive to solvent vapors* | B. Lei *Cr3+-doped near-infrared emitting phosphors for plant-factory lighting applications* |
| **10.15-10.45** | **Coffee Break** | |
| **Session 23 (Amphitheatre): 10.45-12.25**  *Session chair: Z. Ristić* | | |
| **10.45-11.10** | Invited lecture Y. Zorenko *Recent advancement in development of composite color converters based on epitaxial structures of Ce3+ doped garnet compounds* | |
| **11.10-11.35** | Invited lecture A. Suchocki *Mechanoluminescence of LiTaO3:Pr and related materials* | |
| **11.35-12.00** | Invited lecture M. Quintanilla *Plasmonic Heating Within the Biological Windows* | |
| **12.00-12.30** | **Closing Ceremony** | |

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| **LIST OF POSTER PRESENTATIONS** |
| 1. C. Nechifor *BSA biosensing platform with liquid crystals anchored on physically modified PVA substrate* |
| 1. C. Nechifor *Liquid crystals alignment on mechanically modified substrate obtained from irradiated pva solutions* |
| 1. C. Nechifor *induced birefringence of thin foils obtained from UV irradiated poly (vinyl alcohol) solutions* |
| 1. V. Andonova *Optical properties and chemical composition of hemp oil* |
| 1. I. Medvid *Spectral studies of B2O3 - ZnO – SrO – CaO glasses doped with Dy 3+ ions for white light emission applications* |
| 1. L. Dong *Spectra control of europium-doped calcium silicate through topochemical reduction strategy for white LED application* |
| 1. J. Miller *An approach to the determination of the number of exponential decays present in a decay curve* |
| 1. B. Viana *Strontium Aluminate and Garnets Persistent Luminescent Single Crystals* |
| 1. B. Viana *Tm:CALGO: Spectroscopy and laser results at 2.3 µm* |
| 1. A. Kislov *Localized vibrations in photoluminescence spectra of iron-doped* ZnO |
| 1. A. Zatsepin *Luminescense of nanoparticles and quantum dots in Zn-implanted silica layers* |
| 1. A. Kenzhebayeva *The role of the light lithium ion in the formation of high-temperature peaks of thermally stimulated luminescence in NaCl crystals* |
| 1. T. Koikawa *Up-Conversion Luminescence from Ca2SnO4:Er* |
| 1. Y. Shimazaki *Effect of rare earth co-doping on UC luminescence intensity in CaSnO3:Er* |
| 1. L. Oster *Kinetic modeling of charge transfer following photon bleaching of irradiated LiF:Mg,Ti* |
| 1. V. Pankratov *Fine structure of absorption and excitation spectra of 4f-5d transitions in MeF2:Ln, Yb 3+ crystals (Me = Ca, Sr, Ba; Ln = Dy 3+, Er 3+)* |
| 1. R. Kawabata *Growth, scintillation properties, and pulse shape discrimination capability of (Ca, Mg)I2 scintillator* |
| 1. P. Costa *Real-Time Monitoring of CdTe Quantum Dots Growth* |
| 1. J. Llanos *Enhancing c-Si Solar Cell Efficiency in the UV Region: Using Eu³⁺ as a Down-Shifting Layer* |
| 1. N. Kaplan *A novel approach of microcontroller-based transverse magneto-optical Kerr effect measurement system* |
| 1. J. Pisarska *Germanate olivines: fabrication and luminescence measurements in the visible and near-infrared ranges* |
| 1. W. Pisarski *Luminescence in Yb 3+-doped titanate-germanate glass* |
| 1. J. Barzowska *Impact of Manganese Co-doping on the Luminescent and Mechanoluminescent Properties of SrSi2N2O2:Eu2+* |
| 1. A. Babkina *Luminescent properties of alkali-germanate glasses with CdS quantum dots* |
| 1. A. Babkina *Luminescent properties of silver ion exchange layers of silicate glasses* |
| 1. K. Nikolov *Phosphorescent fibre optic tip temperature sensor* |
| 1. K. Nikolov *Wavelength referenced polarimetric fibre optic current sensor with smartphone interrogation* |
| 1. K. Nikolov *Rare earth doped strontium aluminates for contactless smartphone readable temperature sensors* |
| 1. M. Seabra *Red mud as colouring agent for stoneware pastes* |
| 1. N. Cichocka *Optical and structural properties of Eu3+ doped La3Al5O12 grown by microwave-driven hydrothermal technique* |
| 1. J. Nasalska *Temperature and pressure dependent emission of mixed Eu 3+ and Tb 3+ coordination compounds with N-phosphorylated carboxamide* |
| 1. K. Boldyrev *Photon-induced effects on color centers of diamonds* |
| 1. H. Dziełak *Heterometallic lanthanide-pentacyanidocobaltate frameworks as NIR-emissive and SHG-active stimuli-responsive solids* |
| 1. M. Tamashuk *Photoluminescent coordination polymers based on bipyridine-cyanido ruthenates(II) and f-block metal complexes* |
| 1. P. Gas *Heterometallic decanuclear copper(I)-rhenium(V)* *clusters exhibiting efficient tunable luminescence* |
| 1. M. Romanowska *Ab initio evaluation of optical properties in lanthanide(III)-based luminescent materials: multiconfigurational and TDDFT approaches* |
| 1. M. Niemiec *Chromium(III)-centered spin-flip luminescence in heterometallic hybrid materials for the construction of optical sensors* |
| 1. C. Kiss *Temperature dependence of the excitation and emission spectra in Cs2SnCl6 activated by Sb3+ and Bi3+* |
| 1. I. Machado *Nd3+,Yb3+,Tm3+ triply-doped LiLuF4 nanothermometers fully operating in the near-infrared range* |
| 1. S. Cherevkov *Application of amphiphilic acetylacetone-based carbon dots in light emission diodes* |
| 1. D. Popstoyanova *Bioactive components in the leaves of moringa oleifera and their excitation-emission matrices* |
| 1. D. Popstoyanova *Fluorescence from organic dyes induced by а light-emitting-diode for application in excitation-emission fluorescence spectroscopy* |
| 1. D. Popstoyanova *Application of fluorescence spectroscopy and chemical analyses for the characterization of fruits from european plum (prunus domestica L.) varieties* |
| 1. D. Popstoyanova *Sensing of physiological reactions of ferritin with dielectric metasurfaces* |
| 1. N. Reichholf *Optical properties of lanthanide-doped zirconia core/shell nanoparticles* |
| 1. V. Nikšić *A DFT study of interfacial charge transfer complexes between TiO2 and a series of flavonoid compounds* |
| 1. M. Maričić *Luminescence of Eu doped material incorporated into PMMA fiber* |
| 1. L. Đačanin Far *Improving sensitivity of luminescence thermometry with YNbO4:Sm 3+ by exploiting emission from high energy 4G7/2 excited level* |
| 1. V. Đorđević *Exploring Luminescence Thermometry Using Principal Component Analysis: Insights from Pr3+ -Doped YF3* |
| 1. T. Gavrilovic *Effect of Eu3+ doping on structure transitions in Y2Mo3O12:Eu3+ and its application as temperature sensing probe* |
| 1. K. Milenković *Microwave-assisted solvothermal method for RbY3F10 doped with Eu3+* |
| 1. S. Kuzman *Synthesis and photoluminescent properties of Bi 3+-codoped SrF2:Eu 3+ phosphor nanoparticles* |
| 1. J. Periša *Advancing luminescence thermometry: Employing multiple fluorescence intensity ratios of Y3Al5O12:Er3+/Mn4+ nanocrystals for supersensitive temperature sensing* |
| 1. B. Milićević *Synthesis, luminescent properties, and thermal stability of Eu3+-doped Sr2GdF7 red-emitting nanophosphor for horticulture LEDs* |
| 1. I. Zeković *Temperature stability of luminescent Eu 3+-activated Sr2GdF7 colloid incorporated in PVA fiber* |
| 1. M. Medić *Synthesis and luminescent properties of Pr3+-doped Sr2LaF7 phosphor nanoparticles* |
| 1. A. Rajčić *Synthesis, structure, and luminescent properties of Eu3+ doped BaIn2O4 powders* |
| 1. H. Wen *Highly water-soluble and biocompatible hyaluronic acid functionalized upconversion nanoparticles as ratiometric nanoprobes for label-free detection of nitrofuran and doxorubicin* |
| 1. W. Zhao *Ultra-broadband near-infrared emission in perovskite-like Mg4Sb2O9:Cr 3+ phosphors* |
| 1. M. Szymczak *Luminescence manometry based on Ni2+ ions emission* |
| 1. A. Lipa *Structural, spectroscopic and magnetic properties of trinuclear Ln3+ coordination compounds with a carboxamide derivative* |
| 1. M. Ćurčić *Phonon properties of nanodimensional Cr2O3 thin films* |
| 1. J. Mitrić *Plasmon-Phonon interaction and Surface Optical Mode in Cd1-xFexTe1-ySey Single Crystals* |
| 1. M. Salgado de Nichile Saula *Addressing trap depth and distribution in novel Li2ZnSn3O8:Dy 3+ stannate materials for improvement application of their persistent luminescence* |
| 1. L. Saraiva *The more the better: Multiparametric data analysis enhances the performance of EuIII-based thermometers* |
| 1. L. Gotardo Merizio *Light-element based materials for persistent luminescence and photochromic applications* |
| 1. I. Kenzhina *Effect of Ca dopant concentration on the variation of optical properties of ZrO2 ceramics with great prospects in the field of solid oxide fuel cells* |
| 1. A. Kozlovskiy *Variability of the phase composition of oxy-nitride ceramics and its influence on optical and thermophysical properties* |
| 1. T. Pier *Molten Salt Assisted Synthesis of Double Tungstates Towards Optimized Optical and Morphological Properties* |
| 1. G. Dima *Artificial intelligence used in prediction of 5d absorption of luminescent materials doped with Pr 3+ or Ce 3+ ions* |
| 1. J. Volf *Identification of oxidation states of Ce and Mn in luminescent boro-silicate glasses using a combination of EPR and XPS technique* |
| 1. J. Papan Djaniš *Luminescent nanomaterials from spruce biomass* |
| 1. M. Perić *Theoretical modeling of absorption and emission spectra of core/shell quantum dot* |
| 1. E. Mandowska *Energy distribution of trap levels in feldspars* |
| 1. V. Pankratova *Time-resolved luminescence properties of swift heavy ion irradiated cerium-doped Gd3Ga2Al3O12 single crystals* |
| 1. O. Lalinsky *From Ce3+ to Ce4+and back: harnessing defect engineering for enhanced cathodoluminescence in garnet scintillator*s |