Updated 11th Sept 2025

| Name | Insitution/Affiliation | Abstratct Title | Category | Code | Date/Time | Conference room |
|---|---|---|---|---|---|---|
| Ben L. Feringa | Univ. Groningen (Netherlands) | Light for Motion | Plenary | PL1 | Monday 13th Oct, am | Paraninfo (P) |
| Nazario Martín | Universidad Complutense de Madrid (Spain) | Facing the Energy Challenge: Perovskite Solar Cells | | PL2 | Monday 13th Oct, am | Paraninfo (P) |
| Laura Lechuga | ICN2, Cataloina (Spain) | Ultrasensitive, Multiplexed Nanophotonic Biosensors for Next-Generation Point-of-Care Applications | | PL3 | Monday 13th Oct, pm | Paraninfo (P) |
| Xiaogang Liu | National Univ. Singapur (Singapur) | Nanocrystals at Work: Unlocking the Power of Lanthanide Doping | | PL4 | Tuesday 14th Oct, am | Paraninfo (P) |
| Rebecca Abergel | University of California -LBNL- Berkeley (USA) | Coordination Control, Light Sensitization, and Radiation Targeted Delivery in Actinide Molecular Systems | | PL5 | Tuesday 14th Oct, pm | Paraninfo (P) |
| Jennifer Dionne | Univ. Stanford (USA) | Exploring light and life: Nanophotonics for scalable molecular sensing and sequencing | | PL6 | Wed 15th Oct, am | Paraninfo (P) |
| Luisa de Cola | Universiry of Milano (Italy) | Seeing, understanding and detecting with light | | PL7 | Wed 15th Oct, pm | Paraninfo (P) |
| Phillipe Goldner | CNRS - PSL University (France) | Rare Earth Doped Crystals for Integrated Quantum Photonics | | PL8 | Friday 17th Oct, am | Paraninfo (P) |
| Cherie R. Kagan | University of Pennsylvania (USA) | Colloidal Nanocrystal Materials and Optical Devices with Extraordinary Structures and Functions | | PL9 | Friday 17th Oct, am | Paraninfo (P) |
| Luis D. Carlos | Univ. Aveiro (Portugal) | Water's hidden density dance: from charged interfaces to protein dynamics | | PL10 | Friday 17th Oct, am | Paraninfo (P) |
| Marta M. Natile | National Research Council (Italy) | Exploring the rational design of upconverting nanocrystals through experimental and theoretical synergies | Keynote - Bio | KNB1 | Monday 13th Oct, am | Aula Polivalente (AP) |
| Andrea de Camargo | University of Jena / BAM (Germany) | Upconversion nanoparticles for chemical, physical and biological sensing: from functionalization to point of-care devices | | KNB2 | Monday 13th Oct, pm | Aula Polivalente (AP) |
| Gary Wong Ka-Leung | The Hong Kong Polytechnic University | Theranostic agents achieving PET-MRI fusion and photodynamic therapy | | KNB3 | Tuesday 14th Oct, am | Aula Polivalente (AP) |
| Daniel Jaque | Univ. Autónoma Madrid (Spain) | So far, so good: NIR imaging and sensing | | KNB4 | Tuesday 14th Oct, am | Paraninfo (P) |
| Carlos Flores | ITER - Tenerife (Spain) | Enabling large-scale genomics for precision medicine | | KNB5 | Tuesday 14th Oct, pm | Aula Polivalente (AP) |
| Bruno Viana | CNRS - PSL University (France) | Persistent luminescence nanoparticles for biosensors and bioimaging | | KNB6 | Wed 15th Oct, am | Aula Polivalente (AP) |
| Mónica Lira Cantú | ICN2, Cataloina (Spain) | Perovskite Solar Cells: Novel Nanomaterials for High Stability | Keynote - Energy/others | KNE1 | Monday 13th Oct, am | Paraninfo (P) |
| Emilio Palomares | ICIQ, Cataloina (Spain) | The Chemistry of Small Molecules for Energy Applications | | KNE2 | Monday 13th Oct, pm | Paraninfo (P) |
| Andries Meijerink | Utrecht University (Netherlands) | Photonic Effects in Luminescence Spectroscopy | | KNE3 | Tuesday 14th Oct, am | Paraninfo (P) |
| Gabriella Tessitore | Université de Laval (Quebec City, Canada) | Charge carriers dynamics in quantum dots: from modeling to applications | | KNE4 | Tuesday 14th Oct, am | Aula Polivalente (AP) |
| Oscar L. Malta | Universidade Federal de Pernambuco (Brasil) | Revisiting the mechanisms of non-radiative energy transfer in lanthanide materials | | KNE5 | Tuesday 14th Oct, am | Aula Polivalente (AP) |
| Guanying Chen | Harbin Institute of Technology (China) | The size effects on luminescence of lanthanide upconversion nanoparticles | | KNE6 | Tuesday 14th Oct, pm | Paraninfo (P) |
| Alberto Vomiero | Luleå Univ. of Technol. (Sweden)/ Univ. of Venice | Advanced nanostructures for solar energy harvesting | | KNE7 | Tuesday 14th Oct, pm | Paraninfo (P) |
| Muralee Murugesu | University of Ottawa (Canada) | Synthetic Methodologies for Developing Lanthanide-Based Molecular Magnetic and Optical Materials | | KNE8 | Wed 15th Oct, am | Paraninfo (P) |
| Bryce S. Richards | Karlsruhe Institute of Technology (Germany) | Broadband Spectral Conversion and Light Management for Next Generation Greenhouses | | KNE9 | Wed 15th Oct, am | Paraninfo (P) |
| Andrea Pickel | University of Rochester (USA) | Taking Luminescence Thermometry to Extremes for Device, Energy, and Catalysis Applications | | KNE10 | Wed 15th Oct, am | Paraninfo (P) |
| Jose Ramón Galán Mascarós | ICIQ, Cataloina (Spain) | SUPERVAL: A European project towards solar-powered waste to added value chemicals | | KNE11 | Wed 15th Oct, pm | Paraninfo (P) |
| Carlos Glez Montesdeoca | ITER - Tenerife (Spain) | A Simplified Architecture for Air-Processed Perovskite Solar Cells: Carbon-Paste Back Contacts and Pathways to Improved Efficiency | | KNE12 | Wed 15th Oct, pm | Paraninfo (P) |
| Riccardo Marin | Ca'Foscari University of Venice (Italy) | Cross-sensitivity in Luminescence Sensing: From Foe to Friend | Invited - Bio | IB1 | Monday 13th Oct, am | Aula Polivalente (AP) |
| Artur Bednarkiewicz | INTIBS (Poland) | Label free sub-diffraction imaging | | IB2 | Monday 13th Oct, am | Aula Polivalente (AP) |
| Lluis F. Marsal | Universitat Rovira i Virgili (Spain) | Tailored Nanostructured Anodic Alumina Platforms for Biomedical Applications | | IB3 | Monday 13th Oct, pm | Aula Polivalente (AP) |
| Jose Manuel Costa Hernandez | Universidad de Oviedo (Spain) | Functionalized Nanoparticles and Spectroscopy for High-Sensitivity Biomarker Quantification: Progress in Decentralized Diagnosis and Food Safety Control | | IB4 | Monday 13th Oct, pm | Aula Polivalente (AP) |
| Hong Lui | Shandong University, China | Material Cues Regulating Stem Cell Fate for Cell Therapy of Neurological Diseases | | IB5 | Tuesday 14th Oct, am | Aula Polivalente (AP) |
| Lewis E. MacKenzie | University of Strathclyde, Scotland (UK) | Exploring overlooked variables in upconversion nanoparticle synthesis: getting the basics in place for future biomedical applications | | IB6 | Tuesday 14th Oct, am | Aula Polivalente (AP) |
| Antonio Benayas | Universidad Autónoma de Madrid (Spain) | Luminescence thermometry 4.0: the probe testing heat transport within itself | | IB7 | Tuesday 14th Oct, am | Paraninfo (P) |
| Beatriz H. Juárez | Instituto Ciencia Materiales Madrid- CSIC (Spain) | Ag2S-based nanoparticles for luminescence nanothermometry | | IB8 | Tuesday 14th Oct, am | Aula Magna (AM) |
| Adolfo Speghini | University of Verona (Italy) | NanoLDHs for biomedical applications | | IB9 | Tuesday 14th Oct, am | Paraninfo (P) |
| Ute Resch-Gerner | Inst. Mat. Research Test. (BAM) (Germany) | From Multicolor Reporters and Sensors and Surface Functionalization to Multi-Method Nanoscale Reference Materials | | IB10 | Tuesday 14th Oct, pm | Aula Magna (AM) |
| Stéphane Petoud | Center Molecular Biophysics, CNRS (France) | Lanthanide Compounds for Biological Imaging: Dual-mode Near-infrared Optical and Photoacoustic Imaging Agents with Low Energy Excitation Wavelengths | | IB11 | Tuesday 14th Oct, pm | Capilla ( C ) |
| Fernando Sigoli | Uni Campinas (Brazil) | The Role of Molecular Symmetry in Modulating Downshifting and Upconversion Circularly Polarized Luminescence of Lanthanide(III) Systems | | IB12 | Tuesday 14th Oct, pm | Aula Polivalente (AP) |
| Svetlana Eliseeva | Center for Molecular Biophysics, CNRS (France) | Luminescent Lanthanide(III)-Based Metallacrowns as Modular Scaffolds to Design NIR-II Imaging Agents | | IB13 | Tuesday 14th Oct, pm | Capilla ( C ) |
| Enrique Ortí | ICMOL Valencia (España) | Hole-Transporting Materials for Perovskite Solar Cells: Chemical Design and Charge Transport | Invited - Energy/others | IE1 | Monday 13th Oct, am | Paraninfo (P) |
| Zhuoying Chen | ESPCI Paris - PSL (France) | Nanocomposites and Nanoscale Structural-Properties for More Stable Perovskite Solar Cells | | IE2 | Monday 13th Oct, am | Paraninfo (P) |
| Carlos Brites | University of Aveiro (Portugal) | SHIFTing Paradigms: Molecular Logic Meets Lanthanide Photonics | | IE3 | Monday 13th Oct, am | Aula Magna (AM) |
| Wiebke Albrecht | AMOLF institute, Amsterdam (Netherladns) | Single-particle structure-property correlation for optical fiber-based photocatalytic reactors | | IE4 | Monday 13th Oct, pm | Capilla ( C ) |
| Esther Alarcón | AMOLF institute, Amsterdam (Netherladns) | Efficient ultrathin solar cells enabled by nanoscale architectures with correlated disorder | | IE5 | Monday 13th Oct, pm | Paraninfo (P) |
| Maria Escudero | ICN2, Cataloina (Spain) | Tailored Electrochemical Interfaces for Renewable Energy Conversion | | IE6 | Monday 13th Oct, pm | Paraninfo (P) |
| Rui Almeida | Universidade de Lisboa (Portugal) | Up-conversion in sol-gel derived 1-D microcavities for photonic crystal assisted white light generation | | IE7 | Monday 13th Oct, pm | Aula Magna (AM) |
| Claudio Roscini | ICN2, Cataloina (Spain) | Low-cost and sustainable smart window films for energy savings | | IE8 | Monday 13th Oct, pm | Capilla ( C ) |
| Antonio García-Martín | IMN-CSIC (Spain) | VO2-Au coupling: photothermal and modulation effects | | IE9 | Tuesday 14th Oct, am | Paraninfo (P) |
| Gaël Ung | University of Connecticut; LBNL (USA) | Luminescence and Circularly Polarized Luminescence from Molecular Transuranic Complexes | | IE10 | Tuesday 14th Oct, am | Aula Magna (AM) |
| Fernando León | Banco de España (Spain) | Materials and Technology for Banknotes | | IE11 | Tuesday 14th Oct, am | Aula Polivalente (AP) |
| Erik Garnett | AMOLF institute, Amsterdam (Netherladns) | The Material Evolution Revolution | | IE12 | Tuesday 14th Oct, am | Capilla ( C ) |
| Emilio Nieto | Centro Nacional de Hidrógeno, CNH2 (Spain) | Hydrogen: present and Future | | IE13 | Tuesday 14th Oct, pm | Paraninfo (P) |
| Rosalía Serna | Instituto de Óptica, CSIC, Madrid (Spain) | Sustainable Semimetal Nanostructures for Unconventional Plasmonics : Promising Energy and Sensing Photonic Platforms | | IE14 | Tuesday 14th Oct, pm | Paraninfo (P) |
| Diogo Alves Gálico | University of Ottawa (Canada) | Magnetic Circularly Polarized Luminescence with Lanthanides(III) | | IE15 | Tuesday 14th Oct, pm | Paraninfo (P) |
| Airán Ródenas | LEAP Lab - Universidad de La Laguna (Spain) | Towards all-inside-crystal 3D nanophotonics for extreme-environment sensing | | IE16 | Wed 15th Oct, am | Paraninfo (P) |
| Markus Suta | Heinrich Heine Universität Düsseldorf (Germany) | Guidelines on the design of wide-range luminescent thermometers | | IE17 | Wed 15th Oct, am | Sala Juntas (SJ) |
| Artiom Skripka | Oregon State University (USA) | Photon avalanching in Nd3+-doped heavy-halides | | IE18 | Wed 15th Oct, am | Aula Magna (AM) |
| Lining Sun | Shanghai University (China) | Lanthanide Upconversion Luminescence: From Molecule-Nano-Micro Scale | | IE19 | Wed 15th Oct, am | Capilla ( C ) |
| Rute A. S. Ferreira | University of Aveiro (Portugal) | Luminescent Materials for Autonomous Energy Harvesting and Thermal Sensing in Photonic Devices | | IE20 | Wed 15th Oct, am | Paraninfo (P) |
| Mengjiao Wang | Politecnico di Torino (Italy) | Bismuth-based semiconductors for sustainable light-energy conversion | | IE21 | Wed 15th Oct, am | Sala Juntas (SJ) |
| Gunnar Westin | Uppsala University (Sweden) | On the complex nature of Eu-doped ZnO nano-sponges | | IE22 | Wed 15th Oct, am | Capilla ( C ) |
| Maria González Béjar | Universidad de Valencia (Spain) | Designing NIR-Responsive Nanohybrids: Conjugated Polymer Shells on Upconversion Nanoparticles | | IE23 | Wed 15th Oct, am | Aula Magna (AM) |
| Loïc Charbonnière | University of Strasbourg (France) | Driving molecular upconversion with molecular wheels | | IE24 | Wed 15th Oct, pm | Sala Juntas (SJ) |
| Thomas Just Sørensen | University of Copenhagen (Denmark) | Shifting our perspective on the electronic structure of lanthanide(III) ions | | IE25 | Wed 15th Oct, pm | Paraninfo (P) |
| Pedro Camargo | University of Helsinki (Finland) | Light-Switchable Plasmonic Catalysts: Smart Antenna-Reactor Nanomaterials for Energy and Environmental Applications | | IE26 | Wed 15th Oct, pm | Aula Magna (AM) |

## STUDENTS - ORAL

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|---|---|---|---|---|
| Biomedical applications | **OB1** | Piotr Kuich | Vesicular-type nanocarriers co-loaded with photosensitizers and persistent luminescence ZnGa2O4:Cr3+ nanomaterials for theranostics | Wroclaw University of Science and Technology |
| | **OB2** | Satyam Chaturvedi | Color Tunability and Optical Thermometry Study of Er3+ co-doped SrMoO4: Dy3+ phosphor | Indian Institute of Technology (BHU), Varanasi |
| | **OB3** | Jugal Barman | Microwave-assisted method for rapid synthesis of high-quality iron-oxide nanocubes using benzaldehyde as a key molecule | Italian Institute of Technology, Genova, Italy |
| | **OB4** | Ramon Raposo Filho | How surface charge controls the onset temperature of LDL fluctuations in ambient liquid water | CICECO – Aveiro Institute of Materials |
| | **OB5** | Pablo Camarero Linares | What Can CaF2:Nd,Y Nanothermometers Tell Us About Heating in U-87 Mg Multicellular Spheroids? | Universidad Autónoma de Madrid |
| | **OB6** | Alejandro Hernández Medel | Silica Shielding of $Ag_2S$ Nanocrystals: Safeguarding Luminescence in Complex Biological Environments | Universidad Autónoma de Madrid |
| | **OB7** | Diego Lecumberri | Dual-Mode NIR-III Fluorescent and OCT Contrast Agents Based on Zinc-Doped Silver Telluride Quantum Dots | Universidad Autónoma de Madrid |
| | **OB8** | Rebecca McGonigle | The role of polyethyleneimine (PEI) molecular weight in tuning molecular binding, photophysical, and FRET properties of NaYF4:Yb,Er upconversion nanoparticles. | The University Of Strathclyde |
| | **OB9** | liyan ming | Luminescence-enabled three-dimensional temperature mapping | nanoBiG-Universidad Autónoma de Madrid |
| | **OB10** | Hana Mirmajidi | Biopolymer-Coated Lanthanide Nanoparticles for Enhanced Bioimaging | University of Ottawa |
| | **OB11** | Naomi Weitzel | Large Stokes Shift UV Emission from Fully Sensitized NaYbF4:Tm@NaYF4 Nanoparticles: Engineering Energy Migration and Shell Passivation for Bioactive Photochemistry | University of Regensburg |
| | **OB12** | Ariel Stiber | Advancing CAR T Cell Therapy with Surface-enhanced Raman-based Live Immune Cell Monitoring | Stanford University |
| | **OB13** | Francis D. R. Garcia | Integrated Photoluminescence-Based Volatile Organic Compounds Detection: Material Design and Miniaturized Sensor Development | São Carlos Institute of Chemistry (IQSC-USP) |
| | **OB14** | Emily Andreato | Indium-Based Fluoride Nanoparticles Doped with Chromium for Near Infrared Luminescence | nanoBiG-Universidad Autónoma de Madrid |
| | **OB15** | Cindy Shi | Mechanosensitive polymer-upconverting nanoparticle composites with biologically-relevant compliances | Stanford University |
| | **OB16** | Zhen Mu | Conditional Diffusion Reconstruction for Scintillator Based X ray Imaging | National University of Singapore |
| | **OB17** | Emil Milan | Upconverting colloidal nanocomposites for PDT | Università degli studi di Verona |

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| Energy/others applications | **OE1** | Yongwei Guo | Exploring Water Beyond the Solvent: Insights into Density Fluctuations and Enhanced Green Fluorescent Protein (EGFP) Unfolding via Luminescence Thermometry | Universidade de Aveiro |
| | **OE2** | Rohit B Raj | Optical reactor for light-driven chemistry | AMOLF institute, Amsterdam (Netherlands) |
| | **OE3** | Jan Moszczyński | Force and Light (UV-NIR) emissions from Nd3+ and Mn2+ doped ZnS/CaZnOS Heterojunction for thermal and biological applications via Mechanolum. and Photolum. | Adam Mickiewicz University |
| | **OE4** | Miguel Medina-Alayón | Luminescence-encoded materials for next-generation security inks | Universidad de La Laguna, Spain |
| | **OE5** | Sheila Torres-García | Boosting Photoelectrochemical Hydrogen Generation via Up-Conversion in Rare-Earth-Doped Materials | Universidad de La Laguna, Spain |
| | **OE6** | Nikita Panov | Leveraging Cross-Sensitivity for Multiparameter Luminescence Sensing with Tunable Sensitivity-Specificity Balance. | Universidad Autónoma de Madrid |
| | **OE7** | Zaida Curbelo Cano | Synthesis of composites for 3D-printing of tuned luminescent objects using up-conversion rare-earth doped ceramics for anti-counterfeiting applications | IMDEA Nanociencia |
| | **OE8** | Beatriz Castillo | Towards chiral acoustoplasmonics | IMN-CSIC |
| | **OE9** | Shanas Fatima | Rare-Earth Doped $Cs_3Bi_2Cl_9$ for Optical Thermometry and Anticounterfeiting | Indian Institute of Technology, (BHU), Varanasi |
| | **OE10** | Maximilian Stremel | A Revival of Unusual Transition Metal Ions | Universidad de La Laguna, Spain |
| | **OE11** | Shruti Sajwan | Lanthanide co-doped Zn2.95Ga2SnO8: Cr3+ : A promising material for Advanced Multilevel Anticounterfeiting | Indian Institute of Technology (Banaras Hindu University) Varanasi |
| | **OE12** | Noel Muñoz Pérez | Ketocyanine-based materials for near infrared-to-visible thermochromism | Institut Català de Nanociència i Nanotecnologia (ICN2) |
| | **OE13** | Ana Dávila | NaYF4:Er3+, Yb3+ UCNP and their highly polarized luminescence as flow sensors | Nanomaterials for Bioimaging Group (nanoBIG) |
| | **OE14** | Esther Rincón | Optical trapping of upconverting nanoparticles on ferroelectric substrates | Universidad Autónoma de Madrid |
| | **OE15** | Aleix Carrascull Marin | Towards Photochromic Smart Windows: Nanodroplet Technology for Scalable and Durable Film Coatings | Institut Català de Nanociència i Nanotecnologia - ICN2 |
| | **OE16** | Loriane Monin | Investigating the structural stability of GNR under pulsed light illumination inside the transmission electron microscope for light driven catalysis | AMOLF institute, Amsterdam (Netherlands) |
| | **OE17** | Fengchan Zhang | Plasmon-enhanced colloidal upconverting nanoparticles: brighter luminescence and controllable motion | Universidad Autónoma de Madrid |
| | **OE18** | Veronika Adolfs | 2D-semiconductor nanoplatelets as laser gain medium in liquid-core-fibers | Leibniz University Hannover |

## REGULAR (Dr./Prof.) - ORAL

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| Biomedical applications | **OB18** | Albenc Nexha | Artificial seeds that fly and sense environmental parameters | INM - Leibniz Institute for New Materials |
| | **OB19** | Tatiana Tozar | Development and characterization of motexafin lutetium - loaded hydrogels for NIR-activated photodynamic therapy in breast cancer | National Institute for Laser, Plasma, and Radiation Physics |
| | **OB20** | Natalia Jurga | Effect of the synthesis route of Er3+-based photon-upconversion nanoparticles on immunoassays for disease biomarkers | Adam Mickiewicz University in Poznań |
| | **OB21** | Ecem Tiryaki | Engineered Ag@Au@Iron Oxide Trimers for Synergistic Magnetic and Photothermal Therapy of Heat-Resistant Glioblastoma | Istituto Italiano di Tecnologia (IIT) |
| | **OB22** | Fernando Lahoz | Random laser emission of fluorescent molecules for biomedical applications | Universidad de La Laguna |
| | **OB23** | Ian Pompermayer Machado | Exploring the Er,Yb-doped upconversion system for BW-I thermometry: does the detection system matter? | Ghent University |
| | **OB24** | Dominika Przybylska | Detection of specific analytes using upconverting nanoparticles coated by molecularly imprinted polymers as biomimetic receptors | Faculty of Chemistry, Adam Mickiewicz University in Poznań |
| | **OB25** | Miao Liu | Toward accurate photoluminescence nanothermometry using rare-earth doped nanoparticles | Institut National de la Recherche Scientifique |
| | **OB26** | Bartosz Krajnik | Single nanoparticle temperature mapping | Wroclaw University of Science and Technology |
| | **OB27** | Marcin Nyk | Two-photon excited luminescence of advanced colloidal nanomaterials for heavy metal ions detection | Wroclaw University of Science and Technology |
| | **OB28** | Mario Diaz | Optical and lasing properties of the novel antiestrogen derivative endoxifen-NBD (FLTX3) and its potential for the diagnosis of breast cancer resistance | Universidad de La Laguna |
| | **OB29** | Hans Gorris | Hybridization transfer assay based on UCNPs detects ultralow concentrations of DNA | Masaryk University |
| | **OB30** | Rogéria Rocha Gonçalves | From Synthesis to Application: Biocompatible Gd3TaO7 Nanoprobes for Multimodal Biomedical Imaging | University of Sao Paulo |
| | **OB31** | Dirk Ortgies | Nanotechnology-Enabled Contrast Agents for Rapid Detection of Myocardial Infarction | Universidad Autónoma de Madrid |
| | **OB32** | Tomasz Grzyb | Applying Luminescent Nanoparticles in Biological Research of Nano- and Microplastics | Adam Mickiewicz University, Poznań |
| | **OB33** | Chen Jiaye | Optical Nonlinearities in Excess of 500 through Sublattice Reconstruction | National University of Singapore |
| | **OB34** | K. David Wegner | Ag2S nanocrystals as next-generation, heavy-metal free short-wave infrared emitters for biomedical imaging and sensing applications | Federal Institute for Materials Research and Testing (BAM) |
| | **OB35** | Fernando E. Maturi | Multiparametric thermal sensing: how far can we go in luminescence thermometry? | nanoBIG - Universidad Autónoma de Madrid |
| | **OB36** | Celina Matuszewska | Mechanistic Insights into the Enhancement of Persistent Luminescence in ZnGa2O4: Cr3+ Nanoparticles upon H2O2 Exposure | Sorbonne Université |

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| Energy/others applications | **OE19** | Erving Ximendes | Artificial Neural Networks as a Key Enabler for Advanced Luminescence Thermometry | Universidad Autónoma de Madrid |
| | **OE20** | Yoel Nergín | Engineering Metal–Semiconductor Nanostructures for Enhanced Photocatalysis | Photonics & Nanotechnology Group, King's College |
| | **OE21** | Michal Zitnan | TiO2-based heterojunction deposited on the membrane for photocatalytic wastewater treatment | Alexander Dubcek University in Trencin |
| | **OE22** | Celso de Mello Donega | Colloidal Nanocrystals for Quantum Dot-based Luminescent Solar Concentrators | Utrecht University |
| | **OE23** | christian würth | Influence of Integrating Sphere Geometry on Absolute Measurements of Photoluminescence Quantum Yields of Light Scattering LED Converter Materials | BAM - Federal Institute of Material Science and Testing |
| | **OE24** | Jence Mulder | Narrow-band Eu3+-based red phosphors for warm white lighting | Seaborough Research BV |
| | **OE25** | Lorenzo Vallan | Oil Nanodrops-based Luminescent Solar Concentrators | Institut Català de Nanociència i Nanotecnologia (ICN2) |
| | **OE26** | Felipe Andrés Garcés Pineda | Spin manipulation in electrochemistry: From catalyst design to energy applications | Institute of Chemical Research of Catalonia (ICIQ) |
| | **OE27** | Laura Francés Soriano | Artificial Photorepair of DNA ε-Adducts via NIR-Activated Upconversion Nanomaterials | Universitat Politècnica de València |
| | **OE28** | Agata Szczeszak | Rare-Earth Doped Molybdate–Tungstate Phosphors for Optical Thermometry and White LED Applications | Adam Mickiewicz University, Poznań |
| | **OE29** | York Estewin Serge Correales | Extending NIR emission into the SWIR via cross-relaxation tuning in Tm3+-doped nanoparticles | University of Ottawa |
| | **OE30** | Lukasz Marciniak | Eu3+ based luminescent ratiometric thermometer for thermal sensing and imaging? Phase transition in action | Institute of Low Temperature and Structure Research, Polish Academy of Scie. |
| | **OE31** | Humberto E. Sánchez-Godoy | Inverted Triple-Cation Perovskite Architectures Outperform Conventional Counterparts in Photovoltaic and Photodetector Applications | Instituto de Ciencia de los Materiales, Universidad de Valencia (Spain) |
| | **OE32** | Airton Germano Bispo-Jr | Investigating YbIII Quantum Cutting Emission in Molecular Systems Based on Coordination Polymers | University of São Paulo - Institute of Chemistry |
| | **OE33** | Sergio Rey | Er-enabled Cathodoluminescence Nanothermometry of Plasmonic Nanoparticles under Laser Excitation | NWO-I AMOLF |
| | **OE34** | Przemysław Woźny | Whispering Gallery Modes in Rhodamine B-Doped Cellulose Microfibers for High-Sensitivity Optical Thermometry | Uniwersytet im. Adama Mickiewicza w Poznaniu |
| | **OE35** | Lauro June Queiroz Maia | Multifunctional lanthanide-doped YAB and YBO3 nanomaterials with visible and infrared emissions for photonic devices | Federal University of Goiás and University of São Paulo |
| | **OE36** | Luis Linares | From Waste to Resource: The Potential of Recycled Lithium Batteries | EAVE Inc. (Spain) |
| | **OE37** | Beibei Shao | Bioinspired Intelligent Interface Materials and Self-powered Devices for Wearable/On-skin Health Monitoring | FUNSOM, Soochow University, Suzhou, China |
| | **OE38** | Ricardo Santos Baltieri | Luminescence Thermometry in Pure $TeO_2$ Glasses Doped with Er3+/Yb3+ and Eu3+: Remote Sensing Capability Across the Biological Temperature Range | University of São Paulo |
| | **OE39** | Sergio A M Lima | Multiparametric luminescent thermometry using a new series of iridiumIII complexes: unveiling temperature dependence via $^3LC$–$^1$,$^3MLCT$ hybrid states | São Paulo State University (Unesp) |
| | **OE40** | Simon Spelthann | Towards Measuring Spatial Thermal Gradients with Nanothermometers During Ultrafast Laser-Driven Dissipative Self-Assembly | Ruhr-University Bochum |
| | **OE41** | José Maurício Almeida Caiut | Ln3+-doped Cellulose Nanocrystals Cholesteric Films: Influence on Lanthanide Spectroscopy and Potential Photonic Applications | UNIVERSITY OF SÃO PAULO (USP) |
| | **OE42** | Beatriz S. Cugnasca | BODIPY/Eu3+-Tetrakis luminescent PMMA films aiming for smart window applications | University of Sao Paulo - Institute of Chemistry |
| | **OE43** | Stefano Giancola | Unlocking affordable and sustainable CO2 capture and purification to enable downstream conversion | Orchestra Scientific |
| | **OE44** | Juan P. Martínez-Pastor | Optoelectronic properties of Two-Dimensional Metal Halide Perovskites | Instituto de Ciencia de los Materiales, Universidad de Valencia (Spain) |
| | **OE45** | Jung-Young-Son | | Konyang University (South Korea) |
| | **OE46** | Pawel Karpinski | Optical tweezers, laser refrigeration, Raman thermometry and anti-Stokes luminescence of Yb-doped microcrystals | Wroclaw University of Science and Technology |
| | **OE47** | Vitezslav Jary | Scintillation and optical properties of advanced YAS:Ce glass system | Institute of Physics of the Czech Academy of Sciences |
| | **OE48** | Daan Methorst | Emission collimation for enhanced diffuse light concentration | AMOLF institute, Amsterdam (Netherlands) |
| | **OE49** | Elaina Galvin | Dynamic Plasmonic Photothermal CO2 Hydrogenation | AMOLF institute, Amsterdam (Netherlands) |
| | **OE50** | Paulina Rajchel-Mieldzioć | Controlling Emission of Tm-based Upconverting Nanoparticles via Multi-Wavelength Near-Infrared Co-Excitation | University of Warsaw |
| | **OE51** | Maja Szymczak | Ratiometric luminescence manometry based on broadband-emitting phosphors: a new class of highly sensitive pressure sensors | Institute of Low Temperature and Structure Research Polish Acad. Scie. |
| | **OE52** | Emmanuel Reyes-Francis | High-Efficiency CsPbBr3 Perovskite Quantum Dots Embedded in Polymer Matrices for Additive Manufacturing | Instituto de Ciencia de los Materiales, Universidad de Valencia (Spain) |
| | **OE53** | Adam Filipkowski | Single-to-donut-mode converter for coupling light into ring core fibre | Institute of Microelectronics and Photnonics |
| | **OE54** | Marta Gordel-Wójcik | Tracking Excited State Processes in Plasmon Chromophore Hybrids via Femtosecond Transient Absorption | Wrocław University (Poland) |

## STUDENTS - POSTER

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| Biomedical applications | **PB1** | Jordi Jaenen | Development of SiO2@AuNRs-LiLuF4:Ho3+,Yb3+ Hybrid Nanostructure for Simultaneous Near-Infrared Induced Heating and Optical Nanothermometry | Ghent University |
| | **PB2** | Joshua Baggott | Yb3+/Er3+ Upconversion Luminescence in Lithium Aluminosilicates | Intelligent Materials Chemistry Research Group, University of Turku |
| | **PB3** | Natalia Ochoa Paipilla | Towards nanothermometers for inflammation detection in the NIR-III – Optimization of Er3+ emission in the near-infrared | Universidad Autonoma de Madrid |
| | **PB4** | Renan Caike Silva | Design of core-multi-shell NaGdF4:YbIII, TmIII upconversion nanoparticles decorated with luminescent iridiumIII complex: synthesis and photophysical insight | São Paulo State University |
| | **PB5** | Zofia Petryna | Downshifting Tm3+ -Yb3+ doped LiLuF4 nanoparticles for NIR thermometry. Examining the influence of core-shell structures and a 3rd Ln3+ ion on thermometry performance | NanoSensing Group; Department of Chemistry; Ghent University |
| | **PB6** | Ayse Alici | Developing Hybrid Materials Based on Multifunctional $Ag_2S$ Nanoparticles for Photothermal Therapy and Real-Time Temperature Sensing | Ghent University, NanoSensing Research Group |
| | **PB7** | Francesca Loschi | Lanthanide doped nanofluorides as optical probes for biomedical applications | Nanomaterials Research Group |
| | **PB8** | Maria S. Batista | Red/NIR emission in zinc gallogermanate: Cr3+ and Cr4+ active centers | i3N, Department of Physics, University of Aveiro, Portugal |
| | **PB9** | Livia Didonè | Use of biorthogonal click chemistry for the detection of inflammation-induced overexpression of VCAM-1 in mouse endothelial cells | nanoBIG - Universidad Autonoma de Madrid |

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| Energy/others applications | **PE1** | Samuel Sanchez | Photon Piling in Upconverting Lanthanide Clusters | University Of Strasbourg |
| | **PE2** | Luis Merchante Gallego | Transition metal oxides as a methane oxidation catalysts under Plasma conditions | Institute of Chemical Research of Catalonia (ICIQ) |
| | **PE3** | Lília Dias | Photonic Materials for Neuromorphic Architectures | Department of Physics and CICECO-Aveiro Institute of Materials |
| | **PE4** | Ayla Dekker | Direct insights into ligand exchange dynamics on NaYF4 nanocrystals using 1H-NMR | Utrecht university |
| | **PE5** | Zoé Languénou | Metal-organic frameworks (MOFs) based on lanthanides from molecular electronics | CICECO-Aveiro Institute of Materials |
| | **PE6** | Jana Floréal | Stable nano-YAG:Ce3+ phosphors for photonic applications | Seaborough Materials Research B.V. |
| | **PE7** | Agnieszka Siomra | Metal ions sensing with two-photon fluorescent probes based on cadmium-free colloidal quantum dots | Wroclaw University of Science and Technology |
| | **PE8** | Liliana Santamaría Acevedo | Electrocatalytic $H_2O_2$ Production via $2e^-$ Water Oxidation on Fluorine-Doped Tin Oxide Catalysts | Institute of Chemical Research of Catalonia (ICIQ) |
| | **PE9** | Margarita Galper | Modifying PTAA Wettability for Large Area Perovskite Solar Cells | AMOLF |
| | **PE10** | Julia Zanoni | Optical Properties of Eu-Implanted Ga2O3 Thin Films: From α to β Polymorphs | i3N, Departamento de Física, Universidade de Aveiro |
| | **PE11** | Kiril Ivanov-Kurtev | Stitching-Based Resolution Enhancement in Wavefront Phase Measurement of Silicon Wafer Surfaces | Universidad de La Laguna / Wooptix SL. |
| | **PE12** | Alice Mirone | Compact photocapacitors and photobatteries for direct light energy storage | Politecnico di Torino, Italy |
| | **PE13** | Jiangtao Li | Skin-inspired stretchable biogel enables high-performance moisture-electric generation and AI-enhanced closed-loop hydration regulation | FUNSOM, Soochow University, Suzhou, China |
| | **PE14** | Fady Elhady | Superior Photodetection in Inverted Perovskite Architectures: Enhanced Responsivity and High Stability in p-i-n Triple-Cation Devices | Instituto de Ciencia de los Materiales, Univ. de Valencia (Spain) |
| | **PE15** | Álvaro de Armas Viera | Micropositioning NIR colloidal nanocrystals and measurement of their microluminiscence | Instituto de Ciencia de los Materiales, Univ. de Valencia (Spain) |
| | **PE16** | José Moreno-Tanco | Photoconductivity in ultrathin Indium Selenide nanosheets | Instituto de Ciencia de los Materiales, Univ. de Valencia (Spain) |

| REGULAR (Dr./Prof.) - POSTER | | | | |
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| Biomedical applications | PB10 | Angela Staicu | Advanced Photodynamic Therapy Using Laser-Generated X-Rays | National Institute for Lasers, Romania |
| | PB11 | Dinache Andra Cristina | Scintillating Nanocomplexes for X-Ray Induced Photodynamic Therapy | National Institute for Lasers, Romania |
| | PB12 | Aleksandra Pilch-Wróbel | Engineering Core@Shell Upconverting Nanoparticles for High-Efficiency FRET-Based pH Sensing | Institute of Low Temperature and Struct. Res. Polish Acad. |
| | PB13 | Magdalena Dudek | Evaluating the laser cooling potential of Yb3+ - doped CaF2 microcrystals | Wroclaw University of Science and Technology |
| | PB14 | Łukasz Bujak | Adaptive Phase Engineering in Interferometric Scattering Microscopy | Institute of Photonics and Electronics of the CAS |
| | PB15 | Vitalijus Karabanovas | Highly Photostable UCNPs–Chlorin e6 Nanocomplex for Dual NIR-Activated Photodynamic Therapy | National Cancer Institute |
| | PB16 | Sílvia Silva | Before Going Intracellular: Exploring the Temperature-Dependent Emission Behaviour and Stability of a Genetically Encoded Probe in Intracellular-Mimicking Buffers | Universidade de Aveiro |
| | PB17 | Dongmei Qiu | Infrared emitting lanthanide doped nanoparticles provide sensing capabilities to coronary implants | UAM nanoBig |
| | PB18 | Tatiana Tozar | Development of a multimodal laser-based system for intraoperative differentiation of head and neck cancer | National Institute for Laser, Plasma, and Radiation Physics |
| | PB19 | Tatiana Tozar | Modeling proton-induced DNA damage in human fibroblasts using GEANT4-DNA simulations | National Institute for Laser, Plasma, and Radiation Physics |
| | PB20 | Felipe S. M. Canisares | Upconversion nanoparticles coated with Ir3+-Ln3+ bimetallic complex aiming for singlet oxygen (1O2) generation | University of São Paulo - Institute of Chemistry |
| | PB21 | Alessandra Mara Garbosa Mutti | Investigation of a nanoconstructed curcumin-loaded Eu(III)-silica system as nitric oxide photoreleasing for theranostic application | UNESP |
| | PB22 | Maryam Saketosgouei | Study on optical properties of K and Cs-doped g-C3N4 and their photoelectrochemical activity for reduction of CO2 | Institute of Chemical Research of Catalonia (ICIQ-CERCA) |
| | PB23 | Vilius Poderys | Photodynamic Performance of Upconverting Nanoparticle–Protein Stabilized Gold Nanocluster–Chlorin e6 Hybrid Systems | National Cancer Institute |
| | PB24 | Laura García-Expósito | Label-free imaging of human cell models of neurodegenerative disorders using Quantitative Phase Imaging (QPI) | Dpto Ciencias Médicas ULL |
| | PB25 | Mohammad Ali Nasiri | ZnO Layer Optimization for Enhanced Performance of InAs Quantum Dot Photodetectors in Bioimaging | Instituto de Ciencia de los Materiales, Univ. de Valencia (Spain) |

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| Energy/others applications | PE17 | Nayara De Melo Costa Serge | Bifunctional Eu3+-doped layered double hydroxide on membrane support for luminescent sensing and adsorptive removal of tetracycline | University of São Paulo (USP) |
| | PE18 | Ion Tiseanu | Thermal Wave Nondestructive Testing via Phosphor Lifetime Imaging: X-ray Imaging Validation | National Institute for Lasers, Romania |
| | PE19 | Simon Spelthann | Making the Calibration of Power Dependence in Ratiometric Luminescent Nanothermometry superfluous | Leibniz University Hannover |
| | PE20 | Leonnam Gotardo Merizio | Exploring the Glass–Particle Interface in PersL Composites | University of Sao Paulo (USP) |
| | PE21 | Georgios Arvanitakis | Photoluminescence Spectroscopy of Upconversion Nanoparticles Using a Compact Spectrofluorometer | Edinburgh Instruments |
| | PE22 | Luca Cartabia | Green Synthesis of P-doped Carbon Nitride for Effective Light-driven Oxidation Reactions in Hypoxic Environments | Justus Liebig University Giessen |
| | PE23 | Christian Hernández Álvarez | A New Approach to Remote Optical Current Sensing Using $NaYF_4:Yb^{3+},Er^{3+}$ | Adam Mickiewicz University / Universidad de La Laguna |
| | PE24 | Michael Steinke | Fiber-based Plasmonic Microreactor for Flow Chemistry | Leibniz University Hannover |
| | PE25 | Ghazaleh Abdolhossein | Iron Prussian Blue as a water oxidation catalyst in (photo)electrochemical CO2 reduction devices | Institute of Chemical Research of Catalonia (ICIQ) |
| | PE26 | Boris de Jong | When photons snowball: Studying the photon-avalanching nanocrystals | Utrecht University |