



Program

th INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE & NANOTECHNOLOGY

Future Materials 2025

TENERIFE, SPAIN | OCTOBER 27-29, 2025 ONLINE, ZOOM | OCTOBER 30, 2025

Committee Members



Ester Vazquez IRICA- UCLM Spain



Gabriel A. Lopez University of the Basque Country Spain



Alejandro Criado Fernández University of A Coruña (UDC) Spain



Pelin
University of
Trieste
Italy

Marco



Martín Jiménez University Carlos III of Madrid Spain

Cristina



Sergi Riera-Galindo ICMAB-CSIC Spain

WELCOME TO **FUTURE MATERIALS 2025!**

Dear Attendees.

Welcome to Future Materials 2025, the 6th International Conference on Materials Science & Nanotechnology to be held October 27-30, 2025, in GF Gran Costa Adeje Hotel, Santa Cruz de Tenerife, Spain and Online.

We are organizing an attractive program that will address the most current issues and challenges in Materials Science. The conference is designed to attract and stimulate scientists working in areas as diverse as chemistry, physics, biomedicine, and engineering. It is intended to be a forum to foster collaboration, exchange of ideas, and creativity. Moreover, we will pay special attention to young researchers who represent the future of science, reserving slots for their oral talks and rewarding their best presentations and posters.

As chair of the conference, I would like to express my special thanks to the scientific committee for their helpful advice and brilliant suggestions in organizing the technical program and for their thorough and timely review of the abstracts. Many thanks to the organizers for their dedicated efforts in overseeing the various aspects of the conference and coordinating related social activities.

Santa Cruz de Tenerife, in the enchanting Canary Islands, offers a unique and inspiring setting where nature and innovation come together. This stunning destination promises to captivate attendees and provide an unforgettable experience, both academically and culturally.

We look forward to seeing you all in Santa Cruz de Tenerife.



Prof. Ester Vázquez Fernández-Pacheco Conference Chair, Future Materials-2025 Director of IRICA University of Castilla-la Mancha (UCLM) Spain



	Final Program Draft	
Day-1, Monday	Meeting Room Taburiente I	October 27, 2025
08:00	On-site Registration & Badge Pickup	
08:45	Welcome and Opening Remarks Conference Chair: Prof. Ester Vazquez, University of Castilla-La	Mancha, Spain
	Moderator: Ester Vazquez, University of Castilla-La Mand	cha, Spain
	Pleanary	
09:00	From Molecules to Nanostructures: The Versatile World of Carb Maurizio Prato, University of Trieste, Italy & CIC biomaGUNE, Sp	
	Keynotes	
09:40	Advancing Tissue Engineering and Regenerative Medicine: The I Bioprinting Technologies in Next-Generation Therapeutic Applic Daniel Nieto, University of A Coruña, Spain	
10:10	Autonomous Electrochemical Sensing Goreti Sales, University of Coimbra, Portugal	
10:40		Networking & Coffee
11:10	Design and Development of TTF- and M-BDT-Based Molecular (Dulce Belo, Instituto Superior Técnico, Portugal	Conductors
Symp	oosium I: Future Biomaterials-Biomedical, Medicine and C	Other Applications (I)

	Session 1: Biomaterials for Cancer Treatments
	Chair: TBA
11:45	Photoactive Nanostructured Coordination Polymers as Novel Materials for Cancer Therapy Fernando Novio, Autonomous University of Barcelona, Spain
12:05	Multifunctional Nanotubes for X-Ray Activated Photodynamic Therapy (X-PDT) Valeria Secchi, University of Milano-Bicocca, Italy
12:25	Controlled Release of the Anticancer Drug Cyclophosphamide from a Superparamagnetic β-Cyclodextrin Nanosponge by Local Hyperthermia Generated by an Alternating Magnetic Field Sebastián Salazar Sandoval, University of Chile, Chile
12:45	Dual Role of Nerium oleander L.: Investigating Its Potential for Heavy Metal Remediation and Colorectal Cancer Treatment Naira Ibrahim, Jackson State University, United States
13:05	Group Photo followed by Lunch

	Keynote
14:00	Graphene and Post-Graphene Materials: Lessons from the Graphene Flagship Bengt Fadeel, Karolinska Institute, Sweden
	Chair: Marco Pelin, University of Trieste, Italy
	Session 2: BioNano- Toxicity and Safety
14:35	Keynote Virtual: Advancing Safety and Innovation: OECD WPMN's Role in Nanomaterials and Advanced Materials Mar Gonzalez, OECD, France
15:05	Reference and New Approach Methodologies in the Evaluation of New (Nano) Materials in the Safe and Sustainable by Design Framework: The INTEGRANO Project Experience Maurizio Gualtieri, University of Milano - Bicocca, Italy
15:25	Simplified Life Cycle Assessment of Nanoenabled Products in Early Design Phases: Application to the Additive Manufacturing Sector Leire Barruetabeña, GAIKER Technology Centre, Spain
15:45	Safety Assessment of Advanced Nanomaterials. Challenges and Gaps Blanca Suarez-Merino, TEMAS Solutions GmbH, Switzerland
16:05	Networking & Coffee
16:30	Safety Evaluation of Two-Dimensional Nanomaterials: Overcoming Challenges in Skin Sensitization Testing Michela Carlin, University of Trieste, Italy Environmental Nanosafety of 2D-Nanomaterials: A Case Study on the Sexual Reproduction of Seed Plants
16:50	Nida Zaib, University of Trieste, Italy Fabio Candotto Carniel, University of Trieste, Italy
	Session 3: Smart Biomaterials for Sensing and Recognition
	Chair: Cristina Martín Jiménez, University of Castilla-La Mancha, Spain
17:10	Nanomaterial-Based Smart Inks for Electrochemical Sensors Alessandro Silvestri, Ca' Foscari University of Venice, Italy
17:30	Charge Density Modulation in Graphene FET Biosensors for Virus Detection via Chemical Modification Davide Campagnol, University of A Coruña (UDC), Spain
17:50	Bio-LLPS Engineering Tomohiro Nobeyama, Kyoto University, Japan
17:50 18:10	

	Symposium II: Materials for Electronics, Optics and Photonics
	Session 1: Next-Gen Luminescent and Optical Materials
	Chair: Sergi Riera-Galindo, ICMAB-CSIC, Spain
11:45	Luminescence-Based Optical Sensors and their Integration into 3D-Printed Materials Inocencio R. Martin, University of La Laguna, Spain
12:05	Organic Semiconductors and Emitters for OLEDs and Optical Sensors Juozas V. Grazulevicius, Kaunas University of Technology, Lithuania
12:25	Plasmonic Nano-Coatings for Sensing Applications Ribal Georges Sabat, Royal Military College of Canada, Canada
12:45	Magneto-Photoresponse in 2D Optoelectronic Materials and Devices for Reconfigurable In-Sensor Vision Systems Yuyan Wang, Tsinghua University, China
13:05	Group Photo in Room I followed by Lunch
	Session 2: Magnetism, Spintronics and Ferroelectrics
	Chair: Gabriel A. Lopez, University of the Basque Country, Spain
14:35	Regulation of Magnetic Structures and the Physical Properties in Antiperovskite Antiferromagnetic $Mn_3XN(C)$ Compounds Cong Wang, Beihang University, China
14:55	Highly Efficient Room-Temperature Spin-Orbit Torque in an Epitaxial Half-Heusler Alloy NiMnSb Single Layer Miao Jiang, Beijing Institute of Technology, China
15:15	Nanoscale Distortions Produce Mesoscale Modulations in Li-Doped KTa/NbO ₃ Perovskite Ferroelectrics Raffaella Soave, CNR SCITEC, Italy
15:35	The Origin of the Spin-Peierls Transition in π -Stacked 1,2,3,5-Dithiadiazolyl Radicals Yassine Beldjoudi, University of Nizwa, Oman
15:55	Networking & Coffee
	Session 3: Advanced Electronic & Semiconductor Materials
	Chair: Gabriel A. Lopez, University of the Basque Country, Spain
16:25	Atomic-Scale Characterization of Artificial Defects in Epitaxial Graphene by Scanning Tunneling Microscopy

Van Dong Pham, Paul Drude Institute for Solid State Electronics (PDI), Germany

	Gaussian Distribution of Barrier Heights in Pd/n-Type Si _{0.90} Ge _{0.10} Schottky Diode from Reverse
16:45	Current-Voltage Characteristics
	Mohammed Mamor, Cadi Ayyad University, Morocco
17:05	Judd-Ofelt Analysis of Pr ³⁺ : A Direct Emission Spectrum Approach for Advanced LED Phosphors and Scintillators
	Aleksandar Ciric, University of Belgrade, Serbia
	Uniformly Assembled 2D-Engineered Electroactive CuO Nanoleaflet Sensor for Glucose
17:25	Monitoring
	Sisonke Sigonya, University of South Africa, South Africa
	Structural, Magnetic and Magnetocaloric Performance of Double Layered Manganites and
17:45	Potential Utilization of Van der Waals Compounds
	Akshay Kumar, Changwon National University, Republic of Korea

Poster Presentation and Networking Drinks

@Foyer

18:30

	List of Poster Presentations
FM-1	Covalent Modification of Polymers as a Tool for the Production of New, Bioactive Materials for the Regeneration of Osteochondral Defects Katarzyna Haraźna, Cracow University of Technology, Poland
FM-2	3D-Printed Bioactive Composites: Polymer-Ceramic Materials for Bone Repair Dagmara Stota, Cracow University of Technology, Poland Influence of BEEK Processing Methods on its Physicachemical Proporties and its Potential Use on a
FM-3	Influence of PEEK Processing Methods on its Physicochemical Properties and its Potential Use as a Biomaterial Julia Sadlik, Cracow University of Technology, Poland
FM-4	Calcium Phosphates in Biomedical Applications: Influence of Synthesis Methods on Biological Properties Karina Niziołek, Cracow University of Technology, Poland
FM-5	Physicochemical Properties of Calcium Phosphates Obtained by Different Methods Edyta Kosińska, Cracow University of Technology, Poland
FM-6	Nano-Composite Scaffolds for Osteochondral Tissue Regeneration Dominika Trager, Cracow University of Technology, Poland
FM-7	Innovative Polymer-Ceramic Composites for Functional Osteochondral Tissue Reconstruction Bożena Tyliszczak, Cracow University of Technology, Poland
FM-8	3D-Printed, Biologically Active Layered Scaffolds for Osteochondral Tissue Regeneration Agnieszka Sobczak-Kupiec, Cracow University of Technology, Poland
FM-9	Multi-Aspect Cathode Porosity Shaping to Increase the Efficiency of High-Temperature Fuel Cells Gabriela Komorowska, Warsaw University of Technology, Poland
FM-10	Antimicrobial and Cytotoxic Evaluation of Carvone Encapsulated in Chitosan Particles Tomáš Skala, Czech University of Life Sciences Prague, Czech Republic
FM-11	In Vitro Antimicrobial and Cytotoxic Activity of Encapsulated Cinnamon Essential Oil in Chitosan Nanoparticles Jan Hájíček, Czech University of Life Sciences Prague, Czech Republic
FM-12	Optimization of Glass Capillary Geometries for Maximum Gravimetric Hydrogen Storage Efficiency Ramon Beck, Technical University Berlin, Germany
FM-13	Photo-Assisted Energy Harvesters and Sensors Using PVDF Matrix Stabilized α-FAPbI ₃ Perovskite Niloy Mridha, Indian Institute of Technology Bombay, India
FM-14	Solid State Electrolytes by Hybridization of Ionomer Membrane: Structure-Properties Interplay Jean Alchemaly, CEA / University of Grenoble Alpes, France
FM-15	Tailoring Electronic Properties of 3D Pt-doped Hydrogenated TiO ₂ Nanotube Arrays for Enhancing Hydrogen Evolution in Acidic Media Hoang Tuan Nguyen, Jeonbuk National University, Republic of Korea
FM-16	3D Hierarchical Electrocatalyst Derived from Pt,Mo-Dually Doped NiSeO ₄ /NiSe ₂ -Coated Co ₂ P Enables High-Performance Overall Water Splitting Thokchom Anjali Devi, Jeonbuk National University, Republic of Korea

Rational Design of High Entropy Alloy Nanoparticles-Immobilized Graphene with Rich Exposed Multiple Active Sites for Promoting Water Splitting Kinetics New New Promoting Water Splitting Kinetics New New Promoting Water Splitting Kinetics New Promoting Water Splitting Water Spli		
Evolution	FM-17	Multiple Active Sites for Promoting Water Splitting Kinetics
FM-20 Sodium Ion Pouch Batteries Nam Hoon Kim, Jeonbuk National University, Republic of Korea FM-20 Development of Printed Circuit Board Materials Using Bio-Based Raw Materials Yohei Ito, Mitsubishi Electric Corporation, Japan FM-21 Modified Aluminum Powders with Enhanced Reactivity for Energy Systems Ayagoz Bakkara, The Institute Combustion Problems, Kazakhstan Development of Cascade Catalyst for Sustainable Production of Even-Numbered Paraffins from Biomass-Derived Fats and Oils II-Ho Choi, Korea Institute of Energy Research, South Korea Biomass Waste for the Preparation of rGO-Like Carbon /TiO2 Composites Derived from Cassava Residue for Counter Electrodes in Dye-Sensitized Solar Cells Wasan Maiaugree, Thammasat University, Thailand Desalination Performance of MIL-68(In) MOF-Filled PVDF Membranes in Vacuum Membrane Distillation Roberto Castro-Munoz, Gdansk University of Technology, Poland Functionalized Natural and Waste-Derived Zeolites for Elemental Mercury Control: Activation Strategies and Structural Considerations Piotr Kunecki, Mineral and Energy Economy Research Institute, PAS, Poland Sustainable Materials for Purification of Effluents from Wastewater Treatment Plants by Permeable Reactive Barriers Marzhan Kalmakhanova, M. Kh. Dulaty Taraz University, Kazakhstan FM-27 Biofuel Cell based on Photosynthetic Reaction and its Application to Architecture Yasumitsu Matsuo, Setsunan University, Japan FM-28 Additive Manufacturing of Boron-Based Functional Ceramics for Photocatalytic Applications Greta Merkininkalić, Center for Physical Sciences and Technology, Lithuania Effects of Dopants on The Structural and Electrical Properties of Hafnium Oxide Thin Films Deposited by Atomic Layer Deposition Fiorin Nastase, IMT-Bucharest, Romania Effect of the Zr/Ti Ratio on the Properties of Ba(Zr,Ti _{1-x})O ₃ Ceramics with a Perovskite-Type	FM-18	Evolution
FM-21 Modified Aluminum Powders with Enhanced Reactivity for Energy Systems Ayagoz Bakkara, The Institute Combustion Problems, Kazakhstan Development of Cascade Catalyst for Sustainable Production of Even-Numbered Paraffins from Biomass-Derived Fats and Oils II-Ho Choi, Korea Institute of Energy Research, South Korea Biomass Waste for the Preparation of rGO-Like Carbon /TiO2 Composites Derived from Cassava Residue for Counter Electrodes in Dye-Sensitized Solar Cells Wasan Maiaugree, Thammasat University, Thailand Desalination Performance of MIL-68(In) MOF-Filled PVDF Membranes in Vacuum Membrane Distillation Roberto Castro-Munoz, Gdansk University of Technology, Poland FM-25 Functionalized Natural and Waste-Derived Zeolites for Elemental Mercury Control: Activation Strategies and Structural Considerations Piotr Kunecki, Mineral and Energy Economy Research Institute, PAS, Poland Sustainable Materials for Purification of Effluents from Wastewater Treatment Plants by Permeable Reactive Barriers Marzhan Kalmakhanova, M. Kh. Dulaty Taraz University, Kazakhstan FM-27 Biofuel Cell based on Photosynthetic Reaction and its Application to Architecture Yasumitsu Matsuo, Setsunan University, Japan FM-28 Additive Manufacturing of Boron-Based Functional Ceramics for Photocatalytic Applications Greta Merkininkaité, Center for Physical Sciences and Technology, Lithuania FM-29 Cu-NH ₂ -MIL-125(Ti) Protected by PVDF for Hydrogen Production Emilia Gontarek-Castro, University of Gdansk, Poland Effects of Dopants on The Structural and Electrical Properties of Hafnium Oxide Thin Films Deposited by Atomic Layer Deposition Florin Nastase, IMT-Bucharest, Romania Effect of the Zr/Ti Ratio on the Properties of Ba(Zr _x Ti _{1,x})O ₃ Ceramics with a Perovskite-Type	FM-19	Sodium Ion Pouch Batteries
Ayagoz Bakkara, The Institute Combustion Problems, Kazakhstan Development of Cascade Catalyst for Sustainable Production of Even-Numbered Paraffins from Biomass-Derived Fats and Oils II-Ho Choi, Korea Institute of Energy Research, South Korea Biomass Waste for the Preparation of rGO-Like Carbon /TiO ₂ Composites Derived from Cassava Residue for Counter Electrodes in Dye-Sensitized Solar Cells Wasan Maiaugree, Thammasat University, Thailand Desalination Performance of MIL-68(In) MOF-Filled PVDF Membranes in Vacuum Membrane Distillation Roberto Castro-Munoz, Gdansk University of Technology, Poland Functionalized Natural and Waste-Derived Zeolites for Elemental Mercury Control: Activation Strategies and Structural Considerations Piotr Kunecki, Mineral and Energy Economy Research Institute, PAS, Poland Sustainable Materials for Purification of Effluents from Wastewater Treatment Plants by Permeable Reactive Barriers Marzhan Kalmakhanova, M. Kh. Dulaty Taraz University, Kazakhstan FM-27 Biofuel Cell based on Photosynthetic Reaction and its Application to Architecture Yasumitsu Matsuo, Setsunan University, Japan FM-28 Additive Manufacturing of Boron-Based Functional Ceramics for Photocatalytic Applications Greta Merkininkaité, Center for Physical Sciences and Technology, Lithuania FM-29 Effects of Dopants on The Structural and Electrical Properties of Hafnium Oxide Thin Films Deposited by Atomic Layer Deposition Emilia Gontarek-Castro, University of Gdansk, Poland Effect of the Zr/Ti Ratio on the Properties of Ba(Zr _x Ti _{1-x})O ₃ Ceramics with a Perovskite-Type Structure	FM-20	Yohei Ito, Mitsubishi Electric Corporation, Japan
FM-22 Biomass-Derived Fats and Oils Il-Ho Choi, Korea Institute of Energy Research, South Korea Biomass Waste for the Preparation of rGO-Like Carbon/TiO ₂ Composites Derived from Cassava FM-23 Residue for Counter Electrodes in Dye-Sensitized Solar Cells Wasan Maiaugree, Thammasat University, Thailand Desalination Performance of MIL-68(In) MOF-Filled PVDF Membranes in Vacuum Membrane Distillation Roberto Castro-Munoz, Gdansk University of Technology, Poland Functionalized Natural and Waste-Derived Zeolites for Elemental Mercury Control: Activation Strategies and Structural Considerations Piotr Kunecki, Mineral and Energy Economy Research Institute, PAS, Poland Sustainable Materials for Purification of Effluents from Wastewater Treatment Plants by Permeable Reactive Barriers Marzhan Kalmakhanova, M. Kh. Dulaty Taraz University, Kazakhstan FM-27 Biofuel Cell based on Photosynthetic Reaction and its Application to Architecture Yasumitsu Matsuo, Setsunan University, Japan FM-28 Additive Manufacturing of Boron-Based Functional Ceramics for Photocatalytic Applications Greta Merkininkaitė, Center for Physical Sciences and Technology, Lithuania FM-29 Cu-NH ₂ -MIL-125(Ti) Protected by PVDF for Hydrogen Production Emilia Gontarek-Castro, University of Gdansk, Poland Effects of Dopants on The Structural and Electrical Properties of Hafnium Oxide Thin Films Deposited by Atomic Layer Deposition Florin Nastase, IMT-Bucharest, Romania Effect of the Zr/Ti Ratio on the Properties of Ba(Zr _x Ti _{1-x})O ₃ Ceramics with a Perovskite-Type	FM-21	
FM-23 Residue for Counter Electrodes in Dye-Sensitized Solar Cells Wasan Maiaugree, Thammasat University, Thailand Desalination Performance of MIL-68(In) MOF-Filled PVDF Membranes in Vacuum Membrane Distillation Roberto Castro-Munoz, Gdansk University of Technology, Poland FM-24 Functionalized Natural and Waste-Derived Zeolites for Elemental Mercury Control: Activation Strategies and Structural Considerations Piotr Kunecki, Mineral and Energy Economy Research Institute, PAS, Poland Sustainable Materials for Purification of Effluents from Wastewater Treatment Plants by Permeable Reactive Barriers Marzhan Kalmakhanova, M. Kh. Dulaty Taraz University, Kazakhstan FM-27 Biofuel Cell based on Photosynthetic Reaction and its Application to Architecture Yasumitsu Matsuo, Setsunan University, Japan FM-28 Additive Manufacturing of Boron-Based Functional Ceramics for Photocatalytic Applications Greta Merkininkaité, Center for Physical Sciences and Technology, Lithuania FM-29 Cu-NH2-MIL-125(Ti) Protected by PVDF for Hydrogen Production Emilia Gontarek-Castro, University of Gdansk, Poland Effects of Dopants on The Structural and Electrical Properties of Hafnium Oxide Thin Films Deposited by Atomic Layer Deposition Florin Nastase, IMT-Bucharest, Romania Effect of the Zr/Ti Ratio on the Properties of Ba(Zr,Ti _{1-x})O ₃ Ceramics with a Perovskite-Type Structure	FM-22	Biomass-Derived Fats and Oils II-Ho Choi, Korea Institute of Energy Research, South Korea
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FM-26 Permeable Reactive Barriers Marzhan Kalmakhanova, M. Kh. Dulaty Taraz University, Kazakhstan FM-27 Biofuel Cell based on Photosynthetic Reaction and its Application to Architecture Yasumitsu Matsuo, Setsunan University, Japan FM-28 Additive Manufacturing of Boron-Based Functional Ceramics for Photocatalytic Applications Greta Merkininkaitė, Center for Physical Sciences and Technology, Lithuania FM-29 Cu-NH ₂ -MIL-125(Ti) Protected by PVDF for Hydrogen Production Emilia Gontarek-Castro, University of Gdansk, Poland Effects of Dopants on The Structural and Electrical Properties of Hafnium Oxide Thin Films Deposited by Atomic Layer Deposition Florin Nastase, IMT-Bucharest, Romania Effect of the Zr/Ti Ratio on the Properties of Ba(Zr _x Ti _{1-x})O ₃ Ceramics with a Perovskite-Type Structure	FM-25	Functionalized Natural and Waste-Derived Zeolites for Elemental Mercury Control: Activation Strategies and Structural Considerations
Yasumitsu Matsuo, Setsunan University, Japan FM-28 Additive Manufacturing of Boron-Based Functional Ceramics for Photocatalytic Applications Greta Merkininkaitė, Center for Physical Sciences and Technology, Lithuania Cu-NH ₂ -MIL-125(Ti) Protected by PVDF for Hydrogen Production Emilia Gontarek-Castro, University of Gdansk, Poland Effects of Dopants on The Structural and Electrical Properties of Hafnium Oxide Thin Films PM-30 Deposited by Atomic Layer Deposition Florin Nastase, IMT-Bucharest, Romania Effect of the Zr/Ti Ratio on the Properties of Ba(Zr _x Ti _{1-x})O ₃ Ceramics with a Perovskite-Type FM-31 Structure	FM-26	Permeable Reactive Barriers
Greta Merkininkaitė, Center for Physical Sciences and Technology, Lithuania EM-29 Cu-NH ₂ -MIL-125(Ti) Protected by PVDF for Hydrogen Production Emilia Gontarek-Castro, University of Gdansk, Poland Effects of Dopants on The Structural and Electrical Properties of Hafnium Oxide Thin Films Deposited by Atomic Layer Deposition Florin Nastase, IMT-Bucharest, Romania Effect of the Zr/Ti Ratio on the Properties of Ba(Zr _x Ti _{1-x})O ₃ Ceramics with a Perovskite-Type FM-31 Structure	FM-27	Vacumitsu Matsua, Satsunan University, Japan
Emilia Gontarek-Castro, University of Gdansk, Poland Effects of Dopants on The Structural and Electrical Properties of Hafnium Oxide Thin Films Deposited by Atomic Layer Deposition Florin Nastase, IMT-Bucharest, Romania Effect of the Zr/Ti Ratio on the Properties of Ba(Zr _x Ti _{1-x})O ₃ Ceramics with a Perovskite-Type FM-31 Structure	FM-28	
FM-30 Deposited by Atomic Layer Deposition Florin Nastase, IMT-Bucharest, Romania Effect of the Zr/Ti Ratio on the Properties of Ba(Zr _x Ti _{1-x})O ₃ Ceramics with a Perovskite-Type FM-31 Structure	FM-29	Emilia Gontarek-Castro, University of Gdansk Poland
Effect of the Zr/Ti Ratio on the Properties of Ba(Zr _x Ti _{1-x})O ₃ Ceramics with a Perovskite-Type Structure	FM-30	Deposited by Atomic Layer Deposition Florin Nastase, IMT-Bucharest, Romania
	FM-31	Effect of the Zr/Ti Ratio on the Properties of $Ba(Zr_xTi_{1.x})O_3$ Ceramics with a Perovskite-Type Structure

FM-32	Preparation and Characterization of Ba _{0.996} La _{0.004} Ti _{0.999} O ₃ Perovskite Ceramics Doped with Special Glass
	Beata Wodecka-Duś, University of Silesia, Poland
FM-33	Graphene-Based Inks with Controlled Antibody Orientation via Hydrazone Bond for Enhanced Biosensing Applications Riccardo Pinotti, University of A Coruña, Spain
FM-34	Technological Optimization of MXenes' Dielectrophoretic Alignment within Polar Solvents Ina Turcan, Iasi University of Life Sciences, Romania
FM-35	Enhancing Performance Behavior of Polybutylene Succinate Composites with Antimicrobial Chitosan Additives Janis Zicans, Riga Technical University, Latvia
FM-36	Synergistic Effects of MWCNTs and Chemical Admixtures on the Foam Stability and Rheological Behavior of Lightweight Cement Pastes Jolanta Pranckevičienė, Vilnius Gediminas Technical University, Lithuania
FM-37	Synthesis of N, B-Doped Carbon Quantum Dots from Spruce Lignin and Their Use as a Temperature Probe Jelena Papan Djaniš, University of Ljubljana, Slovenia
FM-38	Eu ³⁺ -Doped Sr ₂ LaF ₇ Nanopowders for Indoor Plant Growth LED Applications Ljubica Dacanin Far, University of Belgrade, Serbia
FM-39	Deep-Red Emitting Mg ₂ TiO ₄ :Mn ⁴⁺ and Ag@SiO ₂ @Mg ₂ TiO ₄ :Mn ⁴⁺ Nanoparticles Mina Medic, University of Belgrade, Serbia
FM-40	Emission Enhancement by Bi ³⁺ Co-Doping of Red-Emitting Nanophosphor for Horticulture LEDs Sanja Kuzman, University of Belgrade, Serbia
FM-41	Green Synthesis of Bimetallic Nanoparticles and their Catalytic Activity in the Degradation of Harmful Organic Dyes Moldovan Bianca, Babeș-Bolyai University, Romania
FM-42	Probing the Impact of Deposition Energy on CAE-PVD of Hard Multi-Nanolayer TiMoN/NbN Coatings Olga Maksakova, V.N. Karazin Kharkiv National University, Ukraine
FM-43	Reduced Graphene Oxide Aerogels as Adsorbents for Gas Phase Separations Maksymilian Plata Gryl, Gdansk University of Technology, Poland
FM-44	Investigation of Embraced Metal Effects on Super Atomic Molecular Orbital of C ₇₀ Tomohiro Nobeyama, Kyoto University, Japan
FM-45	Aerobic Ethanol Oxidation by Magnetic Inductive Heating of Pd on Ni-Foam Anna Maria Ferretti, CNR SCITEC, Italy
FM-46	The Magnetism of Hollow High-Entropy Spinel Oxide Nanofibers Anna Maria Ferretti, CNR SCITEC, Italy
FM-47	CeO ₂ Derived from MOFs for Spinel-Based Ceramics Klaudia Dymek, Cracow Institute of Technology, Poland

FM-48	Sodium Ion Thermodiffusion in Aqueous Solutions Confined in Silica-Based Nanoporous Materials for Low-Grade Heat Conversion to Electricity Irina Oliseveca, University of Latvia, Latvia
FM-49	Study of Structural, Optical and Photoelectric Properties of 3D-Printed Nanostructured CuO Films on Flexible Substrates for Environmentally Friendly Solar Cells: Effect of Thermal Annealing Anatolii Bukivskyi, Institute of Physics of National Academy of Sciences of Ukraine, Ukraine
FM-50	Biogenic Cockle-Derived Calcium Chloride: A Potential Agent for Biomedical Applications Bridget C.N. Obitte, University of Nigeria - Nsukka, Nigeria
FM-51	NIR-Responsive Laser-Textured Titanium Implants with MOF Coatings for Effective Antimicrobial Action Lekshmi Gopakumari, Lodz University of Technology, Poland
FM-52	Plasma-Oxidation Driven Surface Instability in PDMS: Mechanisms and Morphological Evolution Sushree Ritu Ritanjali, Indian Institute of Technology Kharagpur, India

Day-2, Tuesday	Meeting Room Taburiente I	October 28, 2025
08:45	Introduction and Day 2 Opening Remarks	
	Moderator: Ester Vazquez, University of Castilla-La Mancha, S	pain
	Pleanary	
08:50	Chemical Pattering of Graphene and Inorganic 2D-Materials Andreas Hirsch, University of Erlangen-Nuremberg, Germany Talk Supported by: CICA- Interdisciplinary Center for Chemistry and Bi	iology, Spain
	Keynotes	
09:30	Synthetic Extracellular Matrix Analogues: Driving Tissue Regeneration Control of Bioligand Presentation to the Cells Matteo Santin, University of Brighton, United Kingdom	on through Highly-Tuned
10:00	Advances in Materials and Technology for Volumetric 3D Printing Christophe Moser, Ecole Polytechnique Fédérale de Lausanne, EPFL, Sw	vitzerland
10:30		Networking & Coffe
	Symposium III: Nanotechnology and Nanomaterials	(I)
	Session 1: Characterization and Modeling	
	Chair: TBA	
11:00	Atomistic Simulation for Nanoparticle and Nanodevice Design Panagiotis Grammatikopoulos, University of Castilla-La Mancha, Spain	
11:20	Advanced Characterization of Oxide Nanomaterials Using Infrared Spaning González de Arrieta, University of the Basque Country UPV/EHU,	
11:40	Ternary W _x Ti _{1-x} O ₂ and Heterostructured TiO ₂ -WO _{3-x} Nanoarchitecture Assisted Synthesis, Hot-Carriers Dynamics and Photocatalytic Effective Riccardo Scarfiello, CNR-NANOTEC, Italy	
12:00	Tailoring the Ultrafast Coincidence Time Resolution in Novel Highly I Irene Villa, University of Milano-Bicocca, Italy	Luminous Metascintillators
12:20	Study of Water and Ethanol Sorption in ZIFs for Heat Storage Ciara Byrne, National Institute of Chemistry, Slovenia	
	Session 2: Bioengineered Nanomaterials	
	Chair: TBA	
12:40	Development and Characterization of Thermoplastic Starch Composit Additive and Reed Biomass Derived Reinforcement Remo Merijs-Meri, Riga Technical University, Latvia	tes with Carrageenan

	Keynote
14:00	Electroactive Framework Materials for Energy Storage: Dual Proton-Electron Conductors and Organic Electrodes for Rechargeable Batteries Manuel Souto Salom, University of Santiago de Compostela, Spain
	Session 2: Bioengineered Nanomaterials Continues
14:35	Mucoadhesive and Nanoparticle-Based Drug Delivery System for Oral Mucosa: Production and In Vitro Evaluation Giuseppina Nocca, Catholic University of the Sacred Heart, Italy
14:55	Anti-Wear Laser Dimples on Ti/HAp Bio Composites Loaded with Gentamycin Agnieszka Maria Tomala, Cracow University of Technology, Poland
15:15	Tailored Chemistry of Magnetic Nanomaterials for Neural Control Danijela Gregurec, Friedrich-Alexander University of Erlangen-Nuremberg, Germany
15:35	Synthesis of Magnetoelectric Nanoparticles via Hydrophobic Layer Deposition of Barium Titanate and their Application in Neuron Stimulation Vicente Duran Toro, Friedrich-Alexander University of Erlangen-Nuremberg, Germany
16:10	VISIT followed by Informal Dinner (20:00) (Ticket Required)

Symposium IV: Future Materials for Energy, Environment and Sustainability (I)

Session 1: Functional Materials and Fundamental Studies Chair: TBA Super-Emitting and Porous Materials for Applications In Energy-Water-Air Nexus 11:00 Primož Poredoš, University of Ljubljana, Slovenia Sulfur Tuned Advanced Carbons: Towards Subtle Modifications of Sulfur Lining 11:20 **Teresa J. Bandosz,** The City College of New York, United States Ab Initio Study of Reaction Kinetics Occurring at the Surface of SrFeO3-Based SOFC/SOEC 11:40 Mario Italo Trioni, CNR SCITEC, Italy Hidden Aspects of Solid-State Reactions - View Under the Hood 12:00 Nikola Biliskov, Rudjer Boskovic Institute, Croatia Removal of Azo Dyes from Water Using Carbon Based Material - A DFT Study 12:20 Eva Scholtzová, Institute of Inorganic Chemistry, Slovak Academy of Sciences, Slovakia Boosting Cathodes for Next-Gen Sodium-Ion Batteries through Interface Engineering with In Situ 12:40 **Electropolymerized PEDOT** Rafael Orlando Klee Morán, University of Córdoba, Spain 13:00 Lunch

Session 2: Solar Energy and Photoelectrochemistry Chair: TBA SYNATRA Project - Synergistic Architectures for Next Gen Agrivoltaics Incorporating 14:35 **Transparent Organic Solar Modules** Ignasi Burgés-Ceballos, Polytechnic University of Catalonia (UPC), Spain Towards Two New Atomic Layer Deposition Processes for the Synthesis of Single-Phase CoO or 14:55 Co₃O₄ Layers for the Conversion of Solar Energy into Hydrogen Olivier Debieu, CRISMAT - ENSICAEN, France Ag₁(InGa)₁(S1Se_{1-x})₂ Quantum Dot Sensitized Cobalt Sulphide Cocatalyst Activated TiO₂ 15:15 Photoelectrode for Photoelectrocatalytic Water Splitting Oluwasesan Adegoke, University of Dundee, United Kingdom **Organic Photovoltaics for Urban Environments** 15:35 Sergi Riera-Galindo, ICMAB-CSIC, Spain VISIT followed by Informal Dinner (20:00) (Ticket Required) 16:10

Day-3, Wednesday	Meeting Room Taburiente I	October 29, 2025
08:30	Introduction and Day 3 Opening Remarks Moderator: Ester Vazquez, University of Castilla-La Mancha, S	Spain
08:40	Advanced Electronic Materials- Wiley Journal Talk Gaia Tomasello, Editor in Chief - Advanced Electronic Materials	
	Pleanary	
09:00	Nanotechnology-Enabled Energy Efficiency Electronics Bingqing Wei, University of Delaware, United States	
	Keynotes	
09:40	Polypeptide-Based Therapeutics: Exploring Tropism and Overcoming Maria Jesus Vicent, The Príncipe Felipe Research Center Foundation (CI	
10:10	Serendipity Sometimes Works José Luis Vilas Vilela, University of the Basque Country UPV/EHU, Spain	in
10:40		Networking & Coffee
	Symposium III: Nanotechnology and Nanomaterials	(II)
	Session 3: Functional and Hybrid Nanomaterials	
	Session 3: Functional and Hybrid Nanomaterials Chair: TBA	
11:10	· · · · · · · · · · · · · · · · · · ·	rid Platforms for Biosensing
11:10 11:30	Chair: TBA Functionalization of 2D Materials and the Development of Nano-Hybrand Nanofluidic Applications	
	Chair: TBA Functionalization of 2D Materials and the Development of Nano-Hybrand Nanofluidic Applications Martina Lihter, Institute of Physics, Croatia Novel Magnetic Cellulose Nanocomposite Coating as a Potentially Flex	
11:30	Chair: TBA Functionalization of 2D Materials and the Development of Nano-Hybrand Nanofluidic Applications Martina Lihter, Institute of Physics, Croatia Novel Magnetic Cellulose Nanocomposite Coating as a Potentially Flex Andrei Chumakov, DESY - German Electron Synchrotron, Germany Design of Protein-Based Hydrogels Loaded with Graphene	
11:30	Chair: TBA Functionalization of 2D Materials and the Development of Nano-Hybrand Nanofluidic Applications Martina Lihter, Institute of Physics, Croatia Novel Magnetic Cellulose Nanocomposite Coating as a Potentially Flex Andrei Chumakov, DESY - German Electron Synchrotron, Germany Design of Protein-Based Hydrogels Loaded with Graphene Giulia Quaglia, University of Perugia, Italy	xible Electronic Material
11:30 11:50	Chair: TBA Functionalization of 2D Materials and the Development of Nano-Hybrand Nanofluidic Applications Martina Lihter, Institute of Physics, Croatia Novel Magnetic Cellulose Nanocomposite Coating as a Potentially Flex Andrei Chumakov, DESY - German Electron Synchrotron, Germany Design of Protein-Based Hydrogels Loaded with Graphene Giulia Quaglia, University of Perugia, Italy Young Researchers Presentations (I) Reductant Assisted Hydrothermally Synthesized Ni-Fe Based Magnetication	ic Nanoalloys for Tunable

12:55 13:10	Design Evolution of Pillar[5]arene-Based Nanopores: From Dynamic Control to High Sensitivity Sensing Kharina Fenton, King's College London, United Kingdom Advances in MOF-Based Magnetic Composites and MOF-Derived Nanomaterials: Synthesis and Catalysis
	Priyanka, University of Delhi, India
13:25	Lunch
	Keynote
14:10	Development of Self-Healing Aluminium Alloys Cecilia Poletti, IMAT- TU Graz, Austria
	Session 4: Synthesis and Nanoarchitectures
	Chair: TBA
14:45	Ultra-Fast DC Sputtering of Silver Nanoparticles for Tailored Plasmonic Architectures Without Templates Arturo Rodríguez-Gómez, Institute of Physics - UNAM, Mexico
15:05	Graphene-Si ₃ N ₄ Nanocomposites: From the Powder Synthesis to the Properties Alicia Weibel, CIRIMAT / University of Toulouse, France
15:25	Nanomaterials Based on Quinoid Complexes: From Solution to Surface Olivier Siri, Aix-Marseille University, France
15:45	Synthesis and Characterization of TiO ₂ Nanostructures on Ti ₂₈ Nb ₄ Sn Alloy via Electrochemical Anodization José Rodrigo Muñoz Hoyos, Antonio Narino University, Colombia
16:05	Light-Driven Skyrmion Crystal Generation in Plasmonic Metasurfaces Through the Inverse Faraday Effect Mathieu Mivelle, CNRS, Sorbonne University, INSP, France
16:25	Coffee
	Session 5: Smart and Sustainable Nanomaterials
	Chair: TBA
16:45	Engineering Innovative Nanobiosensors with Tunable SERS Hotspots for Ultra-Sensitive Detection of Viral Pathogens in Food and Water Ojodomo Achadu, Teesside University, United Kingdom
17:05	Molecularly Imprinted Polymer for IL-6 Using Conductive Nanomaterials Ana Rita Cardoso, BioMark@UC- University of Coimbra, Portugal
17:25	Eco-Design of Porous Silica Adsorbents Ivalina Trendafilova, Institute of Organic Chemistry with Center of Phytochemistry, BAS, Bulgaria

Smart Solutions for Liquid Purification: Porous Materials for Water and Oil

Sunny Freitas, NOVA School of Science and Technology, Portugal

18:10

17:45

Awards Distribution followed by **In-Person Clossing Remarks**

Symposium IV: Future Materials for Energy, Environment and Sustainability (II)

	Session 3: Catalysis for Energy and Environment (Evolution and Reduction Reactions)
	Chair: TBA
11:10	Nickel-Induced Reduced Graphene Oxide Nanoribbon Formation on Highly Ordered Pyrolytic Graphite for the Hydrogen Evolution Reaction Gonzalo García, University of La Laguna, Spain
11:30	Nickel, Cobalt and Ferrocene: Promising Combined Catalysts for Enhanced Oxygen Evolution Reaction Jose María Abad, Consejo Superior de Investigaciones Científicas (CSIC), Spain
11:50	Influence of Li and Na Addition on the Stability, Structure and Electrocatalytic Activity of (Mg, Co, Ni, Cu, Zn)O High Entropy Oxide for Oxygen Evolution Reaction Mohammad Imteyaz Ahmad, Indian Institute of Technology (BHU), India
	Young Researchers Presentations (II)
2:10	Solid State Electrolytes By Hybridization of Ionomer Membrane: Elaboration and Properties Jean Alchemaly, CEA / University of Grenoble Alpes, France
2:25	Microstructure Modeling for Efficient Processing Talina Terrazas, IMAT - Graz University of Technology, Austria
2:40	Harnessing the Dual Functionality of Carbon Nano-Onions: A Synergistic Approach to Light- Driven Biomedical Applications Julia M. Requena Ramírez, ICMol - University of Valencia, Spain
2:55	Hydrogel-Based 3D Printed Anthropomorphic Phantoms for Microwave Breast Imaging Carlos Martín Andreu, University of Castilla-La Mancha/IRICA, Spain
3:10	Lunc
	Session 4: Advanced Energy Storage
	Chair: TBA
4:45	Low-Carbon Footprint Synthesis of Si Anodes for Li-Ion Batteries from the SiO ₂ Shells of Diatom Microalgae Maria Valeria Blanco, ICMAB-CSIC, Spain
5:05	Strategies to Enhance the Performance of the LNMO Cathode for Generation 3b Li-Ion Batteries Jordi Jacas Biendicho, Catalonia Institute for Energy Research-IREC, Spain
5:25	Alternative Polymer Host Matrix for Lithium Metal Polymer Solid-State Batteries Shanmukaraj Devaraj, CIC EnergiGune, Spain

Molecular Dynamics Insights into the Ethaline|Au₍₁₀₀₎ Interface for Sustainable Memory/Storage

Applications
M. Natalia D.S. Cordeiro, LAQV-REQUIMTE, University of Porto, Portugal

16:05 Networking & Coffee

Session 5: Electrochemical Conversion and Storage (Supercapacitors and Hydrogen) **Chair: TBA** Green Energy Harvesting from the Air by Capturing CO₂ in an Electrochemical Capacitors 16:35 Andrea Lamberti, Polytechnic University of Turin, Italy Nickel@Polypyrrole nanofiber as a High-Performance Electrode Material for Supercapacitor 16:55 **Applications** Suparna Das, CIIAE - Iberian Centre for Research in Energy Storage, Spain Development and Investigation of High Surface Area Porous Carbon for Efficient Hydrogen 17:15 **Storage** Fail Sultanov, National Laboratory Astana, Nazarbayev University, Kazakhstan Fabrication, Characterization, and Evaluation of Guar Gum-Grafted Tannic Acid based Polymer 17:35 Composite for the Removal of Pb(II) from Wastewater Ghada Taha, National Research Centre, Egypt

18:10

Awards Distribution followed by **In-Person Clossing Remarks**

D 4	
Day-4, Thursday	Online Western European Summer Time (WEST) October 30, 2025
10:20	AV Check
10:30	Introduction and Day 4 Opening Remarks
	Keynote
10:40	Building Human Organs with Butterfly, Graphene and Stem Cell Alexander Seifalian, NanoRegMed Ltd, Nanoloom Ltd, & Liberum Health Ltd, United Kingdom
Online Sy	mposium 1: Future Biomaterials-Biomedical, Medicine and Other Applications
	Chair: TBA
11:10	"Smart" Photoactive Theranostic Nanoplatforms for Precision Cancer Therapy Ding-Kun Ji, Shanghai Jiao Tong University, China
11:30	Mechanics Meets Light in Biomaterials: Novel MechanoOptical Biomarkers for Cancer and Pulmonary Fibrosis Andreas Stylianou, European University Cyprus/ EUC Research Centre, Cyprus
11:50	3D Printed Magnetic Scaffolds for Precise and Tunable On-Demand Drug Delivery Elizabeth Rendon-Morale, University of Sussex, United Kingdom
	Online Symposium II: Nanotechnology and Nanomaterials
	Chair: TBA
12:10	Carbon Dots Powering Innovation in Health and Environment Gil Alberto Batista Gonçalves, University of Aveiro, Portugal
12:30	Effect of Graphene Additives on the Physical and Mechanical Properties of Zirconium Dioxide Edvin Hevorkian, University of Life Sciences in Lublin, Poland
Online	Symposium III: Future Materials for Energy, Environment and Sustainability
	Chair: TBA
12:50	Nanostructured Materials for Energy Conversion Maria Gimenez Lopez, CIQUS- University of Santiago de Compostela, Spain
13:10	Comparative Safety Assessment of Commercial Cylindrical 18650 Sodium-ion Cells and POLiS Reference Pouch Cells Carlos Ziebert, Karlsruhe Institute of Technology, Germany
13:30	Designing Carbonaceous Materials for Environmental Applications Nieves López Salas, Paderborn University, Germany
13:50	Mass Transport in Iron, FeCr Alloys and Ferritic Steels Olga Kulitckaya, University of Münster, Germany
14:10	E-Poster: Computational Evaluation of Copolymer Synthesizability for New Materials for Environmental Sustainability Sidh Jaddu, Thomas Jefferson High School For Science and Technology, United States

14:20 **Break** Online Symposium IV: Materials for Electronics, Optics and Photonics Chair: TBA Artificial Magnetoelectric Multiferroic Thin Films Combining Ferrites and Barym Titanate 14:30 Antoine Barbier, Université Paris-Saclay, CEA, CNRS, SPEC, France Highly Efficient Polymeric Electrochromic Devices- Modifying the Chemical Structure of the 14:50 **Chromophores and the Polymer Backbone** Laura Maggini, University of Vienna, Austria **Carbon Nanotube Device Engineering** 15:10 Taher Ghomian, University of Maine, United States **Exploring Thermoluminescence Properties of Gadolinium Aluminum Borate Phosphors Doped** 15:30 with Europium: Effects of Europium Incorporation Under Beta Radiation Osama Madkhali, Jazan University, Saudi Arabia YRP: On the Strong Composition Dependence of the Martensitic Transformation Temperature and 15:50 **Heat in Shape Memory Alloys** Asmaa Hassan, University of Debrecen, Hungary 16:05 Online Closing Remarks (Zoom Session)