



Antwerp, Belgium

10th EuChemS Chemistry Congress

euchems2026.eu

12 - 16 July 2026



EuChemS kvcv

Monday 13th July 2026
Congress theme:
Innovative Materials

Session	Timing	Presenter	Title	Topic ID
IM - D1 - O01	10:00-10:15	Gianluigi Albano	Emergent giant chiroptical response in thin films of a chiral organic dye	Molecular & low-dimensional
IM - D1 - O02	10:15-10:30	Chiara Baldi	Porphyrin-based Molecular Qubits: Spin-polarization mechanisms and surface deposition strategies	Molecular & low-dimensional
IM - D1 - O03	10:30-10:45	Sergio Moles Quintero	Unveiling Diradical Control of Single-Molecule Conductance: Beyond the HOMO-LUMO Picture	Molecular & low-dimensional
IM - D1 - O04	10:45-11:00	Sergio Moles Quintero	Engineering Indenofluorenes with Controlled Diradical Character and Excited-State Aromaticity toward Singlet Fission	Molecular & low-dimensional
IM - D1 - O05	11:00-11:15	Jesus Alejandro De Sousa Rodriguez	Chemically tuning the intersystem crosslink in SWCNTs towards quantum sensing	Molecular & low-dimensional
IM - D1 - O06	11:15-11:30	Garoé Medina-Aguilar	Novel pressure-driven halide substituted spin crossover complexes	Molecular & low-dimensional
IM - D1 - O07	11:30-11:45	Samara Medina Rivero	Triangulating Molecular Qubits	Molecular & low-dimensional
IM - D1 - O08	11:45-12:00	Hiba Sahnoune	Zwitterionic mixed-valence iron complexes: experimental and DFT investigation of charge localization	Molecular & low-dimensional
POSTER FLASH 12:00				
IM - D1 - F01		João Rodrigues	Exploring bioinspired complex coacervates as carriers of cell-loaded liquid-core capsules for biomedical applications	Exploring bioinspired complex
IM - D1 - F02		İlan devroey	Ultrafast charge transfer and coherent phonons in electroactive organic cation-templated low-dimensional perovskite analogues	Ultrafast charge transfer and
IM - D1 - F03		Catherine Amiens	Easy access to ϵ -Fe2N nanomaterials from Fe nanocrystals	Easy access to ϵ -Fe2N nanomaterials
IM - D1 - F04		Aleksandra Ciesielska	Twist and resist: Stability and Chiroptical Enhancement in Chiral Hybrid Perovskites	Twist and resist: Stability and
IM - D1 - F05		Robin Erkens	A Linear Carbazole-Based Phosphonic Acid for Enhanced Efficiency in 3D Perovskite Solar Cells	A Linear Carbazole-Based
IM - D1 - F06		Paola La Magna	Polymorphism in 2D HOIPs: Elastic and Optical Structure-Property Relationships	Polymorphism in 2D HOIPs: Elastic
Lunch				
IM - D1 - I01 14:00-14:30 Paolo Falcaro ZIP Biocomposites and the Synthesis-Property Relationship				
IM - D1 - O09	14:30-14:45	Chaohui He	Efficient Olefin/Alkane Separation via In-situ Cyano-Transformed Metal-Organic Frameworks	Framework & Porous Materials:
IM - D1 - O10	14:45-15:00	Maylis Georgelin	Study of Metal-Organic Frameworks for H/D/T isotopic separation	Framework & Porous Materials:
IM - D1 - O11	15:00-15:15	Alessandro Pedrini	Macrocycles-based porous organic polymers: enabling selective molecular separations and more	Framework & Porous Materials:
IM - D1 - O12	15:15-15:30	Ivana Bijlan	Azo-linked porphyrin-based porous organic polymers for efficient CO2 capture: an integrated approach	Framework & Porous Materials:
IM - D1 - O13	15:30-15:45	Maarten Smulders	On the importance of balancing the pKa of the additive in β -ketoenamine COF synthesis	Framework & Porous Materials:
IM - D1 - O14	15:45-16:00	Alexander Cruz	Metal-organic frameworks by vapor deposition processes: polymeric porous materials for integrated applications	Framework & Porous Materials:
Coffee break				
IM - D1 - O15	16:30-16:45	Filip Meysman	A brand new biomaterial for sustainable electronics: how bacteria invented MOF-based quantum wires -500 millions years ago	Framework & Porous Materials: Design & Control
IM - D1 - O16	16:45-17:00	Dirk Volkmer	Functional K3,3 ("Kuratowski") Building Units in Materials Chemistry: Past, Present, and Future	Framework & Porous Materials:
IM - D1 - O17	17:00-17:15	Paolo Ciolek Bruzzese	Spectroscopic mapping of tunable metal arrangements in metal-organic polyhedra and frameworks	Framework & Porous Materials:
IM - D1 - O18	17:15-17:30	Wafaa Ahmed Mohamed	Bismuth-based metal-organic frameworks as defect-engineered platforms for advanced optical applications	Framework & Porous Materials:
IM - D1 - O19	17:30-17:45	Min Ying Tsang	A Strategy to enhance photon upconversion emission in lanthanide metal-organic frameworks	Framework & Porous Materials:
IM - D1 - O20	17:45-18:00	Hilal Kalkan	Design and Structural Characterization of a Novel Corrole-Based Covalent Organic Framework (COF): A Strategic Approach for Metal Ion Sequestration	Framework & Porous Materials:
Posters				
IM - D1 - P01		Abdous Slimane	Lightweight Energetic Polymers for Next-Generation Ammunition	
IM - D1 - P02		Chabane Houssém	Ionic liquids: A new way in the preparation of sustainable PBSA nanobiocomposites	
IM - D1 - P03		Dechtrirat Decha	Sustainable synthesis of magnetic porous carbon composites from industrial and agricultural waste for tetracycline removal	
IM - D1 - P04		Um In Chul	Sericin-Driven Structural Compaction and Functional Enhancement in Carded Silk Nonwoven Fabrics	
IM - D1 - P05		Cruz Luís	Layer-by-Layer supramolecular assembly of boronic acid chalcone-containing biomembranes for pH-controlled complexation of catechol-rich polyphenols	
IM - D1 - P06		Staes Thomas	TI-based core-shell shaping for Ac-225/Bi-213 separation	
IM - D1 - P07		De Meester Féline	Unraveling competing reactions in the synthesis of renewable α -methylene- γ -valerolactone	
IM - D1 - P08		Concellón Alberto	Liquid Crystal Emulsions as Multifunctional Platforms for Soft Actuation and Adaptive Photonics	
IM - D1 - P09		De Herdt Zoë	RENOVATE-PU: Recycle the non-recyclable by valorizing industrial chemical recycling techniques for polyurethane	
IM - D1 - P10		Petralia Salvatore	Photochemical preparation of NIR-I emissive and photothermal ultrasmall gold nanocluster for biosensing application	
IM - D1 - P11		Chiang Tzu Hsuan	Synthesis of phosphorus-sulfur containing Schiff base by Kabachnik-Fields reaction	
IM - D1 - P12		Donohoe Aoife	3D printing of Liquid Crystalline Cellulose Photonic Micro-Actuators	
IM - D1 - P13		De Turck Wannes	Structural mapping of photosalient B-N molecular crystals featuring intermediary dimer clusters	
IM - D1 - P14		Mampay Jasper	Development of radiation-stable and selective sorbent materials for direct Bi-213 generators	
IM - D1 - P15		Pochet Corentin	Self-Assembled Polymer Heterojunctions for Solar to Hydrogen	
IM - D1 - P16		Mineo Placido	Stability Enhancement of Polyetherimide under Harsh Space Conditions via Covalently Bound Self-Passivating Silica Layers	
IM - D1 - P17		Ballesteros-Garrido Rafael	Metal ion-triggered Collapsed Hydrogels as new materials for bacterial population control	
IM - D1 - P18		Tordi Pietro	Ion-programmed biopolymer organohydrogels for multiresponsive soft electronics	
IM - D1 - P19		Lee Changyeon	Form-Factor Free, Liquid Crystal-based Gels for Biosensors	

IM - D1 - P20	Pedrola Teixell Marina	Rational Design of Lignin-Derived Bio-based Plasticizers for Sustainable Polymer Applications
IM - D1 - P21	Neri Giulia	Development of highly versatile Graphene-Poly(methacrylic acid) platforms: from CO2 capture to photothermal therapy
IM - D1 - P22	Abdul Rahim Mohammed Siddiq	Interfacial Effects of Monomeric and Dimeric Surfactants in Waste-Oil Microencapsulation for Advanced Self-Healing Materials
IM - D1 - P23	Balaba Nayara	Sustainable Anticorrosive Pigments from Mussels Shell By-Products
IM - D1 - P24	Nicosia Angelo	A curcumin-extract-containing copolymer as an optical sensor for volatile amines in smart food packaging applications
IM - D1 - P25	Dave Nandini	Light-Modulated, Color-Transformed Chemobionic Tubes for Memristive Device and Neuromorphic/Bio-Inspired Computing Applications
IM - D1 - P26	Claesen Brian	Phosphorylated lignin residues as a filler material for HDPE composites
IM - D1 - P27	Bruschetta Chiara	Comparative study of Novel and Commercial metal Catalysts in the MW-assisted Reductive Amination of Biomass-Derived Furfural



Tuesday 14th July 2026
Congress theme:
Innovative Materials

Session	Timing	Presenter	Title	Topic ID
IM - D2 - O01	10:00-10:15	Gianluigi Albano	Emergent giant chiroptical response in thin films of a chiral organic dye	Molecular & low-dimensional quantum materials
IM - D2 - O02	10:15-10:30	Annael Sort-Montenegro	Fast and Programmable Electro-Active Hydrogel Micro-Actuators Fabricated via 2PP	Functional Nanomaterials & Hybrid Architectures
IM - D2 - O03	10:30-10:45	Ileana Alexandra Pavel	One-step industrially scalable process for Multifunctional hybrid microparticles	Functional Nanomaterials & Hybrid Architectures
IM - D2 - O04	10:45-11:00	Jordi Volders	Size-dependent induction heating properties of octahedron-shaped Fe ₃ O ₄ nanoparticles near the multi-domain limit for (de)bonding on demand applications	Functional Nanomaterials & Hybrid Architectures
IM - D2 - O05	11:00-11:15	Marta Ruiz-Bermejo	From Prebiotic Chemistry to Nanostructured Materials: One-Pot Synthesis of Multifunctional C-N Systems from Diaminomaleonitrile for Photocatalytic Applications	Functional Nanomaterials & Hybrid Architectures
IM - D2 - O06	11:15-11:30	M. Angeles Herranz	Carbon Dots as Multifunctional Materials for Applications in Electronics, Catalysis, and Biomedicine	Functional Nanomaterials & Hybrid Architectures
IM - D2 - O07	11:30-11:45	Miguel Alexandre Ramos Docampo	One-step synthesis of micrometer scale chiral gold materials	Functional Nanomaterials & Hybrid Architectures
IM - D2 - O08	11:45-12:00	Oussama Mehelli	Boron-containing phthalonitrile thermosets for enhanced thermal neutron shielding	Functional Nanomaterials & Hybrid Architectures
POSTER FLASH 12:00				
IM - D2 - F01		GuanLin Wu	Impact of acceptor strength and backbone planarity on the charge transport of D-A conjugated polymers	
IM - D2 - F02		Anca Gabriela Mirea	Hydrazone-based covalent organic frameworks	
IM - D2 - F03		Brent Van Ballaer	Applying dissociative chemistry to obtain gradient hydrogels	
IM - D2 - F04		Anke Krueger	photoCORM functionalized nanodiamond particles as a novel tool for targeted tumour therapy	
IM - D2 - F05		Michal Rezanka	Cyclodextrin-Based Sorbents for Water Remediation	
IM - D2 - F06		Guangyuan Feng	In-situ Growth of Bilayer COF Heterojunctions for Memristor Devices	
IM - D2 - F07		Morgane Van Hove	ETS-10 coated honeycombs as possible candidate for CO2 capture in humid flue gas streams	
Lunch				
IM - D2 - I01 14:00-14:30 Silvia Greco				
Sustainable inorganic materials chemistry: tools and boundaries to rationally navigate the experimental parameters space				
IM - D2 - O09	14:30-14:45	Giorgio Tofani	Circular lignin epoxies: activation and functionalisation for BPA-free, self-healing thermosets	Sustainable & Circular Materials
IM - D2 - O10	14:45-15:00	Jonas Cassimon	Tagging for circularity: fluorescent tagging of polycondensation polymers to enable efficient sorting and enhancing recycling	Sustainable & Circular Materials
IM - D2 - O11	15:00-15:15	Elisa Giovanna Faggioli	Paper made greener: replacing commercial retention and wet strength additives with nanocellulose-based materials	Sustainable & Circular Materials
IM - D2 - O12	15:15-15:30	Maite Maguregui	Preserving the Past with Greener Materials: Multifunctional Nanocellulose Hydrogels and Cryogels for Cultural Heritage Conservation	Sustainable & Circular Materials
IM - D2 - O13	15:30-15:45	tbd		
IM - D2 - O14	15:45-16:00	Rut Sisó-Moliné	Sustainable Preparation of Nitrogen-Doped Carbon Dots for Improved Luminescent Sensing	Sustainable & Circular Materials
Coffee break				
IM - D2 - O15	16:30-16:45	Al-Amin Dhirani	From nano building-blocks to a new class of 2-D nanosheets	Functional Nanomaterials & Hybrid Architectures
IM - D2 - O16	16:45-17:00	Manal Alhamed	Fluorination-Based Molecular Design of NDI and PDI Copolymers for n-Type Organic Semiconductors	Functional Nanomaterials & Hybrid Architectures
IM - D2 - O17	17:00-17:15	tbd		
IM - D2 - O18	17:15-17:30	Ian Machado	Exploring the Er,Yb upconversion system for thermometry in the first biological window	Functional Nanomaterials & Hybrid Architectures
IM - D2 - O19	17:30-17:45	tbd		
IM - D2 - O20	17:45-18:00	Arad Lang	Thermally stable binary two-dimensional hybrid organic-inorganic perovskite glasses	Functional Nanomaterials & Hybrid Architectures
Posters				
IM - D2 - P01		Omar Haneen	Oil/Water-Selective Dissolvable Multi-Shell Core Composites for Chemical Autonomous Inflow Control Devices	
IM - D2 - P02		Wytrych Patrycja	Can POSS be used as radiative cooling materials?	
IM - D2 - P03		Germonpré Stijn	Structural Diversity in γ -CD-MOFs: Two New Polymorphs	
IM - D2 - P04		Oowski Franciszek	Modification of elastomeric blends for internal automotive seals using bio-based nano-adsorptive fillers	
IM - D2 - P05		Dobosz Adam	Low-temperature sulfur vulcanization of diene rubbers with the addition of nanofillers and properties of the elastomeric nanocomposites	
IM - D2 - P06		Saka Ece Tugba	Surface characterization and daylight-activated antibacterial performance of zn(II) Phthalocyanine-coated Titanium	
IM - D2 - P07		Lutowicz Iga	Synthesis of UV-Reactive Cellulose Derivatives for Membranes	
IM - D2 - P08		Pintilei Paula Stefana	Design and Preparation of Magnetic Peptide Hydrogels for the Remediation of Organic Dye-Polluted Water	
IM - D2 - P09		Corea Carmen	Nanocellulose extraction and valorization from Spent Coffee Grounds for primary and secondary packaging	
IM - D2 - P10		Victor Freitas	Understanding the Molecular Interaction Mechanisms of Wine-Waste Pigments and Biomordants to Produce Dyed Sustainable Wool Textiles	
IM - D2 - P11		Katsantonis Spyridon N.	Dependence of the optical properties of solid-state fluorescent carbon dots on temperature	
IM - D2 - P12		Graulus Geert-Jan	Heparin-binding domains in elastin-like proteins: a way towards improved tissue integration?	
IM - D2 - P13		Cataldini Simone	Bridging photoswitch and fluorescence features in artificial amphiphiles for membrane dynamics in liposomal vesicles	
IM - D2 - P14		Gomes Clara S. B.	Zinc-based BIAN complexes and Hydrogen-Bonded Organic Frameworks: sustainable photocatalysts for water-splitting hydrogen production	
IM - D2 - P15		Ramontja James	Enhanced flux and fouling performance via H ₂ N@ZSM-22 infused thin-film composite membranes on ZSM-22/PES-UF support	
IM - D2 - P16		Gahiff Feriel	Thermal and Energetic Behavior of Ammonium Nitrate modified with Nitrocellulose-Coated AlMg-NGO@Fe ₂ O ₃ Nanothermite	
IM - D2 - P17		Wolfson Adi	Heterogenization of metal catalyst on carrageenan polysaccharides for sustainable synthesis	
IM - D2 - P18		Elabed Makram	From Waste to Value-Added Polymers: Chemical Transformation of PET into Eco-Friendly Copolyesteramides	
IM - D2 - P19		Boukeciat Hami	Preparation and Characterization of Nitroated Nanostructured Cellulose/Nitrotriazolone Energetic Composites	
IM - D2 - P20		Escorihuela López Enrique	Molecular templates as platforms for controlled surface fabrication of molecular electronic devices	
IM - D2 - P21		Abdelhady Ahmed	Chemistry-driven design of hybrid halide perovskite heterostructures for multifunctional optoelectronic materials	
IM - D2 - P22		De Freitas Johnatan Duarte	Development of aggregation pheromone nano-releasers for the pest insects Rhynchophorus palmarum, Sitophilus oryzae, and S. zeamais: Sustainable use	
IM - D2 - P23		Chenicheni Ayoub	Sustainable Synthesis of Hierarchical NaY Nanocerolites: A Template-Free Approach via Multi-Parametric Hydrothermal Optimization	
IM - D2 - P24		Steinbrugger Magdalena	Greener synthetic strategies toward small-molecule organic semiconductors	
IM - D2 - P25		Nguyen Dien Duy	Fabrication of Robust Films of Electrochromic Materials: Towards Smart Device Applications	
IM - D2 - P26		Lee Hye Sun	Effect of PVA Concentration on the Morphology and Characteristics of Hydroxyapatite Microspheres Prepared by Spray Drying	
IM - D2 - P27		Orteza Khianne Ed Miquel Pajarillo	Upscaling the exfoliation process of montmorillonite for epoxy nanocomposites	



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Wednesday 15th July 2026
Congress theme:
Innovative Materials

Session	Timing	Presenter	Title	Topic ID
IM - D3 - O01	10:00-10:15	Just Pé Jonasse	Nanoscale Strain-Engineering Controls Hydrogen Reactivity in Nanoparticle Catalysts	Functional Interfaces
IM - D3 - O02	10:15-10:30	Jessi Van Der Hoeven	Strain-Modulated Hydrogen-Deuterium Exchange over Au-Pd Core-Shell Nanocatalysts	Functional Interfaces
IM - D3 - O03	10:30-10:45	Jennifer Hong	Rationalizing Compositional Effects of High Entropy Alloy Nanocrystals on Electrocatalysis	Functional Interfaces
IM - D3 - O04	10:45-11:00	Marc Morant Giner	A novel coordination polymer made from lanthanide nodes and ferrocene-based linkers with notable hydrogen evolution reaction activity	Functional Interfaces
IM - D3 - O05	11:00-11:15	Michal Otvepka	Single-Atom Chemistry on Functionalized Graphene Platforms	Functional Interfaces
IM - D3 - O06	11:15-11:30	Oliver Diwald	Intergranular Chemistry inside Metal Oxide Compacts and Sintering	Functional Interfaces
IM - D3 - O07	11:30-11:45	Paolo Fichera	Copper-Modified Hydroxyapatite Surfaces as Catalysts in Environmental Processes: A Computational Perspective	Functional Interfaces
IM - D3 - O08	11:45-12:00	Sahra Sheikh Aleslami	Quantitative study of quartz sand mechanoradicals generated by ball milling	Functional Interfaces
POSTER FLASH 12:00				
IM - D3 - F01		Jie Zhang	From 1D to 2D: On-Surface Synthesis of Conjugated Polydiacetylene Monolayers	
IM - D3 - F02		Jennifer Theissen	Beware of the structure: Insights into the Phosphorus Dynamics of post-synthetically modified NU1000 in the presence of water	
IM - D3 - F03		Tom Althaus	Electrosynthesis of Molecular Cluster Assembly Materials with Hierarchical Porosity	
IM - D3 - F04		Michela Tramontini	Bio-based polymeric films for the photocatalytic degradation of contaminants of emerging concern in aqueous media	
IM - D3 - F05		Ming Liu	Design functions in porous organic cages	
IM - D3 - F06		Debora Briganti	Engineering nanoscale amorphous calcium phosphate through molecular and polymeric stabilization strategies	
Lunch				
IM - D3 - I01	14:00-14:30	Maria Lukatskaya	Engineering local chemical environments for sustainable energy systems	
IM - D3 - O09	14:30-14:45	Thomas Fässler	Boosting room-temperature lithium-ion conductivity in lithium phosphide and antimonide above 40 mS/cm	Materials for Energy Storage & Electrochemical Materials
IM - D3 - O10	14:45-15:00	tbd		
IM - D3 - O11	15:00-15:15	tbd	Biopolymer-Based Solid Electrolyte Membranes for Sustainable Electrochemical Energy Devices	Materials for Energy Storage & Electrochemical Materials
IM - D3 - O12	15:15-15:30			
IM - D3 - O13	15:30-15:45	Kezia Sasitharan	When Frameworks Breathe: Soft MOFs for light-driven self-cooling energy storage	Materials for Energy Storage & Electrochemical Materials
IM - D3 - O14	15:45-16:00	Irene Motta	Bifunctional luminescent Eu ³⁺ -doped PMMA for Building-Integrated Photovoltaics and visible-blind UV sensing	Materials for Energy Storage & Electrochemical Materials
Coffee break				
IM - D3 - O15	16:30-16:45	Mathijs Born	Structured steel fiber-zeolite composites for CO ₂ capture via magnetic induction swing adsorption	Functional Interfaces
IM - D3 - O16	16:45-17:00	Farnoosh Hormozinezhad	Additively Manufactured Biomass-Based 3D Carbon Frameworks as Tunable Supports for Non-Noble HER Catalysts	Functional Interfaces
IM - D3 - O17	17:00-17:15	Isabel Barbosa	3D-Printed Photocatalytic Reactors: Integrating Stereolithography with Hybrid TiO ₂ Materials	Functional Interfaces
IM - D3 - O18	17:15-17:30	Alina Petrovskaia	Metal (oxo)clusters as photoinitiators: a direct route to covalently integrated PEGDA-hybrid hydrogels	Functional Interfaces
IM - D3 - O19	17:30-17:45	Stefano Ippolito	Harnessing the Chemistry of Two-Dimensional Materials	Functional Interfaces
IM - D3 - O20	17:45-18:00	José A. Pomposo	Turning PVC Waste into Value: Upcycled PVC-Based Single-Chain Nanoparticles for Catalytic Applications	Functional Interfaces
Posters				
IM - D3 - P01		Hussain Abrar	Fabrication of a Symmetrical Ligand-Modified Porous Silicon Photoluminescence Sensor for Metal Detection	
IM - D3 - P02		Ouahioune Sylla	Design and characterization of a promising chitin-based energetic polysaccharide	
IM - D3 - P03		Liari Evelina	Bio-functionalizing optically active HfO ₂ nanoparticles with bisphosphonates	
IM - D3 - P04		Bicil Zeynep	Experimental investigation of hydrogen storage in defective fullerenes	
IM - D3 - P05		Doğan Mehmet	Lithium-induced defect design in fullerene structures for enhanced hydrogen storage	
IM - D3 - P06		Kocer Kizilduman Berna	MOF-5-Based Fullerene Nanocomposites for Enhanced Hydrogen Storage Applications	
IM - D3 - P07		Doğan Serap	Functionalized carbon nanotube-based affinity matrices for efficient purification and kinetic evaluation of polyphenol oxidase	
IM - D3 - P08		Turhan Yasemin	Defect-dopant interactions in graphene-fullerene nanocomposites for hydrogen storage	
IM - D3 - P09		Htwe Ye Zar Ni	Novel Eco-Friendly Green Surfactants Assisted Water-Based Carbon Nanotube Conductive Inks for Inkjet Printed Biodegradable Strain Sensor	
IM - D3 - P10		Calvino Martina Maria	Halloysite clay nanotubes as precursors for multifunctional geopolymeric materials	
IM - D3 - P11		Busila Mariana	Multifunctional degradable titanium coatings for osteointegrative and antimicrobial surfaces	
IM - D3 - P12		Tabassum Nabila	Role of Annealing in Tailoring Crystal Structure and Phase Stability of Al ₂ CoCrFeNi High-Entropy Alloys	
IM - D3 - P13		Waheed Abdul	Development of 2D nanosheets of lanthanide-based metal organic frameworks for developing a super-hydrophilic and super-oleophobic (underwater) selective layer on a ceramic support for separation of surfactant-stabilized oil-in-water emulsions	
IM - D3 - P14		Han Seungyun	Development of Spherical Mg-Al Silicate Composites for Simplified Purification and Enhanced Filtration of C.A.S.E. Polyols	
IM - D3 - P15		Abdelaziz Amir	Study of the Thermal and Kinetic behavior of Nitrocellulose-Coated AP/AN Energetic Cocrystral oxidizer	
IM - D3 - P16		Berjjan Jenrik	Ultrathin macroporous substrates for near-field microscopy on free-standing membranes	
IM - D3 - P17		Soeteman-Hernandez Lya	Safe-and-sustainable-by-design (SSbD): State of the art and lessons learned for safer and more sustainable chemicals, materials, processes and products	
IM - D3 - P18		Sisó-Moliné Rut	Carbon Dots from Renewable Biomass Precursors: Processing Parameters and Optical Response	
IM - D3 - P19		Tokoyri Vuyulwethu	IS@ZIF-8 MOF composites as potential catalysts for the conversion of glucose to lactic acid	
IM - D3 - P20		Homayra Aysha	Investigating Nickel(II)-NSAID Complex as Novel Therapeutic Agents Against Osteosarcoma Stem Cells and its mechanism of action	
IM - D3 - P21		Saeed Tooba	Synthesis of chitosan composite of metal-organic framework for the adsorption of dyes: kinetic and thermodynamic approach	
IM - D3 - P22		Tshekorsky Orlof Runa	Imination of aminocaprolactam with bio-based aldehydes to produce bio-based polyamides	
IM - D3 - P23		Ruiz Guerrón Juan Francisco	Polymerization of Malononitrile Dimer: A New Route for Construction of Nitrogen-Rich Polytriazines with Functional Properties	
IM - D3 - P24		Geesl Mohammed	Biogenic synthesis of zinc oxide nanostructures using Adansonia digitata peel extract for sildenafil degradation and photocatalytic performance	
IM - D3 - P25		Özbal Aysegül	Self-assembly of an amphiphilic copolymer and its potential as drug delivery systems	
IM - D3 - P26		Dzene Liva	Design of new PEG-silicized fillers inspired by talc-like structures	
IM - D3 - P27		Acquavia Maria Assunta	Mass spectrometry-driven evaluation of antioxidant thermoplastic polyurethane films for waste cooking oil storage	



Thursday 16th July 2026

Congress theme:
Innovative Materials

Session	Timing	Presenter	Title	Topic ID
IM - D4 - O01	10:00-10:15	Almudena Marti	Interface-Engineered MoS ₂ Photo-Nanozymes as Multifunctional Materials for Precision Catalytic Cancer Therapy	Bio-Inspired & Biomedical Materials
IM - D4 - O02	10:15-10:30	Concetta Di Natale	Rheology-guided development of polymeric microneedles for controlled delivery of pembrolizumab in triple-negative breast cancer	Bio-Inspired & Biomedical Materials
IM - D4 - O03	10:30-10:45	Alexandre Lancelot	Multidentate catechol-functionalized biomimetic dendrimers: self-assembly and adhesion	Bio-Inspired & Biomedical Materials
IM - D4 - O04	10:45-11:00	Pierangelo Metrangolo	Brominated tyrosines: From pathology biomarkers to the design of resilient and strain-stiffening peptide-based materials	Bio-Inspired & Biomedical Materials
IM - D4 - O05	11:00-11:15	Shubham Tiwari	From Laboratory to Reality: Surface Engineering by Hydrogel Transfer Printing	Bio-Inspired & Biomedical Materials
IM - D4 - O06	11:15-11:30	Carlotta Pontremoli	Efficient Immobilization and Recovery of the C-H Bond-Activating LsAA9A on Functionalized Mesoporous Silica	Bio-Inspired & Biomedical Materials
IM - D4 - O07	11:30-11:45	Imogen Riddell	Enhanced stability and reusability of recombinant silicatein upon biomimetic metal-organic framework crystallization	Bio-Inspired & Biomedical Materials
IM - D4 - O08	11:45-12:00	Maria Nerantzaki	Integrating precision polymer synthesis with DNA nanotechnology for advanced hybrid materials	Bio-Inspired & Biomedical Materials
POSTER FLASH 12:00				
IM - D4 - F01		Alejandro Martinez Bueno	Nanoporous Liquid Crystal Networks as metallic nanoparticle templates	
IM - D4 - F02		Maria Gutiérrez-Blanco	Molybdenum sulfide - chitosan hydrogels as model platforms for the delivery of Antibody-Drug Conjugates	
IM - D4 - F03		Mujahid Mustaqeem	Circularly Polarized Spin Light Emitting Diodes from Chiral Two-Dimensional Superlattices	
IM - D4 - F04		Laura Huidobro Rodríguez	Electrospun TiO ₂ /BiOI heterostructured nanofibers for solar-driven water decontamination	
Lunch				
IM - D4 - I01	14:00-14:30	Bruno Grignard	When CO ₂ replaces isocyanates in Polyurethane Foams: From Rapid Room-Temperature Self-Blowing Processing to End-of-Life Solutions	
IM - D4 - O09	14:30-14:45	Larisa Florea	Functional Hydrogel Microstructures: Design, Fabrication and Stimulus-Induced Actuation	Advanced Polymer Platforms for Fabrication & Responsive Systems
IM - D4 - O10	14:45-15:00	Marco Carlotti	Two-photon lithography as enabling technology for the fabrication of conformal electrodes on 3D microstructures and devices	Advanced Polymer Platforms for Fabrication & Responsive Systems
IM - D4 - O11	15:00-15:15	Robin Dantinne	Understanding plasma polymerization using complex geometry substrates : a step toward the design of gradient nanostructures	Advanced Polymer Platforms for Fabrication & Responsive Systems
IM - D4 - O12	15:15-15:30	Patrycja Wytrych	PDMS-based nano- and microstructures for tailoring optical properties across the hyperspectral range	Advanced Polymer Platforms for Fabrication & Responsive Systems
Posters				
IM - D4 - P01		Ozmen Pinar	Enhancing the Flame Retardant Performance of Expandable Polystyrene Using Halogen-Free Additives and Synergists	
IM - D4 - P02		Ös Muratcan	Two Salt-Surfactant Mesophases: Synthesis of Mesoporous MgM ₂ O ₄ (M=Mn, Fe and Co) Electrodes and Their Electrochemical Properties	
IM - D4 - P03		Singh Khushal	Multiplexed Au/Pt/Pd Plasmonic Nanorattles for Electronic Tongue-Based Detection of Breast Cancer in Urine	
IM - D4 - P04		Huidobro Rodríguez Laura	Engineered BiOI-based nanowires synthesized by template-assisted electrodeposition for enhanced visible-light water purification	
IM - D4 - P05		Saka Ece Tugba	Calcane-Schiff Base Hybrids Coated Titanium Surfaces With Light-Induced Antibacterial Activity	
IM - D4 - P06		Munir Asma	Rice Husk Lignin as a tunable Platform for Biomass Valorization and Circular Materials	
IM - D4 - P07		Picca Rosaria Anna	Electrosynthesis of Zinc-Based Inorganic Antimicrobials	
IM - D4 - P08		Diaz De Tuesta Jose Luis	Impact of PZA Incorporation on the thermal stability, carbon yield, and electrical conductivity of 3D-printed polymer-derived carbons	
IM - D4 - P09		Bensedira Abderrahim	Effect of anionic polarizabilities on the electrical conductivity of the system PANI/salt	
IM - D4 - P10		Delaney Colm	3D Printing of Nanocomposites-some assembly required	
IM - D4 - P11		Sivaev Iqor	New anthryl and pyrenyl derivatives of carboranes. Synthesis, structure and luminescence properties	
IM - D4 - P12		Salinas Soler Yolanda	Silica-based degradable micromotors with potential environmental and health impact	
IM - D4 - P13		Garcia Sara	In situ COF-modified PVDF membranes via temperature catalyzed coupling reaction	
IM - D4 - P14		Çam Seyma	Hydrothermal titanium doping of defect-engineered fullerenes for enhanced hydrogen storage	
IM - D4 - P15		Abhijit Nag	Efficient Dissolution and Selective Recovery of Gold from Electronic Waste Using a Recyclable Ionic Medium	
IM - D4 - P16		Biswajit Mondal	Slow magnetic relaxation in lanthanide-doped metal nanoparticles	
IM - D4 - P17		Ilma Amalina	Magnetically Induced Drug Release from Doxorubicin-Loaded Niosome Nanocarriers	
IM - D4 - P18		Lamiaa Farahat	Porphyrin-Paracyclophane Based Porous Micropolymer: A New Framework for Functional Carbon Materials	
IM - D4 - P19		Mohammed Fouzi Ghorab	Synthesis, characterization and use of the ZnO/AC for the solar driven degradation of methylene blue	
IM - D4 - P20		Rohan Singh Pal	Synthesis and Characterization of Mixed-Metal UiO-66 Metal Organic Frameworks for Liquid-Phase Toluene Oxidation	
IM - D4 - P21		Abdilla Roderick	Exploring composite hydrogel systems using solid state NMR	
IM - D4 - P22		Marina Piacenti-Silva	A Multifunctional Nitrogen-Doped Magnetic Graphene Oxide Nanocomposite Prepared by One-Step Microwave-Assisted Synthesis	
IM - D4 - P23		Nina Popov	Near-infrared photochromic switching in upconversion nanoparticle-diarylethene hybrid polymer films	
IM - D4 - P24		Nur Alif Fathurrahman	Theoretical insight into reversible hydrogen storage in (BC ₂ N) ₅ and (BC ₂ N) ₆ nanocages: Host topology and metal-decoration effects	
IM - D4 - P25		Faizah Altaf	Multifunctional Novel Materials for CO ₂ Capture and Nutrient Delivery: Advanced Soil Amendments to Enhance Soil Health and Crops Growth	