



Antwerp, Belgium

10th EuChemS Chemistry Congress

euchems2026.eu

12 - 16 July 2026



Monday 14th July 2026

Congress theme:
Innovative Materials

Session	Timing	Presenter	Title	Topic ID
1	10:00-10:15	Gianluigi Albano	Emergent giant chiroptical response in thin films of a chiral organic dye	Molecular & low-dimensional quantum materials
2	10:15-10:30	Chiara Baldi	Porphyrin-based Molecular Qubits: Spin-polarization mechanisms and surface deposition strategies	Molecular & low-dimensional quantum materials
3	10:30-10:45	Sergio Moles Quintero	Unveiling Diradical Control of Single-Molecule Conductance: Beyond the HOMO-LUMO Picture	Molecular & low-dimensional quantum materials
4	10:45-11:00	Sergio Moles Quintero	Engineering Indenofluorenes with Controlled Diradical Character and Excited-State Aromaticity toward Singlet Fission	Molecular & low-dimensional quantum materials
5	11:00-11:15	Jesus Alejandro De Sousa Rodriguez	Chemically tuning the intersystem crossing in SWCNTs towards quantum sensing	Molecular & low-dimensional quantum materials
6	11:15-11:30	Garoé Medina-Aguilar	Novel pressure-driven halide substituted spin crossover complexes	Molecular & low-dimensional quantum materials
7	11:30-11:45	Samara Medina Rivero	Triangulating Molecular Qubits	Molecular & low-dimensional quantum materials
8	11:45-12:00	Hiba Sahnoune	Zwitterionic mixed-valence iron complexes: experimental and DFT investigation of charge localization	Molecular & low-dimensional quantum materials
Invited lecture	14:00-14:30	Paolo Falcaro	ZIF Biocomposites and the Synthesis-Property Relationship	
3	14:30-14:45	Chaohui He	Efficient Olefin/Alkane Separation via In-situ Cyano-Transformed Metal-Organic Frameworks	Framework & Porous Materials: Design & Control
4	14:45-15:00	Maylis Georgelin	Study of Metal-Organic Frameworks for H/D/T isotopic separation	Framework & Porous Materials: Design & Control
5	15:00-15:15	Alessandro Pedrini	Macrocycles-based porous organic polymers: enabling selective molecular separations and more	Framework & Porous Materials: Design & Control
6	15:15-15:30	Ivana Biljan	Azo-linked porphyrin-based porous organic polymers for efficient CO ₂ capture: an integrated approach	Framework & Porous Materials: Design & Control
7	15:30-15:45	Maarten Smulders	On the importance of balancing the pK _a of the additive in β -ketoenamine COF synthesis	Framework & Porous Materials: Design & Control
8	15:45-16:00	Alexander Cruz	Metal-organic frameworks by vapor deposition processes: polymeric porous materials for integrated applications	Framework & Porous Materials: Design & Control
1	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
2	16:45-17:00	Dirk Volkmer	Functional K ₃ ,3 ("Kuratowski") Building Units in Materials Chemistry: Past, Present, and Future	Framework & Porous Materials: Design & Control
3	17:00-17:15	Paolo Cleto Bruzzese	Spectroscopic mapping of tunable metal arrangements in metal-organic polyhedra and frameworks	Framework & Porous Materials: Design & Control
4	17:15-17:30	Wafaa Ahmed Mohamed	Bismuth-based metal-organic frameworks as defect-engineered platforms for advanced optical applications	Framework & Porous Materials: Design & Control
5	17:30-17:45	Min Ying Tsang	A Strategy to enhance photon upconversion emission in lanthanide metal-organic frameworks	Framework & Porous Materials: Design & Control
6	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: Design & Control



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1	10:00-10:15	tbd		
2	10:15-10:30	Annael Sort-Montenegro	Fast and Programmable Electro-Active Hydrogel Micro-Actuators Fabricated via 2PP	Functional Nanomaterials & Hybrid Architectures
3	10:30-10:45	Ileana Alexandra Pavel	One-step industrially scalable process for Multifunctional hybrid microparticles	Functional Nanomaterials & Hybrid Architectures
4	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
5	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
6	11:15-11:30	M. Ángeles Herranz	Carbon Dots as Multifunctional Materials for Applications in Electronics, Catalysis, and Biomedicine	Functional Nanomaterials & Hybrid Architectures
7	11:30-11:45	Miguel Alexandre Ramos Docampo	One-step synthesis of micrometer scale chiral gold materials	Functional Nanomaterials & Hybrid Architectures
8	11:45-12:00	Oussama Mehelli	Boron-containing phthalonitrile thermosets for enhanced thermal neutron shielding	Functional Nanomaterials & Hybrid Architectures
Invited lecture	14:00-14:30	Silvia Gross	Sustainable inorganic materials chemistry: tools and boundaries to rationally navigate the experimental parameters space	
3	14:30-14:45	Giorgio Tofani	Circular lignin epoxies: activation and functionalisation for BPA-free, self-healing thermosets	Sustainable & Circular Materials
4	14:45-15:00	Jonas Cassimon	Tagging for circularity: fluorescent tagging of polycondensation polymers to enable efficient sorting and enhancing recycling	Sustainable & Circular Materials
5	15:00-15:15	Elisa Giovanna Faggioli	Paper made greener: replacing commercial retention and wet strength additives with nanocellulose-based materials	Sustainable & Circular Materials
6	15:15-15:30	Maite Maguregui	Preserving the Past with Greener Materials: Multifunctional Nanocellulose Hydrogels and Cryogels for Cultural Heritage Conservation	Sustainable & Circular Materials
7	15:30-15:45	tbd		
8	15:45-16:00	Rut Sisó-Moliné	Sustainable Preparation of Nitrogen-Doped Carbon Dots for Improved Luminescent Sensing	Sustainable & Circular Materials
1	16:30-16:45	Al-Amin Dhirani	From nano building-blocks to a new class of 2-D nanosheets	Functional Nanomaterials & Hybrid Architectures
2	16:45-17:00	Manal Alhmandan	Fluorination-Based Molecular Design of NDI and PDI Copolymers for n-Type Organic Semiconductors	Functional Nanomaterials & Hybrid Architectures
3	17:00-17:15	tbd		
4	17:15-17:30	Ian Machado	Exploring the Er,Yb upconversion system for thermometry in the first biological window	Functional Nanomaterials & Hybrid Architectures
5	17:30-17:45	tbd		
6	17:45-18:00	Arad Lang	Thermally stable binary two-dimensional hybrid organic-inorganic perovskite glasses	Functional Nanomaterials & Hybrid Architectures



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Wednesday 15th July 2026

Congress theme:
Innovative Materials

Session	Timing	Presenter	Title	Topic ID
1	10:00-10:15	Just Pé Jonasse	Nanoscale Strain-Engineering Controls Hydrogen Reactivity in Nanoparticle Catalysts	Functional Interfaces
2	10:15-10:30	Jessi Van Der Hoeven	Strain-Modulated Hydrogen-Deuterium Exchange over Au-Pd Core-Shell Nanocatalysts	Functional Interfaces
3	10:30-10:45	Jennifer Hong	Rationalizing Compositional Effects of High Entropy Alloy Nanocrystals on Electrocatalysis	Functional Interfaces
4	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
5	11:00-11:15	Michal Otyepka	Single-Atom Chemistry on Functionalized Graphene Platforms	Functional Interfaces
6	11:15-11:30	Oliver Diwald	Intergranular Chemistry inside Metal Oxide Compacts and Sintering	Functional Interfaces
7	11:30-11:45	Paolo Fichera	Copper-Modified Hydroxyapatite Surfaces as Catalysts in Environmental Processes: A Computational Perspective	Functional Interfaces
8	11:45-12:00	Sahra Sheikh Aleslami	Quantitative study of quartz sand mechanoradicals generated by ball milling	Functional Interfaces
Invited lecture	14:00-14:30	Maria Lukatskaya	Engineering local chemical environments for sustainable energy systems	
3	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
4	14:45-15:00	tbd		
5	15:00-15:15	tbd	Biopolymer-Based Solid Electrolyte Membranes for Sustainable Electrochemical Energy Devices	Materials for Energy Storage & Electrochemical Materials
6	15:15-15:30			
7	15:30-15:45	Kezia Sasitharan	When Frameworks Breathe: Soft MOFs for light-driven self-cooling energy storage	Materials for Energy Storage & Electrochemical Materials
8	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
1	16:30-16:45	Mathijs Born	Structured steel fiber-zeolite composites for CO ₂ capture via magnetic induction swing adsorption	Functional Interfaces
2	16:45-17:00	Farnoosh Hormozinezhad	Additively Manufactured Biomass-Based 3D Carbon Frameworks as Tunable Supports for Non-Noble HER Catalysts	Functional Interfaces
3	17:00-17:15	Isabel Barbosa	3D-Printed Photocatalytic Reactors: Integrating Stereolithography with Hybrid TiO ₂ Materials	Functional Interfaces
4	17:15-17:30	Alina Petrovskaia	Metal (oxo)clusters as photoinitiators: a direct route to covalently integrated PEGDA-hybrid hydrogels	Functional Interfaces
5	17:30-17:45	Stefano Ippolito	Harnessing the Chemistry of Two-Dimensional Materials	Functional Interfaces
6	17:45-18:00	José A. Pomposo	Turning PVC Waste into Value: Upcycled PVC-Based Single-Chain Nanoparticles for Catalytic Applications	Functional Interfaces



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Thursday 16th July 2026

Congress theme:
Innovative Materials

Session	Timing	Presenter	Title	Topic ID
1	10:00-10:15	Almudena Marti	Interface-Engineered MoS ₂ Photo-Nanozymes as Multifunctional Materials for Precision Catalytic Cancer Therapy	Bio-Inspired & Biomedical Materials
2	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
3	10:30-10:45	Alexandre Lancelot	Multidentate catechol-functionalized biomimetic dendrimers: self-assembly and adhesion	Bio-Inspired & Biomedical Materials
4	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
5	11:00-11:15	Shubham Tiwari	From Laboratory to Reality: Surface Engineering by Hydrogel Transfer Printing.	Bio-Inspired & Biomedical Materials
6	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
7	11:30-11:45	Imogen Riddell	Enhanced stability and reusability of recombinant silicatein upon biomimetic metal-organic framework crystallization	Bio-Inspired & Biomedical Materials
8	11:45-12:00	Maria Nerantzaki	Integrating precision polymer synthesis with DNA nanotechnology for advanced hybrid materials	Bio-Inspired & Biomedical Materials
Invited lecture	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	
3	14:30-14:45	Larisa Florea	Functional Hydrogel Microstructures: Design, Fabrication and Stimulus-Induced Actuation	Advanced Polymer Platforms for Fabrication & Responsive Systems
4	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
5	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
6	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