

TUESDAY SEPTEMBER 16, 2025

08:00-08:45	Registration	
08:45-09:00	Opening Ceremony	
09:00-09:40	Krasimir Vasilev (Flinders University, Australia) Nanoengineered Materials and Coatings for Medicine and Beyond	K
09:40-10:10	Behnam Akhavan (University of Newcastle, Australia) Plasma bio-engineering of porous materials for tissue engineering and regenerative medicine applications	I
10:10-10:25	Akash Bachhuka (ICIQ, Spain) Nanoscale Surface Engineering for Enhanced Cellular Interaction, Controlled Drug Delivery, and Biosensor Development	O
10:25-11:20	Coffee Break / Poster Session	
11:20-12:00	Li-Hsien Yeh (National Taiwan University of Science and Technology, Taiwan) Towards Ultrahigh Osmotic Energy Harvesting by MOF and COF Based Ionic Diode Membranes	K
12:00-12:15	Avni Berisha (University of Prishtina, Republic of Kosovo) Multiscale Simulation of PFOS and PFOA Capture Inside a Molecular 'Cage of Cages'	O
12:15-12:30	Meryem Mounaj (Université Polytechnique Hauts-de-France, France) Additive Manufacturing of Catalyst Supports for the Conversion of Bio-sourced Molecules	O
12:30-12:45	Aurelien Viterisi (Institute of Analytical Sciences and Physical Chemistry for the Environment and Materials, France) Nanoporous anodic alumina membranes as gas diffusion layers for CO ₂ reduction catalysts	O
12:45-13:00	Gregor Žerjav (National Institute of Chemistry, Slovenia) Influence of platinum loading on the height of the Schottky barrier in TiO ₂ -based photothermal catalysts	O
13:00-13:15	Marina Pedrola Teixell (Eurecat, Spain) Highlighting a Ceria-Enhanced Nickel Catalyst for Efficient Low-Temperature Methanation	O
13:15-13:30	Angel Rodríguez (Universidad Politécnica de Cataluña, Spain) Dual Pathways to Hydrogen: Microchannel Reforming and Photocatalysis on Macroporous Silicon Structured Supports	O
13:30-14:30	Cocktail Lunch (offered by Netpore2025 organisers)	
14:30-15:00	Poster Session I	
15:00-15:40	Nicolas Voelcker (Monash University, Australia) Porous silicon biosensors for miRNA detection	K
15:40-16:10	Giuseppe Barillaro (University of Pisa, Italy) Real-Time Biomarker Detection via Bioresorbable Implants Paired with a Wearable Patch	I
16:10-16:40	Ester Segal (Technion - Israel Institute of Technology, Israel) Nanotechnologies for Detecting and Mitigating Antimicrobial Resistant Bacteria	I
16:40-17:10	Coffee Break / Poster Session	
17:10-17:50	Xu Hou (Xiamen University, China) Bioinspired Multiscale Pore/Channel Systems	K
17:50-18:10	Ciro Chiappini (King's College London, UK) Exploring the Cell with Nanoneedles	I
18:10-18:50	Abel Santos (University of Adelaide, Australia) Engineered Nanoporous Anodic Alumina and Applications	K

WEDNESDAY SEPTEMBER 17, 2025

09:00-09:30	Carlos Baleizão (University of Lisbon, Portugal) Tuning the morphology of smart hybrid mesoporous silica nanoparticles	I
09:30-10:00	Anton Fikai (National University of Science and Technology POLITEHNICA Bucharest, Romania) Current Trends in Synthesis and Use of Mesoporous Silica	I
10:00-10:30	Nataša Novak Tušar (National Institute of Chemistry, Slovenia) Mesoporous silica supported photocatalysts in water pollution remediation	I
10:30-11:20	Coffee Break / Poster Session	
11:20-12:00	Michael Sailor (University of California, San Diego, USA) Mesoporous Silicon in Degradable Drug Delivery Systems	K
12:00-12:30	Paula Ferreira (University of Aveiro, Portugal) Biocompatible Chitosan Scaffolds for Bone Tissue Engineering and Cancer Cell Eradication	I
12:30-13:00	Frederique Cunin (CNRS, France) Two-Photon Light Assisted Therapies with Porous Silicon Nanoparticles	I
13:00-13:30	Hélder Santos (UMCG, The Netherlands) Empowering porous silicon nanoparticles and metal-organic frameworks for solving medical problems: From cancer to heart diseases applications	I
13:30-14:30	Cocktail Lunch (offered by Netpore2025 organisers)	
14:30-15:00	Poster Session II	
15:00-15:30	Petra Granitzer (University Graz, Austria) Semiconducting/ferromagnetic nanocomposites investigated with respect to their temperature dependence and magnetic interactions	I
15:30-15:45	Klemens Rumpf (University of Graz, Austria) Arrays of FePt loaded nanostructured silicon offering high energy product	O
15:45-16:00	Francesco Enrichi (University of Verona, Italy) Luminescent porous materials for advanced optical applications	O
16:00-16:15	Anna Safonova (University of Verona, Italy) Tuning photoluminescence of Ag-doped 13X zeolites: Impact of synthesis strategy on luminescence enhancement and stability	O
16:15-16:30	Agnieszka Pieniazek (Military University of Technology, Poland) Spatially Resolved Cathodoluminescence Analysis of ZnO Infiltrated into Porous Anodic Alumina Pores	O
16:30-17:00	Coffee Break / Poster Session	
17:00-17:15	Grzegorz Sulka (Jagiellonian University, Poland) Anodic WO ₃ -Based Heterojunctions: Boosting Photoelectrochemical Water Splitting Efficiency	O
17:15-17:30	Inácio Pinho (Universidade do Porto, Portugal) 3rd Generation Solar Cells for Green H ₂ Production by Water Splitting	O
17:30-17:45	Sofia Gonçalves (Universidade do Porto - Faculdade de Ciências da Universidade do Porto / IFIMUP, Portugal) Unveiling Morphology-Structure Interplay on Hydrothermal WO ₃ Nanoplatelets for Photoelectrochemical Solar Water Splitting	O

THURSDAY SEPTEMBER 18, 2025

09:00-09:30	Jan Macák (University of Pardubice and Brno University of Technology, Czech Republic) Recent Advancements in Development of Anodic Metal Oxide Nanotubular and Nanoporous Layers	I
09:30-09:45	Małgorzata Norek (Military University of Technology, Poland) Functional properties of porous anodic alumina	O
09:45-10:00	Farbod Abazar (University of Pisa, Italy) Advancing On-Chip Micromotor Fabrication Through Electrochemical Micromachining of Silicon	O
10:00-10:15	Elisabet Xifre-Perez (Universitat Rovira i Virgili, Spain) Nanoconcavities-Patterned Aluminum Platforms for Advanced SERS Detection	O
10:15-10:30	Giorgi Shtenberg (Agricultural Research Organization Volcani Center, Israel) Sensitive detection of Salmonella Typhimurium with aptamer-modified nanozymes using porous silicon Fabry-Pérot interferometers	O
10:30-11:15	Coffee Break / Poster session	
11:15-11:45	Thierry Djenizian (Mines Saint-Etienne, France) Functionalized titania nanotubes as negative electrodes for Li-ion batteries	I
11:45-12:15	Hatice Duran (TOBB University of Economics and Technology, Ankara, Turkey) A New Perspective for Nanoconfined Crystals	I
12:15-12:45	Jarno Salonen (University of Turku, Finland) Enhanced thermally carbonized porous silicon for extreme harsh conditions	I
12:45-13:00	Christos Trapalis (National Centre for Scientific Research-Demokritos, Greece) CO ₂ reduction to nanocarbons with controlled morphology and high specific capacitance	O
13:00-13:15	João Pedro Correia (Universidade de Aveiro, Portugal) Transforming Fruit Waste into Climate Solutions: Apple Pomace-Derived Carbons for Methane Adsorption	O
13:15-13:30	Fernando G. Sá (University of Aveiro, Portugal) First and Second Harmonic Generation Study on Porous Bacterial Cellulose-ZnO composites	O
13:30	Closing	