

Tuesday, May 16

18:00 - 20:00

Registration

19:00 - 20:00

Welcome reception

Wednesday, May 17

Room Megas Alexandros
Chair: Pantelis N. Trikalitis

09:00-09:10

Welcome

09:10-09:50

Opening talk
Prof. Omar Yaghi
Ultra-porous crystals for a changing planet

09:50-10:10

3P Instruments, Diamond Sponsor
Sebastian Ehrling
Investigating of an industrial adsorbent for Direct Air Capture by gas flow methods

Room: Megas Alexandros

Session A1 - Chair:

Room: Achilles

Session B1 - Chair: Joumana Toufaily-Hamieh

10:10-10:30

Angiolina Comotti
The dynamical world of metal-organic frameworks

Invited Speaker
Prof. Ali Trabolsi
Smart materials for drug delivery

10:30-10:50

Charlotte Koschnick
Synthesis and real structure effects in Zr-Porphyrin-based MOFs

Yizhou Yang
Interfacial synthesis of three-dimensional covalent organic framework films

10:50-11:15

Coffee break

Chair:

Chair:

11:15-11:35

Dominik Eder
Selective ligand removal as a powerful strategy towards advanced photocatalysts

Kareem Yusuf
Crystallinity-dependent physicochemical properties of 2D COFs via inverse Gas chromatography

11:35-11:55

Anastasios Tasiopoulos
Fine tuning the hydrophobicity of a new Cu²⁺ 3-dimensional MOF through single - crystal coordinating ligand exchange transformations

Hossein Kazemian
Green and facile synthesis of a novel biopolymer metal-organic-framework hybrid for a pH-controlled oral drug release system

11:55-12:15

Julia Grüneberg
Towards 'Organic Zeolites' – Hybrid organic-inorganic frameworks from tetravalent silicate and aluminate tectons bridged by organic linkers

Tania Hidalgo
Immune/Chemo-active nanoMOFs for anti-COVID multi-therapy

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| 12:15-12:35 | <p>Bassem Almaythaly Three-membered ring structure in zeolitic imidazolate frameworks</p> | <p>Cristina Negro Ruiz (Multivariate)-Metal–Organic framework for highly efficient antibiotic capture from aquatic environmental matrices</p> |
| 12:35-12:55 | <p>Lawson Glasby Topological characterisation of MOFs in the Cambridge Structural Database (CSD)</p> | <p>Animesh Jha Porous titanium alloy and chitosan-calcium phosphate mineral composite for bone scaffold engineering applications</p> |
| 12:55-14:30 | Lunch break | |
| | Keynote Chair: Anastasios Tasiopoulos | |
| 14:30-15:00 | <p>Keynote Speaker Prof. Omar Farha Myths vs. Reality: Smart and programmable sponges from basic science to implementation and commercialization</p> | |
| | Room: Megas Alexandros Session A2 - Chair: | Room: Achilles Session B2 - Chair: |
| 15:00-15:20 | <p>Christian Doonan Crystalline porous frameworks as new platform materials for biocatalysis</p> | <p>Eleni Salonikidou Utilization of (Bio)waste and commercial nanoporous activated carbons for the deep adsorptive desulfurization of diesel fuel</p> |
| 15:20-15:40 | <p>Romy Ettliger Catch it – bind it – deactivate it: Metal-organic framework composites as active personal protective equipment</p> | <p>Juan José Villora Picó N-doped activated carbons from polymers - effect of steam activation conditions</p> |
| 15:40-16:00 | <p>Anna Pnevskaya Spectroscopic and DFT investigation of ethylene and 1-MCP binding sites in MOFs for food preservation technologies</p> | <p>Svetlana Novikova Ru catalysts on mesoporous carbon CMK-3 for hydrogenation of plant saccharides into polyols</p> |
| 16:00-16:20 | <p>Georges Mouchaham Ti-MOFs as promising photocatalysts for H₂ production</p> | <p>Ilya Menshchikov Long-term adsorption storage of liquefied natural gas vapors based on the capillary condensation effect in novel mesoporous carbons</p> |
| 16:20-16:45 | Coffee break | |
| | Chair: | Chair: |
| 16:45-17:05 | <p>Jin Shang Development of robust adsorbents with balanced binding affinity for ambient NO₂ adsorption</p> | <p>Marcellin Premila Jerome Development of cellulose-based composite adsorbents for CO₂ capture</p> |
| 17:05-17:25 | <p>Calogero Giancarlo Piscopo Activated carbon/Ni-MOF-74 composite with outstanding H₂S and NH₃ capture capacity</p> | <p>Daniel Pereira Understanding CO₂ sorption mechanisms in sustainable cellulose and chitosan aerogels</p> |
| 17:25-17:45 | <p>Ali Al Shakhs Modulator-directed synthesis of high density monolithic Zr-MOFs for exceptional volumetric hydrogen storage capacity</p> | <p>Nitasha Habib A novel IL/MOF/polymer mixed Matrix Membrane having Superior CO₂/N₂ Selectivity</p> |

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| 17:45-18:05 | <p>Alexandros Katsoulidis Ordered mixed linker fcu Zr MOF with rhombohedral structure discovered by high-throughput synthesis</p> | <p>Joeri Denayer Intensification of CO₂ capture and separation with hybrid adsorbents for combined vacuum-temperature swing adsorption</p> |
| <p>Keynote Chair: George Froudakis</p> | | |
| 18:05-18:35 | <p>Keynote Speaker: Prof. Mohamed Eddaoudi MOF Chemistry: Design strategies to Applications</p> | |
| 18:35-20:00 | <p>Poster Session</p> | |
| 20:00 | <p>Dinner</p> | |