21st Century Materials

Emerging Scholars at the Frontiers Symposium

Organized by Berkeley Global Science Institute, BCMaterials, United Arab Emirates University

8.11

6:00 Opening – Dean 6:10 Global Science – Omar Yaghi 6:20 Talk (30 + 10 min) – Sir Fraser Stoddart

7:00 Talk (15 + 5 min) – Evelyn Ploetz

Probing heterogeneity and local environment in MOFs

7:20 Talk (15 + 5 min) – Panče Naumov Making organic crystals smart

7:40 Talk (15 + 5 min) – Wei Zhu Nanomaterials-based Cell Biopreservation and Functionalization

8:00 Talk (15 + 5 min) – Romy Ettlinger Reflections on the Toxicity of MOF Nanoparticles'

8:20 Talk (15 + 5 min) – Zhe Ji Electric Field: A Unifying Language for Molecular Positioning, Interaction, and Catalysis

8:40 Talk (15 + 5 min) – Stefan Wuttke Reticular Nanoscience: Bottom-Up Assembly Nanotechnology

9:00 Final remark – Omar Yaghi

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6:00 Talk (30 + 10 min) – Artem Oganov Computational materials discovery

6:40 Talk (15 + 5 min) – Rahul Banerjee Covalent Organic Frameworks and Supramolecular Nano-Synthesis

7:00 Talk (15 + 5 min) – Joanna Gościańska Overcoming drug dosage challenge with mesoporous carbon carriers

7:20 Talk (15 + 5 min) – Stefano Canossa Single-crystal diffuse scattering: from landfill to gold mine in the next revolution of MOFs crystallography

7:40 Talk (15 + 5 min) – Francesca Peccati Artificial prion nanofibrils for bioinspired catalysis

8:00 Talk (15 + 5 min) – Vincent Guillerm Geometry mismatch in reticular chemistry: design out of the box

8:20 Talk (15 + 5 min) – Yuzhong Liu

8:40 Talk (15 + 5 min) – Christian Diercks Covalent Organic Frameworks for the Electrocatalytic Reduction of Carbon Dioxide in Water

9:00 Final remark – Stefan Wuttke

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6:00 Talk (30 + 10 min) – Hexiang Deng Mesoporous MOFs and Carbon Neutralization

6:40 Talk (15 + 5 min) – Lauren Macreadie

Tuning the structure-function properties of MOFs using bulky 3D-linkers

7:00 Talk (15 + 5 min) – Ali Trabolsi

Covalent Organic Frameworks (COFs) Based Smart Materials

7:20 Talk (15 + 5 min) – Gifth Mehlana

Metal-Organic Frameworks as platforms for carbon dioxide capture and conversion to high value chemicals

7:40 Talk (15 + 5 min) – Ha L. Nguyen

Rational Design in Covalent Organic Frameworks

8:00 Talk (15 + 5 min) – Roberto Fernández de Luis

Designing Enzyme-like Metal Pockets by Encoding Amino Acid Residues in Zirconium-based Metal-Organic Frameworks

8:20 Talk (15 + 5 min) – Franciose Noa

Using reticular chemistry for the design of metal-organic frameworks with exceptional topology properties

8:40 Talk (15 + 5 min) – Marc Zastrow

Publishing in Materials Science - How to Maximize your Success

9:00 Closing remark – Maamar Benkraouda