

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

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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

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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

9.11

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 Gościńska

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 Guillermin

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8:20 Talk (15 + 5 min) – Yuzhong Liu

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8:40 Talk (15 + 5 min) – Christian Diercks

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9:00 Final remark – Stefan Wuttke

10.11

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) – Gifith 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