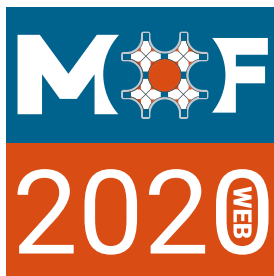




DECHEMA

Gesellschaft für Chemische Technik
und Biotechnologie e.V.



PROGRAMME

21 – 24 September 2020

MOF2020^{WEB}

**Virtual Conference on
Metal-Organic Frameworks and
Open Framework Compounds**

www.dechema.de/MOF2020web

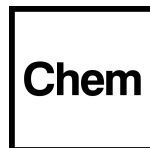


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ORGANIZER

DECHEMA e.V.
Theodor-Heuss-Allee 25
60486 Frankfurt/Main
Germany

CONTACT

Silke Rumpf-Kwasniok
Tel: +49 69 7564-280
E-Mail: silke.rumpf@dechema.de

www.dechema.de

PROGRAMME

Monday, 21 September**14.00 – 18.30h**

(Central European Summer Time/ UTC+02:00; Amsterdam, Berlin, Bern, Rom, Stockholm, Wien)

14.00h **Welcome and Introduction****PLENARY LECTURE**14.10h **Sequences in Reticular Structures: How to Read, Write, and Edit Them**

Prof. Omar Yaghi | University of California, Berkeley/USA

15.00h **Advanced Electron Diffraction Techniques for Ab Initio Structure Determination and Phase Analysis of Metal-Organic Frameworks and Covalent Organic Frameworks**

Prof. Xiaodong Zou | Stockholm University/S

15.35h **Autonomous screening of porous materials by combining molecular simulation and machine learning**

Prof. Tina Düren | University of Bath/UK

16.10h **Break**16.45h **MOF membranes in gas separation – supported layers contra mixed matrix, loser and winner**

Prof. Jürgen Caro | Leibniz University Hannover/D

EARLY CAREER AWARD LECTURE17.20h **Controlled polymerization and emergent properties of 2D Covalent Organic Frameworks**

Austin M. Evans | Northwestern University/USA

17.55h **From Molecular to Mesoscopic Level: Pore Engineering and Its Catalytic Applications**

Prof. Hong-Cai Joe Zhou | Texas A&M University, College Station/USA

18.30h **MEET THE EXHIBITORS
NETWORKING: Meet friends**

PROGRAMME

Tuesday, 22 September**12.30 – 17.05h**

(Central European Summer Time/ UTC+02:00; Amsterdam, Berlin, Bern, Rom, Stockholm, Wien)

12.30h **Welcome****PLENARY LECTURE**12.35h **PCP/MOF chemistry toward fourth generation (4G) compounds**

Prof. Susumu Kitagawa/Kyoto University/J

13.25h **Harnessing electroactivity in Metal-Organic Frameworks**

Prof. Deanna M. D'Alessandro/University of Sydney/AUS

EARLY CAREER AWARD LECTURE14.00h **Capture of nitrogen dioxide and conversion to nitric acid in a porous metal organic framework**

Jiangnan Li/The University of Manchester/UK

14.35h **Break****PLENARY LECTURE**15.05h **Responsive and disordered porous frameworks: connecting microscopic and macroscopic worlds**

Prof. François-Xavier Coudert/Université Paris Sciences et Lettres/F

15.55h **Investigating local structures of MOFs using atomic-resolution transmission electron microscopy**

Prof. Yu Han/King Abdullah University of Science and Technology, Thuwal/KSA

16.30h **Emergence of cooperative rotor dynamics in metal–organic frameworks**

Prof. Monique van der Veen/TU Delft/NL

17.05h **MEET THE SPEAKERS**

PROGRAMME

Wednesday, 23 September**14.00 – 18.00h**

(Central European Summer Time/ UTC+02:00; Amsterdam, Berlin, Bern, Rom, Stockholm, Wien)

14.00h **Welcome****PLENARY LECTURE**14.05h **Metal Azolate Frameworks: A Unique Class**

Prof. Xiao-Ming Chen | Sun Yat-Sen University, Guangzhou/CHN

14.55h **Porous soft matter made of metal-organic polyhedra**

Prof. Shuhei Furukawa | Kyoto University/J

15.30h **Why antimatter matters: Using positrons for the dynamic study of pores**

Dr. Cara Doherty | Commonwealth Scientific and Industrial Research Organisation (CSIRO), Clayton/AUS

16.05h **Break****PLENARY LECTURE**16.35h **Porous Metal-Organic Framework Materials for Cleaner Air and the Environment**

Prof. Martin Schröder | The University of Manchester | UK

17.25h **NMR and the grand challenges in MOF research**

Prof. Jeffrey Reimer | University of California, Berkeley/USA

18.00h **MEET THE EXHIBITORS****NETWORKING: Meet friends and potential employers**

PROGRAMME

Thursday, 24 September**12.30 – 16.30h**

(Central European Summer Time/ UTC+02:00; Amsterdam, Berlin, Bern, Rom, Stockholm, Wien)

12.30h **Welcome**12.35h **Coordination space with dynamic behaviors**

Prof. Xian-He Bu | Nankai University, Tianjin/PRC

13.10h **Application of supraparticles in catalysis**

Prof. Zhiyong Tang | National Center for Nanoscience and Technology, Beijing/PRC

13.45h **Metal Organic Frameworks and related composites for the catalytic conversion of small molecules**

Prof. Christian Serre | Ecole Normale Supérieure, Paris/F

14.20h **Break****PLENARY LECTURE**14.50h **2D frameworks as platforms for solar energy conversion and storage**

Prof. Bettina Lotsch | Max Planck Institute for Solid State Research, Stuttgart/D

15.40h **Covalent Organic Frameworks: Chemistry beyond the Structure**

Prof. Rahul Banerjee | Indian Institute of Science Education and Research, Kolkata/IND

16.15h **Closure**16.30h **End of scientific programme**

EXHIBITORS

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We like to thank our exhibitors



Characterization of
particles • powders • pores



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