

Porous Metal-Organic Frameworks: Status Report Meeting 2012

Fraunhofer Institut für Elektronenstrahl- und Plasmatechnik
Winterbergstraße 28, 01277 Dresden, Germany

Program

Please note that the time between the tandems will be used for discussion!

November 28, 2012

- 08:30-08:45 Introduction and welcome: Prof. Stefan Kaskel**
- 08:45-09:15 Karolin Stein, Marcus Lange, Christian Worch:**
Coordination polymers based on *1,2,4*-triazolyl benzoates and isophthalates for application in adsorption and catalysis
- 09:25-09:45 Dmytro Denysenko, Jelena Jelic:**
Design of heterometallic derivatives of MFU-4l for oxygen activation
- 09:50-10:00 Dr. Igor A. Baburin:**
Metal-Organic Frameworks: A bridge between theory and experiments
- 10:05-10:45 Coffee Break**
- 10:45-11:15 Jann Lippke, Thomas Preuße, Christopher Seidler:**
PIZOFs: A closer look to the synthesis and their properties
- 11:25-11:55 Julia Wack, Tim Ahnfeldt, Arne Klinkebiel:**
Targeting selective host-guest interactions in functionalized MOFs – synthesis and solid state NMR studies
- 12:05-12:25 Herbert C. Hoffmann, Philipp Müller:**
Chiral Recognition in Metal-Organic Frameworks Studied by Solid-State NMR Spectroscopy Using Chiral Solvating Agents
- 12:30-14:00 Lunch Break and Steering Committee Meeting**
- 14:00-14:20 Min Tu, Zhengbang Wang:**
Multi-variant surface-mounted MOFs and their post-synthetic modification using click chemistry
- 14:25-14:45 Emanuel Eisbein, Suwendu S. Mondal:**
Proton Conductivity in MIL53Al-MOF Structures and First Synthesis of Hydrogen-Bonded-Metal-Imidazolate-Framework (HIF)

- 14:50-15:10 Lisa Diestel, Maria Schweinefuß:**
Development of ZIF membranes for separation by pervaporation
- 15:15-15:35 Hyunchul Oh, Ievgeniia Savchenko:**
MOF quantum sieve for hydrogen isotope separation
- 15:40-16:20 Coffee Break**
- 16:20-16:40 Mikulas Peksa, Dr. Sareeya Bureekaew:**
Carbondioxide Mobility in Zn-BDC-DABCO studied by NMR experiments and MD Simulations
- 16:45-17:05 Katharina Peikert, Matthias Mendt:**
Adsorption of nitric oxide in the new Metal-Organic Framework $\text{Cu}_3(\text{NH}_2\text{btc})_2$
- Synthesis and Electron Paramagnetic Resonance Spectroscopy
- 17:10-17:40 Annekathrin Ranft, Florian Hinterholzinger, Felicitas Niekietl:**
One-dimensional Metal-Organic Framework photonic crystals used as platforms for vapor sorption
- 17:50-18:10 Philipp. R. Matthes, Joachim Heck:**
Coupling of Luminescent Nanoparticles to Ln-N-MOFs and [60]Fullerene MOFs
- 18:15 Concluding remarks: Prof. Stefan Kaskel**
- 18:30 Dinner**