

DFG Priority Program 1362

April 06

Fraunhofer Institute for Electron Beam and Plasma Technology
Winterbergstraße 28, 01277 Dresden

Porous Metal-Organic Frameworks

April 06, 2011:

For each proposal **5 min.** are reserved for questions of the referees.

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|--------------------|----------|---|
| 09.00-09.10 | | Introduction: Prof. Dr. Stefan Kaskel, Dresden Introduction: Dr. Daniel Pursche, DFG Bonn |
| 09.10-09.35 | 5 | Prof. Dr. Thomas Bein, München Prof. Dr. Bettina Lotsch, München Prof. Dr. Ulrich Lüning, Kiel Prof. Dr. Jürgen Senker, Bayreuth Prof. Dr. Norbert Stock, Kiel Targeting selective host-guest interactions in functionalized MOFs - synthesis, NMR-studies and sensor design |
| 09.40-09.55 | 3 | Prof. Dr. Roland Fischer, Bochum Prof. Dr. Florian Mertens, Freiberg Prof. Dr. Christof Wöll, Karlsruhe Liquid phase epitaxy (LPE) of functionalized SURMOFs for application in Gas Chromatography |
| 10.00-10.20 | 4 | Prof. Dr. Jürgen Caro, Hannover Dr. Christian Chemlik, Leipzig Dr. Siegfried Fritzsche, Leipzig Prof. Dr. Michael Wiebcke, Hannover Knowledge-based development of supported ZIF membranes for liquid mixture separation by pervaporation |
| 10.25-10.55 | | Coffee Break |
| 10.55-11.10 | 3 | Prof. Dr. Roger Gläser, Leipzig Prof. Dr. Harald Krautscheid, Leipzig Prof. Dr. Reiner Staudt, Offenburg Heteronuclear MOFs for applications in adsorption and redox catalysis |

- 11.15-11.35** **4** **Prof. Dr. Eike Brunner, Dresden**
Prof. Dr. Frank Glorius, Münster
Prof. Dr. Stefan Kaskel, Dresden
Prof. Dr. Elias Klemm, Stuttgart
New Functional Metal-Organic Frameworks for (Enantio)selective
Catalysis and Separation
- 11.40-11.50** **2** **Prof. Dr. Karsten Reuter, Garching**
Prof. Dr. Dirk Volkmer, Augsburg
Redox-Active Metal-Organic Frameworks: Novel Entatic State
Catalysts ?
- 11.55-12.05** **2** **Prof. Dr. Christoph Janiak, Düsseldorf**
Prof. Dr. Axel Schulz, Rostock
Functionalized Porous Metal-Organic Frameworks in Selective
Catalysis
- 12.10-13.25** **Lunch Break**
- 13.25-13.40** **3** **Prof. Dr. Peter Behrens, Hannover**
Prof. Dr. Adelheid Godt, Bielefeld
Prof. Dr. Michael Wark, Bochum
Zr-based metal-organic frameworks with tailored linkers: Immobilized
liquids for sorption, extraction and ionic conduction
- 13.45-14.00** **3** **Dr. Florian Beuerle, Würzburg**
Prof. Dr. Claus Feldmann, Karlsruhe
Prof. Dr. Klaus Müller-Buschbaum, Würzburg
MOF Based Sorption Sensors by Rare Earth Luminescence
- 14.05-14.20** **3** **Dr. Andreas Mavrantopoulos, Berlin/ Bremen**
Prof. Dr. Thomas Heine, Bremen
Prof. Dr. Christof Wöll, Karlsruhe
Adsorption of harmful gases in MOFs and their spectroscopic
properties
- 14.25-14.45** **4** **Prof. Dr. Marko Bertmer, Leipzig**
Prof. Dr. Michael Fröba, Hamburg
Prof. Dr. Martin Hartmann, Erlangen
Prof. Dr. Andreas Pöpl, Leipzig
MOFs as carrier for nitric oxide delivery in biological systems -
microscopic fundamentals of adsorption and controlled release studied
by infrared and electron and nuclear spin resonance spectroscopy

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| 14.50-15.00 | 2 | Prof. Dr. Rochus Schmid, Bochum Dr. Frank Stallmach, Leipzig Fundamental host-guest interactions in porous metal organic frameworks. A combined experimental and theoretical approach |
| 15.05-15.35 | | Coffee Break |
| 15.35-15.50 | 3 | Prof. Dr. Thomas Heine, Bremen Prof. Dr. Michael Hirscher, Stuttgart Prof. Dr. Gotthard Seifert, Dresden Systematic Study of hydrogen adsorption in metal organic frameworks |
| 15.55-16.15 | 4 | Prof. Dr. Hans-Jürgen Holdt, Potsdam Dr. Stefano Leoni, Dresden Prof. Dr. Gotthard Seifert, Dresden Prof. Dr. Thomas Arne, Berlin Prediction, Synthesis and Application of porous metal imidazolate MOFs |
| 16.20-16.30 | 2 | Prof. Dr. Jens Christoffers, Oldenburg Prof. Dr. Mathias Wickleder, Oldenburg Metal organic frameworks with oligosulfonic acids |
| 16.35-16.40 | 1 | Dr. Andreas Schönhals, Berlin Molecular Mobility of Porous Metal-Organic Frameworks and Dynamics of Confined Guest Molecules revealed by a combination of dielectric, thermal and neutron spectroscopy |
| 17.00 | | Poster discussion |
| 18.00 | | Dinner |
| After Dinner | | Referees: Proposal Evaluation |