

Mittwoch, 02.03.2016

- 10:00-12:00 **Workshop "Sorption"**
- 12:45 **Eröffnung**
- 13:00 **KEYNOTE LECTURE: Electrochemical application of porous oxide thin films**
PV 1 D. Taffa¹
¹ Carl von Ossietzky Universität Oldenburg, Oldenburg/D
- 13:50 **Towards the rational design of functional carbon nanostructures via pre-organization**
KV 01 N. Fechler¹; T. Jordan²; T. Berthold²; C. Mbayá Mani²; M. Antonietti²
¹ Max Planck Institute of Colloids and Interfaces, Potsdam/D; ² Max Planck Institute of Colloids and Interfaces, Golm/D
- 14:10 **Polysulfid Adsorption on Porous Carbons- Insights into Li-S Battery Degradation**
KV 02 F. Hippauf¹; W. Nickel¹; G. Hao¹; L. Borchardt¹; S. Doerfler¹; S. Kaskel¹
¹ TU Dresden, Dresden/D
- 14:30 **On Ionothermal Nitrogen Doped Porous Carbons**
KV 03 T. Fellingner¹; J. Zhu¹; Y. Chang¹; K. Elumeeva¹; C. Zhang¹; J. Pampel¹; M. Antonietti¹
¹ Max Planck Institute of Colloids and Interfaces, Potsdam/D
- 14:50 **Distribution of sulfur in carbon-sulfur nanocomposites analyzed by small-angle x-ray scattering**
KV 04 S. Mascotto¹; A. Petzold²; A. Juhl¹; J. Scholz¹; B. Ufer¹; G. Goerigk²; M. Fröba¹; M. Ballauff²
¹ Universität Hamburg, Hamburg/D; ² Helmholtz-Zentrum Berlin für Materialien und Energie, Berlin/D
- 15:10 *Kaffeepause*
- 15:40 **Anionic silicate organic frameworks constructed from hexacoordinated silicon centers: towards organic zeolites**
KV 05 J. Roeser¹; O. Yahiaoui¹; C. Goebel¹; A. Trewin²; A. Thomas¹
¹ Technische Universität Berlin, Berlin/D; ² Lancaster University, Lancaster/UK
- 16:00 **Sequential Pore Wall Modification in a Covalent Organic Framework for Application in Lactic Acid Adsorption**
KV 06 M. Lohse¹; T. Stassin²; G. Naudin³; W. Stefan³; R. Ameloot²; D. de Vos²; D. Medina³; T. Bein³
¹ LMU Munich, München/D; ² Centre for Surface Chemistry and Catalysis, KU Leuven, Leuven/B; ³ Ludwig-Maximilians-Universität München, München/D
- 16:20 **Macroporous silica monoliths with partial mesoporosity for continuous flow microreactors**
KV 07 S. Sander¹; H. Uhlig²; C. Küster³; R. Kohns³; H. Roggendorf¹; D. Enke³
¹ Martin-Luther-Universität Halle-Wittenberg, Halle (Saale)/D; ² Institut für Nichtklassische Chemie e.V. Leipzig, Leipzig/D; ³ Universität Leipzig, Leipzig/D
- 16:40 **New concepts in the synthesis of silica based monoliths with hierarchical porosity**
KV 08 M. von der Lehr¹; K. Hormann²; L. White³; M. Bertino³; U. Tallarek²; B. Smarsly⁴
¹ Justus-Liebig Universität Gießen, Gießen/D; ² Philipps-Universität Marburg, Marburg/D; ³ Virginia Commonwealth University, Richmond/USA; ⁴ Justus-Liebig-Universität Gießen, Gießen/D

17:00 **Hard and Soft Monoliths for Separation and Catalysis: Materials, Morphologies, Mass Transport**

KV 09 U. Tallarek¹

¹ Philipps-Universität marburg, Marburg/D

17:20 *Postersession und Begrüßungsabend*

Donnerstag, 03.03.2016

09:00 **KEYNOTE LECTURE: Metal-organic framework nanoparticles for biomedical applications**

PV 2 S. Wuttke¹

¹ LMU München, München/D

09:50 **Unprecedented Sorption Behaviour of MIL-53(Al) Synthesized from Ionic Liquid like Linker Precursors**

KV 10 M. Fischer¹; J. Schwegler¹; P. Schulz¹; M. Hartmann¹

¹ FAU Erlangen-Nürnberg, Erlangen/D

10:10 **Breathing and sorption properties of Al-MIL-53-variants incorporating aliphatic linker molecules**

KV 11 H. Reinsch¹; J. Benecke²; N. Stock²; A. Lieb³; R. Siegel⁴; J. Senker⁴; R. Pillai⁵; G. Maurin⁵

¹ University of Oslo, Oslo/N; ² CAU Kiel, Kiel/D; ³ OvGU Magdeburg, Magdeburg/D; ⁴ University Bayreuth, Bayreuth/D; ⁵ University Montpellier, Montpellier/F

10:30 **P-MOFs with potentially coordinating secondary sites**

KV 12 T. Stein¹; F. Hoffmann¹; M. Fröba¹

¹ Universität Hamburg, Hamburg/D

10:50 *Kaffeepause*

11:20 **GEORGE KOKOTAILO AWARD LECTURE: Synthesis of hierarchical micro/macro porous MFI- single crystals by steam assisted crystallization of mesoporous silica spheres**

GK 01 T. Weissenberger¹

¹ Universität Erlangen-Nürnberg, /D

11:50 **Zeolite coatings by silicone binders - a thorough characterization**

KV 13 P. Bendix¹; H. Henning²; S. Henninger³

¹ Fraunhofer ISE, Freiburg/D; ² Karlsruhe Institute of Technology (KIT), Karlsruhe/D; ³ Fraunhofer Institute for Solar Energy Systems (ISE), Freiburg/D

12:10 **Tuning and Exploiting Flexibility in Soft Metal-Organic-Frameworks via Linker-Mixing and Mesoscopic Structuring**

KV 14 I. Schwedler¹; S. Henke¹; C. Rösler¹; R. Fischer¹

¹ Ruhr-Universität Bochum, Bochum/D

12:30 *Mittagspause*

14:00 **KEYNOTE LECTURE: Ordered mesoporous KIT-6 silica: discovery, properties and use**

PV 3 F. Kleitz¹

¹ University Laval/CAN

- 14:50 **Synthesis of micelle-templated mesoporous NiO layer via Carbonate route/intermediate for Oxygen Evolution Reaction**
KV 15 M. Bernicke¹; B. Eckhardt²; E. Ortel³; D. Bernsmeier²; R. Schmack⁴; R. Kraehnert²
¹ TU Berlin, Berlin/D; ² Technische Universität Berlin, Berlin/D; ³ Bundesanstalt für Materialforschung und -prüfung BAM, Berlin/D; ⁴ Technische Universität Berlin, Berlin/D
- 15:10 **Mesoporous CuO/SiO₂ Composite Materials for H₂S Gas Sensing**
KV 16 A. Paul¹; M. Tiemann¹; T. Wagner¹
¹ Universität Paderborn, Paderborn/D
- 15:30 **Nanoporous Platinum Coatings for Neural Interface Electrodes**
KV 17 K. Kreisköther¹; D. Warwas¹; N. Ehlert¹; H. Schwarz¹; P. Behrens¹; J. Schulze²; A. Warnecke²
¹ Institut für Anorganische Chemie, Leibniz Universität Hannover, Hannover/D; ² Medizinische Hochschule Hannover, Hannover/D
- 15:50 *Kaffeepause*
- 16:20 **Investigation of the deactivation pathway of H-ZSM-5 catalyst in ETH process after tailored multi-step phosphorus modification**
KV 18 M. Seifert¹
¹ TU Dresden, Professur für Anorganische Molekülchemie, Dresden/D
- 16:40 **Ru loaded zeolite H-BEA as effective catalyst for production of menthol: enhancing performance via high temperature reduction**
KV 19 J. Plößler¹; F. Dedeaga¹; M. Lucas¹; P. Claus¹
¹ TU Darmstadt, Ernst-Berl-Institut für Technische und Makromolekulare Chemie, Darmstadt/D
- 17:00 **Synergetic interaction of Ga species and Brønsted acid sites for propane dehydrogenation in Ga/HMFI catalysts**
KV 20 M. Schreiber¹; M. Baumgärtl¹; A. Jentys¹; E. Baráth¹; J. Lercher¹
¹ Technische Universität München, Department of Chemistry, Catalysis Research Center, Garching/D
- 17:20 **Influence of the of dealumination and porosity on the acid sites of natural zeolite clinoptilolite**
KV 21 R. Muhammad¹; S. Greiser²; H. Kosslick¹; F. Ibad¹; C. Jäger²; J. Rabeah³; A. Schulz¹
¹ University of Rostock / Institute of Chemistry, Rostock/D; ² Federal Institute for Materials Research and Testing (BAM), Berlin/D; ³ Leibniz-Institut für Katalyse, Rostock/D
- 17:45 **Mitgliederversammlung der ProcessNet-Fachgruppe Zeolithe (nur für Mitglieder)**
- 19:30 *Posterpreisverleihung und Konferenzdinner*

Freitag, 04.03.2016, 09:00 – 10:50

- 09:00 **KEYNOTE LECTURE: From reaction controlled uptake to uphill diffusion: new insights by microimaging**
PV 4 C. Chmelik¹
¹ University of Leipzig, Leipzig/D

- 09:50 **Evaluation of a CaCl₂/Ca-X composite for thermochemical heat storage**
KV 22 T. Nonnen¹; H. Preißler²; S. Beckert¹; R. Gläser¹
¹ Universität Leipzig, Leipzig/D; ² Institut für Nichtklassische Chemie e.V., Leipzig/D
- 10:10 **Development and Characterization of Zeolitic Honeycombs for Heat Storage**
KV 23 B. Formisano¹; T. Schapitz²; H. Kerskes²; C. Bonten¹
¹ Institut für Kunststofftechnik, Universität Stuttgart, Stuttgart/D; ² Institut für Thermodynamik und Wärmetechnik, Universität Stuttgart, Stuttgart/D
- 10:30 **Adsorbents for Seasonal Heat Storage – Economical and Energetic Assessment**
KV 24 G. Munz¹; F. Jeremias¹; B. Krämer¹; T. Wolff²; S. Henninger¹
¹ Fraunhofer Institute for Solar Energy Systems ISE, Freiburg/D; ² Dinex GmbH, Bindlach/D
- 10:50 *Kaffeepause*
- 11:20 **Negative Gas Adsorption – A New Phenomenon in Porous Solids**
KV 25 S. Krause¹; V. Bon¹; I. Senkovska¹; U. Stoeck¹; S. Kaskel¹; D. Wallacher²; D. Töbrens²; S. Zander²; R. Pillai³; G. Maurin³; F. Coudert⁴
¹ TU Dresden, Dresden/D; ² Helmholtz-Zentrum Berlin für Materialien und Energie, Berlin/D; ³ Université Montpellier, Montpellier/F; ⁴ Chimie ParisTech – CNRS, Paris/FP
- 11:40 **Novel computer simulations on diffusion in porous materials**
KV 26 V. Kotulup¹; D. Schneider¹; R. Valiullin¹
¹ Universität Leipzig/Fakultät für Physik und Geowissenschaften, Leipzig/D
- 12:00 **Excess surface work and DBdB-model for PSD calculation based on nitrogen and water vapor adsorption on silica-gel with bimodal pore structure**
KV 27 H. Uhlig¹; A. Kolesnikov¹; J. Möllmer¹; M. Rückriem²; J. Adolphs²; A. Schreiber²; N. Georgi³; D. Enke⁴; R. Gläser¹
¹ Institut für Nichtklassische Chemie e.V. Leipzig, Leipzig/D; ² POROTEC GmbH, Hofheim/D; ³ Max-Planck-Institut für Mathematik in den Naturwissenschaften Leipzig, Leipzig/D; ⁴ Institute of Chemical Technology, Universität Leipzig, Leipzig/D
- 12:20 **Systematic investigation of the pore structure and surface properties of SBA-15 by water vapour physisorption**
KV 28 S. Maaz¹; M. Rose¹; R. Palkovits¹
¹ RWTH Aachen University, Aachen/D
- 12:40 *Schlussbemerkungen*