



Sino-Deutsch Symposium GZ842 on π -Structured Polymers and Carbon Nanomaterials for Energy Applications

中德双边研讨会 **GZ842**
 π -结构聚合物及碳纳米材料：在能源中的应用

Symposium Program

Sept. 2–7, 2012

Beijing, China

Organizers: National Center for Nanoscience and Technology, China

Technische Universität Berlin, Germany

Sponsor: the Chinesisch-Deutsche Zentrum für Wissenschaftsförderung (CDZ)

Symposium Program

2 nd Sept. 2012 Arriving and registration			
3 rd Sept. 2012 Scientific presentation and discussion (25 min for every presentation, including 20 min talk and 5 min discussion)			
Time	Title	Speaker	Affiliation
Session Chair: Prof. Dr. Bao-Hang Han			
9:00–9:25	Opening remark	Qing Chang (常青) Chen Wang (王琛) Arne Thomas, Bao-Hang Han (韩宝航)	
9:25–9:50	Black magic carbon	Markus Antonietti	Max-Planck-Institut für Kolloid- und Grenzflächenforschung
9:50–10:15	Graphene-based flexible energy storage devices	Hui-Ming Cheng (成会明)	Institute of Metal Research, CAS (中国科学院金属研究所)
10:15–10:35	Picture-taking, Coffee Break		
Session Chair: Prof. Dr. Markus Antonietti			
10:35–11:00	Engineering carbon nanostructures from hydrothermal carbonization process of biomass and their applications	Shu-Hong Yu (俞书宏)	University of Science and Technology of China (中国科学技术大学)
11:00–11:25	Covalent triazine frameworks – structural considerations and potential applications	Bettina Valeska Lotsch	Max Planck Institute for Solid State Research
11:25–11:50	Hierarchical construction of self-assembled low-dimensional molecular architectures observed by using scanning tunneling microscopy	Chen Wang (王琛)	National Center for Nanoscience and Technology (国家纳米科学中心)
11:50–12:15	Recent progression of metal-organic frameworks as hydrogen storage materials	Stefan Maurer	BASF, Ludwigshafen
12:15–14:00	Lunch		

Symposium Program

3 rd Sept. 2012 Scientific presentation and discussion (25 min for every presentation, including 20 min talk and 5 min discussion)			
Time	Title	Speaker	Affiliation
Session Chair: Prof. Dr. Hui-Ming Cheng			
14:00–14:25	From p-conjugated porous polymer networks to functional carbon materials – Synthesis, Applications, Prospects	Arne Thomas	Technische Universität Berlin
14:25–14:50	Ordered mesoporous carbon for catalysis and energy application	Dangsheng Su (苏党生)	Institute of Metal Research, CAS (中国科学院金属研究所)
14:50–15:15	1 nm thick functional Carbon Nanomembranes (CNMs): New opportunities for Nanotechnology	Armin Gölzhäuser	Universität Bielefeld
15:15–15:40	Coordination polymers constructed from carboxylate ligands	Rong Cao (曹荣)	Fujian Institute of Research on the Structure of Matter, CAS (中国科学院福建物质结构研究所)
15:40–16:00	Coffee Break		
Session Chair: Prof. Dr. Armin Gölzhäuser, Bo Wang			
16:00–16:25	Covalent and Non-covalent Chemistry of Graphene - Common Concepts in Carbon Allotrope Functionalization	Frank Hauke	University of Erlangen-Nürnberg
16:25–16:50	Self-assembly of Conjugated polymers - from nanostructures to energy-related devices	Zhixiang Wei (魏志祥)	National Center for Nanoscience and Technology (国家纳米科学中心)
16:50–17:15	Dynamic study in graphene surface via PEEM/LEEM	Qiang Fu (傅强)	Dalian Institute of Chemical Physics, CAS (中国科学院大连化学物理研究所)
17:15–17:40	Porous organic polymers for catalysis and gas storage: challenges and opportunities	Sonbinh T. Nguyen	Northwestern University
17:40–18:05	Electrical characterization of nanostructured materials using scanning probe microscopy	Xiaohui Qiu (裘晓辉)	National Center for Nanoscience and Technology (国家纳米科学中心)
18:30	Dinner		

Symposium Program

4 th Sept. 2012 Scientific presentation and discussion (25 min for every presentation, including 20 min talk and 5 min discussion)			
Time	Title	Speaker	Affiliation
Session Chair: Prof. Dr. Shu-Hong Yu			
9:00–9:25	Constructing porous organic polymers as heterogeneous catalysts	Wei Wang (王为)	Lanzhou University (兰州大学)
9:25–9:50	Optical spectroscopy of carbon nanomaterials	Janina Maultzsch	Technische Universität Berlin
9:50–10:15	Carbon materials with defined morphology and pore structure	An-Hui Lu (陆安慧)	Dalian University of Technology (大连理工大学)
10:15–10:35	Coffee Break		
Session Chair: Prof. Dr. Bettina Valeska Lotsch, Wei Wang			
10:35–11:00	Nanocarbon-inorganic hybrids for sustainable energy	Dominik Eder	University of Münster – WWU
11:00–11:25	Knitting organic microporous polymer and their applications	Bien Tan (谭必恩)	Huazhong University of Science and Technology (华中科技大学)
11:25–11:50	Functional Conjugated Microporous Polymers: CO ₂ Adsorption, Photoactivity and Intermolecular Interactions	Jens Weber	Max Planck Institute of Colloids and Interfaces
11:50–12:15	Functional metal-organic frameworks for green catalytic processes	Bo Wang (王博)	Beijing Institute of Technology (北京理工大学)
12:15–14:00	Lunch		

Symposium Program

4 th Sept. 2012 Scientific presentation and discussion (25 min for every presentation, including 20 min talk and 5 min discussion)			
Time	Title	Speaker	Affiliation
Session Chair: Prof. Dr. Dangsheng Su, Niklas Hedin			
14:00–14:25	Porous organic polymers: gas sorption and seperation	Bao-Hang Han (韩宝航)	National Center for Nanoscience and Technology (国家纳米科学中心)
14:25–14:50	Evaluation of carbon supports for water splitting and Li-Ion batteries	Julian Tornow	Fritz Haber Institute of the Max Planck Society
14:50–15:15	Designing and fabrication of multifunctional optical nanomaterials for the bio-applications	Fan Zhang (张凡)	Fudan University (复旦大学)
15:15–15:40	Supramolecular self-assembly and applications of conjugated systems based on perylenediimide	Dahui Zhao (赵达慧)	Peking University (北京大学)
15:40–16:00	Coffee Break		
Session Chair: Prof. Dr. Dominik Eder, Wei Wang			
16:00–16:25	Polymeric graphitic carbon nitride for heterogeneous photocatalysis	Xinchen Wang (王心晨)	Fuzhou University (福州大学)
16:25–16:50	Graphene sheets from self-assembled monolayers: Fabrication, structure and electrical properties	Andrey Turchanin	Universität Bielefeld
16:50–17:15	Nitrogen-doped hydrothermal carbons	Li Zhao (赵丽)	National Center for Nanoscience and Technology (国家纳米科学中心)
17:15–17:40	Carbons in new battery systems: What is needed?	Philipp Adelhelm	Justus-Liebig-University Giessen
17:40–18:05	Silica-sustained ordered mesoporous carbon for catalyst support and energy storage	Aiguo Hu (胡爱国)	East China University of Science and Technology (华东理工大学)
18:30	Dinner		

Symposium Program

5 th Sept. 2012 Scientific presentation and discussion (25 min for every presentation, including 20 min talk and 5 min discussion)			
Time	Title	Speaker	Affiliation
Session Chair: Prof. Dr. Sonbinh T. Nguyen, Zhixiang Wei			
9:00–9:25	Tuned assembly of graphene materials and their uses	Jieshan Qiu (邱介山)	Dalian University of Technology (大连理工大学)
9:25–9:50	Carbon nanostructures and nickel nanocatalysts: Insights gleaned from a multi-scale approach	Jonathan E. Mueller	Universität Ulm
9:50–10:15	Functional carbon materials and their applications	Linjie Zhi (智林杰)	National Center for Nanoscience and Technology (国家纳米科学中心)
10:15–10:35	Coffee Break		
Session Chair: Prof. Dr. Janina Maultzsch, Rong Cao			
10:35–11:00	Poly(ionic liquid)s for shaped nitrogen-doped carbons	Jiayin Yuan (袁家寅)	Max-Planck-Institut für Kolloid- und Grenzflächenforschung
11:00–11:25	Carbon nitride material and its application in hydrogenation	Yong Wang (王勇)	Zhejiang University (浙江大学)
11:25–11:50	Targeted synthesis of porous aromatic framework for gas sorption	Guangshan Zhu (朱广山)	Jilin University (吉林大学)
11:50–12:15	Twin Polymerization	Andreas Seifert	TU Chemnitz
12:15–14:00	Lunch		

Symposium Program

5 th Sept. 2012 Scientific presentation and discussion (25 min for every presentation, including 20 min talk and 5 min discussion)			
Time	Title	Speaker	Affiliation
Session Chair: Prof. Dr. Jieshan Qiu			
14:00–14:25	Graphene/niobate nanocomposite visible-light photocatalysts for solar water splitting hydrogen production	Tierui Zhang (张铁锐)	Technical Institute of Physics and Chemistry, CAS (中国科学院理化技术研究所)
14:25–14 :50	Imine-linked microporous polymers and molecules with high CO ₂ -over-N ₂ selectivity	Niklas Hedin	Stockholm University
14:50–15:15	Carbon-based materials in catalysis	Yanqin Wang (王艳芹)	East China University of Science and Technology (华东理工大学)
15:15–15:40	Functionalized mesoporous carbon for CO hydrogenation	Yan Meng (孟岩)	Shanghai Advanced Research Institute, CAS (中国科学院上海高等研究院)
15:40–16:00	Coffee Break		
Session Chair: Prof. Dr. Arne Thomas			
16:00–16:25	Discrete Organic Molecules as Precursors for Solution Processible Permanent Porous Materials	Michael Mastalerz	Universität Ulm
16:25–16:50	Synthesis and photophysical properties of Pi-conjugated fluorescence probe	Hao Wang (王浩)	National Center for Nanoscience and Technology (国家纳米科学中心)
16:50–17:15	Concluding remark	Markus Antonietti Arne Thomas, Bao-Hang Han (韩宝航)	
17:15–18:15	Free talk		
18:30	Dinner		
6 th Sept. 2012 Scientific Tour			
7 th Sept. 2012 Departure			