IAP Seminar

Dong Gu

Wuhan University, China

Monday, 4th September 2023, 16:00 s.t.
TU Wien, Institut für Angewandte Physik, E134
1040 Wien, Wiedner Hauptstraße 8-10
Yellow Tower „B“, 5th floor, SEM.R. DB gelb 05 B

The seminar will be also held as a Zoom Meeting
https://tuwien.zoom.us/j/7332600640

Surface Chemistry of Mesoporous Materials

Mesoporous material is a kind of porous solid with pore sizes between 2-50 nm. Owning to their high specific surface areas, large pore volumes, uniform and tunable pore sizes and shapes, mesoporous materials can be used in heterogeneous catalysis, sensor, battery, etc. The surface functional groups play very important roles in fabrication of mesoporous materials. In this talk, several examples will be given to reveal the surface chemistry of mesoporous solids when they are used as templates or supports, and discuss the influence of the surface groups on the material structure and properties.

Dr. Dong Gu studied in Department of History at Fudan University (China) in 2001. Then, he transferred to Department of Chemistry in 2002 and received a BS degree in 2006. In 2011, he received his PhD degree in Inorganic Chemistry from Fudan University (Supervisor: Prof. Dr. Dongyuan Zhao). He worked at Prof. Dr. Ferdi Schüth's group at the Max-Planck-Institute für Kohlenforschung in Mülheim (Germany) as a Post-Doc (Max-Plank fellow and Alexander von Humboldt fellow) between 2011 and 2017. After that, he moved to Wuhan University and built his own research group as a full professor. His research interest is design and preparation of multi-functional mesoporous materials for catalysis and energy storage and conversion. Dr. Gu has authored and co-authored more than 80 peer-reviewed papers in international journals i.e. *Chem. Soc. Rev.*, *J. Am. Chem. Soc.*, *Angew. Chem. Int. Ed.*, *Adv. Mater.*, *Nat. Commun.*, *Adv. Energy Mater.*, etc. These papers have been cited for more than 10,000 times and Dr. Gu has a H-index of 40.

All interested colleagues are welcome to this seminar lecture
(45 min. presentation followed by discussion).

Friedrich Aumayr
(LVA-Leiter)

Markus Valtiner
(Seminar Chair)