

## UniSysCat Colloquium

Prof. Dr. Banglin Chen

University of Texas at San Antonio

Start Time: Wednesday, June 19, 2019 05:15 pm

End Time: Wednesday, June 19, 2019 06:45 pm

Chemistry Building, C264

Technische Universität Berlin, Straße des 17. Juni 115, 10623 Berlin

### Our Journey of Exploring Multifunctional Metal-Organic Framework Materials through Global Collaboration

Prof. Dr. Banglin Chen

University of Texas at San Antonio

Department of Chemistry

Discoveries of novel multifunctional materials have played very important roles to the development of science and technologies and thus to benefit our daily life. Among the diverse materials, metal-organic framework (MOF) materials are rapidly emerging as a unique type of porous and organic/inorganic hybrid materials which can be simply self-assembled from their corresponding inorganic metal ions/clusters with organic linkers and can be straightforwardly characterized by various analytical methods. They exhibit great potentials for a broad range of applications in gas storage, gas separations, enantioselective separations, photonics, chemical sensing, heterogeneous catalysis, proton conductivity, membrane separations and drug delivery. In this talk, I will highlight our efforts and progress on exploring multifunctional metal-organic frameworks through global collaboration.

Prof. Dr. Arne Thomas

Organizer