

UniSysCat Colloquium

Prof. Dr. Laura Gagliardi

Technische Universität Berlin

Start Time: Wednesday, January 16, 2019 05:15 pm

End Time: Wednesday, January 16, 2019 06:45 pm

Chemistry Building , C264

Technische Universität Berlin, Straße des 17. Juni 135, 10623 Berlin

Inorganometallic Catalyst Design

Metal-organic frameworks (MOFs) are attracting the attention of many scientists because of their high selectivity in gas separations, catalytic activity, and magnetic properties. In our Energy Frontier Research Center called Inorganometallic Catalyst Design Center (ICDC) we combine theory and experiment to understand the activity of transition metal catalysts supported on Zr₆ nodes in MOFs for reactions related to natural gas conversion, like catalytic oligomerization of abundant C₁, C₂, and C₃ hydrocarbons to longer congeners or selective oxidation to alcohols or other fuel molecules, while avoiding overoxidation to water and carbon dioxide. I will briefly describe ICDC and report our latest results achieved through the synergy between experiment and theory.

Prof. Dr. Sauer (HU Berlin)

Organizer