

EINLADUNG

Im Rahmen der gemeinsamen Kolloquien der Fakultät Chemie und Chemische Biologie der Technischen Universität Dortmund hält

Herr Prof. Dr. Klaus Müller-Buschbaum

Institut für Anorganische Chemie, Universität Würzburg

einen Vortrag mit dem Thema

MOFs and Coordination Polymers for Luminescence, Multifunctionality and Sensing

MOFs (Metal-organic frameworks) and coordination polymers show interesting optical properties, especially luminescence together with metals of the lanthanide series. Due to their intrinsic porosity, luminescent MOFs can function as fast sensors for analytes such as gases, volatile molecules (VOCs) and ions. In this sensing process, the analyte provokes a significant change in the luminescence, which can be monitored “on-the-fly” or by a spectrometer. In this presentation, MOF sensing is expanded by novel composite materials. Both, MOF thin films on functionalized substrates and core/shell structures will be presented from the nanometer to the micrometer scale showing combinatory properties of the components. Transparent nanoscaled films are examples of smart optical materials, as they can be switched rapidly between transparent and non-transparent state depending on the energy of illuminating light.

Zeit: Dienstag, 29.11.2016, 17.15 Uhr
Ort: Campus Nord, Chemiegebäude, HS 1

Für die Dozenten der Chemie

