FAKULTÄT FÜR CHEMIE

universität wien

Einladung zum Vortrag von

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„Advanced ordered mesoporous materials: from tailored design and characterization to cutting-edge applications"

The ongoing development of personal healthcare, nanomedicine and theranostic devices is, more than ever, fueled by the emergence of smarter technologies, in direct relation with progress made in the material science. Over the last decade, impressive advances were made in the design and synthesis of novel porous materials with tailorable structural, morphological and surface properties, (silica, oxides, polymers, proteins, natural materials …) which have shown outstanding capabilities and could therefore have a real potential to become the next-generation biomaterials. In order to support and optimize these design efforts, it is imperative to accurately characterize the physico-chemical properties of these materials. Rationalization of materials texture, tortuosity, pore network, pore size and volume, surface area and density is of tremendous importance to understand their overall behavior. In this presentation, we will review key aspects and ongoing challenges regarding the state-of-the-art physical characterization of some bio- devices/materials by applying a combination of experimental techniques such as gas adsorption (coupled with advanced theoretical methods for data analysis), mercury porosimetry and capillary flow porometry.

Freitag, 24. März 2017, 15:00 Uhr
Seminarraum 2
Währinger Straße 42, 1090 Wien

Wolfgang Kautek – Institut für Physikalische Chemie
Freddy Kleitz – Institut für Anorganische Chemie – funktionelle Materialien

Bernhard Keppler Dekan	Lothar Brecker Vizedekan	Veronika Somoza Vizedekanin