



Einladung zum Vortrag von

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**„Mesostructured Materials for Solar Energy  
Conversion”**

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Mesoporous oxides are a fascinating class of porous materials. Since the discovery of ordered mesoporous SiO<sub>2</sub> via soft-templating already two decades ago, a large variety of mesoporous oxides either by soft- or hard-templating has been reported for a vast number of different applications including catalysis and sensors. The presentation will present strategies including mesostructuring of complex semiconductor mixed oxide materials on the nanoscale to improve photocatalytic activity for H<sub>2</sub> generation. Mesoporous and fibroid photocatalysts exhibit shortened charge carrier diffusion lengths and enhanced surface area for improved photocatalytic performance, while the design of composite photocatalysts and photoelectrodes improves charge carrier separation for enhanced activity.

Freitag, 09. Dezember 2016, 15:00 Uhr

Hörsaal 4

Währinger Straße 42, 1090 Wien

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Bernhard Keppler  
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