



Seminarankündigung

Dienstag, 30. Oktober 2018

11:00 Uhr

WSI, Seminarraum S 101

“Understanding chemical transformations at functional interfaces for solar fuels generation”

For the fabrication of an integrated solar-to-chemical system, different components should be interfaced together in an orchestrated manner. Photoelectrodes need to absorb in the visible range, with a valence and a conduction band suited for the target reaction. Moreover, the presence of catalysts is required to manage the intrinsic energetic hurdle and address selectivity issues. Herein, we address the study of the major challenges, namely performance, selectivity, and interfaces to enable fabrication of integrated solar-to-chemical systems. Novel scientific directions for the synthesis of functional interfaces and the development of new tools for their characterization will be addressed. A new multimodal approach for the synthesis and characterization of functional complex interfaces will be proposed.

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