

UniCat Colloquium

PROF. XILE HU

Ecole Polytechnique Fédérale de Lausanne (EPFL)

Inorganic water splitting catalysts: from soft chemical synthesis to integrated photoelectrochemical devices

Sunlight-driven water splitting to make hydrogen is a promising method to store solar energy. Water splitting requires catalysts for both the hydrogen evolution reaction (HER) and the oxygen evolution reaction (OER). In this talk, I will present our developments of several new classes of water splitting catalysts such as amorphous molybdenum sulfides for HER and layered double hydroxides and their exfoliated nanosheets for OER. These catalysts have been integrated into photoelectrochemical devices yielding benchmark performance on Cu₂O photocathode, amorphous Si photocathode, Fe₂O₃ photoanode, and an unassisted tandem water splitting device.

Wednesday, April 29, 2015 at 5:15 PM

TU Berlin, Institute of Chemistry
Straße des 17. Juni 115, 10623 Berlin

Building C, Lecture Hall **C 264**

Prof. Driess (TUB)

Organizer

Coffee and cake will be served 30 minutes before the lecture. Guests are cordially invited to attend!
Prof. Dr. Matthias Driess - Chair of the Cluster of Excellence UniCat - www.unicat.tu-berlin.de



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