

UniCat Colloquium

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Applications of cross-coupling reactions in the design of model systems for studies of electron transfer, mixed-valency and Moore

Cross-coupling reactions are now widely recognised as essential tools in the modern synthetic chemist's toolbox. The developments that have taken place in terms of both catalyst and cross-coupling partners over the past decades now bring us to a point where these reaction strategies can be implemented routinely for the construction of complex molecular systems. This talk will present applications of various homo- and cross-coupling reactions in the synthesis of a range of compounds with a diverse spectrum of optoelectronic properties. Examples will include charge transporting triarylaminines (via Ullmann and Buchwald-Hartwig style reactions), 1,3-diynes (via Sonogashira reactions within a metal coordination sphere and facile homo-coupling protocols), bis(ferrocene) and other model systems through which to study the details of intramolecular charge transfer process, and components for molecular electronics. Throughout the talk the emphasis will be placed on the synthetic strategies and molecular design concepts, and illustrative examples of the resulting optical or electronic properties of interest will be presented.

Mittwoch, November 18, 2015 at 5:15

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

Building C, Lecture Hall **C 264**

Prof. Kaupp (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

