

## **UniCat Colloquium**

## PROF. DR. AIWEN LEI

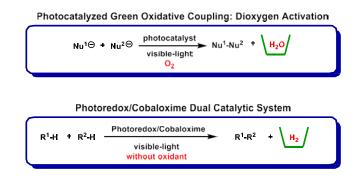
College of Chemistry and Molecular Sciences, Wuhan University, China

## Green Oxidative Cross-Coupling using Visible-light: From O<sub>2</sub> to Oxidant-free

Comparing with classic transition-metal catalyzed cross-coupling reactions, the oxidative cross- coupling reactions between two nucleophiles provides a more direct and powerful tool for the development of green and efficient bond-forming methodologies, which can avoid the separate steps of pre-functionalization and de-functionalization.

With respect to the development of new sustainable and green synthetic methods, using mild oxidant in the oxidative cross-coupling reactions has become an important goal in the field of green synthetic chemistry.

Using visible-light photocatalysis, the lecture will show that we have successfully developed several green oxidative cross-coupling reactions of hydrocarbons with  $O_2$  as the terminal oxidant or through the liberation of  $H_2$ .



Wednesday, February 08, 2017 at 5:15 PM TU Berlin. Institute of Chemistry

Straße des 17. Juni 115, 10623 Berlin

Building C, Lecture Hall C 264

Prof. Dr. Oestreich (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











