

Three Top Publications Released by the Driess Research Group

Start Time: Sunday, September 13, 2020

End Time:



In *Nature Chemistry*, the group of UniSysCat researcher Mathias Driess employs the general strategy of a cooperative effect of two low-valent motifs in a confined distance to each other, which is a research focus in Area A, by utilizing bidentate ligand based on silicon (II) donors–anions. The article was highlighted in the news & views section of this journal by David Scheschkewitz Saarland University, Saarbrücken, Germany.

[Click here](#) for the link to the *Nature Chemistry* article.

[Click here](#) to view the news article.

The *JACS perspective article* from the Driess group puts the electrocatalytic P=O reduction without using a sacrificial reagent, which is studied in research area D, in a wider context. In this treatise they summarize the emergence of electrochemical strategies developed for the reduction of selected examples of E-O/E=O compounds with E = silicon, phosphorus, and sulfur in the past few decades and highlight opportunities and future challenges.

[Click here](#) for the *JACS* article.

Further, their first work on an unprecedented one-pot fully electrochemically driven Wittig olefination reaction system without employing a chemical reductant or sacrificial electrode material to regenerate triphenylphosphine (TPP) from triphenylphosphine oxide (TPPO) and base-free in situ formation of Wittig ylides, reported in *Chemistry, a European Journal*, is central for research area D.

[Click here](#) for the research article.