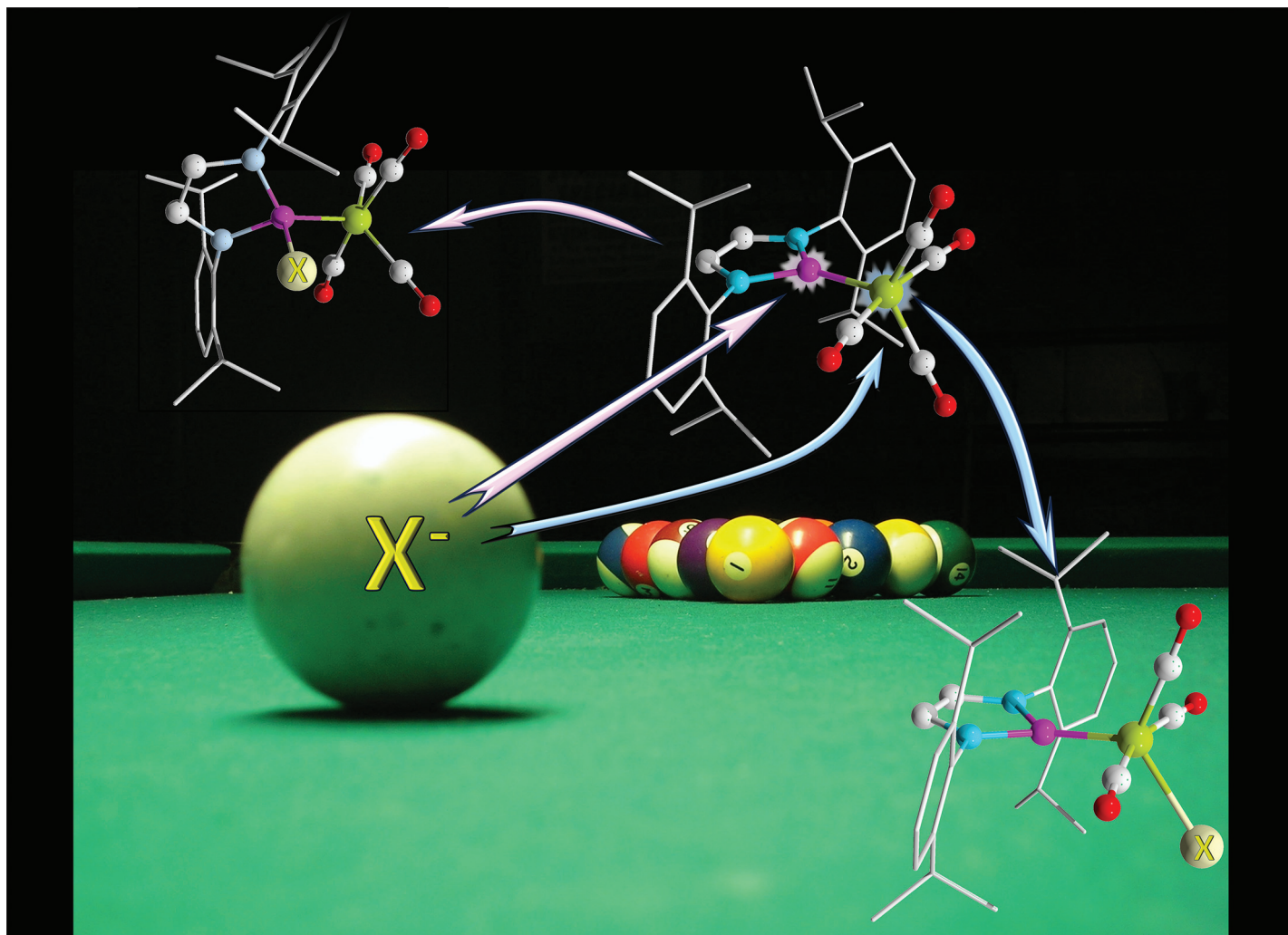


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**Showcasing research from Professor Dietrich Gudat's laboratory, Institute of Inorganic Chemistry, University of Stuttgart, Stuttgart, Germany.**

Diverse reactivity of a cationic N-heterocyclic phosphonium complex towards anionic substrates – substitution vs. reduction

Anionic reactants may hit a cationic N-heterocyclic phosphonium complex of iron at different sites to induce conversion into different types of products. Experimental studies have been performed to establish the conditions for addressing the individual reaction channels, and mechanistic aspects are further discussed with the help of DFT calculations.

Acknowledgement: The background is a detail of a photograph by William Clifford available under a CC-BY 2.0 license under <https://www.flickr.com/photos/williac/222560820>

**As featured in:**



See Dietrich Gudat *et al.*, *Dalton Trans.*, 2025, **54**, 1806.