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"Tailor-Made Bismuth Compounds for Synthesis and Catalysis"

Tailor-Made Bismuth Compounds for Synthesis and Catalysis Research in the Lichtenberg group is centered around well-defined, molecular bismuth compounds. Using neutral and cationic complexes of this type, we aim to address polar and radical reaction pathways for selective bond forming events in synthesis and catalysis. This has revealed unusual reactivity patterns in redox chemistry, E–E bond formations (E = C, N, P, As), CH activation, and small molecule activation.