Selective Synthesis of Halogenated Organic Compounds Mediated by Homogeneous and Heterogeneous Catalysts

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Our latest investigations on the development of new, efficient, robust and practical methods for synthesizing halogenated building blocks using transition metal- or organocatalysts will be presented. The former type of catalysts consists of simple and accessible iridium(III) complexes, and also of heterogeneous catalysts based on metal-nanoparticles immobilized on metal-organic frameworks (MOFs). The scope and limitations, synthetic applications, scalability, and mechanistic aspects of these catalytic processes will be discussed.

Selected Group References