Special Issue

Recent Developments on Catalysis by Metalloporphyrins and Analogues

Message from the Guest Editors

The synthetic versatility and the potential applications of metalloporphyrins in several fields, including catalysis, have catapulted the interest of researchers in these complexes, all over the world, particularly trying to mimic biological systems, such as cytochrome P450 enzymes. In the last few decades, significant developments on catalytic processes based on synthetic metalloporphyrins have been registered, mostly devoted to, although not exclusively to, oxidative transformations. In addition to hydroxylation, epoxidation or sulfoxidation reactions, other metalloporphyrins' catalyzed transformations are playing an important role, such as reduction, halogenations or carbene transfer reactions, including significant developments on asymmetric catalysis. Meanwhile, several metalloporphyrin analogues are also playing a major role in catalysis. We would like to invite authors to submit regular research papers, communications, and short reviews to this Special Issue, which aims to cover the most recent advances in the field of catalysis mediated by metalloporphyrins and analogues in either homogeneous and heterogeneous conditions, including asymmetric catalytic systems.

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