

Special Issue

Organic Transformations Promoted by 3d Metal Complexes: Synthetic Applications and Mechanisms

Message from the Guest Editor

Metalloenzymes use bioavailable nontoxic metals (Fe, Cu, Mn, Zn, etc.) and green oxidants, such as O₂ or H₂O₂, to promote the biosynthesis of organic molecules under very mild conditions with exquisite product selectivity. On the other hand, most of the organic synthetic protocols found in industrial processes rely on the utilization of expensive 4*d* and 5*d* metals such as Pd or Pt, which usually also require harsh reaction conditions. In this special issue, we will compile some of the most significant and recent research contributions that report the use of 3*d* metal complexes to promote the functionalization of organic molecules, including work inspired by the reactivity of metalloenzymes.

Guest Editor

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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