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

Dr. Isaac Garcia-Bosch
Department of Chemistry, Southern Methodist University, Dallas, TX, USA

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Molecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

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As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt
Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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