

Special Issue

Recent Advances in the Chemistry of Organoiron Compounds

Message from the Guest Editor

Iron is a unique metal element in terms of its availability, cost effectiveness, and low toxicity, and therefore, the advancement in the applications of iron compounds in various fields is highly desirable. In this regard, the serendipitous discovery of ferrocene represented a turning point for modern organometallic chemistry; therefore, a large variety of iron-based organometallic structures has been synthesized and investigated. Thus, organoiron molecular compounds have been intensively studied both in terms of basic research and for their potential uses, including as catalysts for sustainable processes, in view of replacing precious and more toxic metals, the mimetics of natural enzymes, and pharmaceuticals. This Special Issue will cover all aspects of the synthesis, structural elucidation, theoretical and mechanistic studies, reactivity, properties, and applications of organoiron complexes.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2021)



Molecules

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Impact Factor 4.6
CiteScore 8.6
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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th 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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