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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Message from the Editor-in-Chief

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.

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