

Special Issue

Organometallic Compounds: Synthesis and Catalysis

Message from the Guest Editor

The editorial board of *Molecules* (IF: 4.6, ISSN 1420-3049) invites you to submit an article or review to a Special Issue entitled "Organometallic Compounds: Synthesis and Catalysis". This Special Issue will highlight research and reviews in organometallic chemistry, with a dedicated focus on the synthesis of novel complexes and their applications in catalysis. Organometallic compounds, characterized by their metal-carbon bonds, serve as indispensable tools and catalysts driving innovation across organic synthesis, materials science, energy conversion, and pharmaceutical manufacturing. Contributions within this issue will explore advanced synthetic strategies for the design of structurally diverse and functionally precise organometallic architectures, including tailored ligands, unconventional coordination geometries, and emerging main-group or multimetallic systems. By bridging fundamental molecular design with practical catalytic utility, this issue will provide a comprehensive overview of current frontiers and underscore the critical importance of organometallic chemistry in addressing contemporary synthetic challenges and advancing technological innovation.

Guest Editor

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About the Journal

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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