Special Issue

Synthesis, Properties, and Applications of Chiral Molecules

Message from the Guest Editor

Chiral molecules play a foundational role in contemporary chemistry due to their prevalence in biological systems and their enantioselective interactions in chemical and biochemical processes. The synthesis, characterization, and application of these molecules continue to be areas of intense scientific interest, particularly in the development of pharmaceuticals, agrochemicals, and functional materials. Recent advances in asymmetric catalysis, stereoselective synthesis, and computational modeling have enabled the precise design of chiral compounds with tailored properties. These innovations not only enhance synthetic efficiency, but also broaden the potential applications of chiral molecules in medicinal chemistry, materials science, and sustainable technologies. Topics of interest include, but are not limited to, new methods for asymmetric synthesis, the characterization of chiral compounds, advances in chiral catalysts, and applications of chirality in drug discovery, molecular recognition, and catalysis. We look forward to your contributions.

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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