

Special Issue

Chirality: The Molecular Key to Structure, Function and Future Materials

Message from the Guest Editor

Handedness is not a cosmetic molecular detail; it is a hidden lever that controls how matter self-assembles, recognizes, catalyzes, transports, heals and responds to external stimuli. From the twist of a drug molecule that determines receptor affinity and the helical scaffold of a biodegradable gel that releases on demand to the chiral surface that spins electrons or photons, the “left” or “right” choice made at the sub-nanometer scale propagates into the macroscopic properties that we urgently need for next-generation therapeutics, sustainable polymers, quantum devices and adaptive materials. This Special Issue of *Molecules* invites the submission of experimental and computational contributions that use chirality, whether intrinsic, induced or engineered, as the decisive design element to create, understand or optimize molecular systems. We welcome studies that achieve the following:

Guest Editor

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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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