Special Issue

Recent Advances in Chiroptical Spectroscopy

Message from the Guest Editor

Chirality is expressed throughout nature, whether microscopic or macroscopic, and animate or inanimate. Examples include molecules, crystals and complex living organisms. From the molecular standpoint, life is totally homochiral; that is, all living organisms on Earth use molecules of a unique invariant handedness: only D-(deoxy) ribose in nucleic acids and only L-amino acids in proteins. Thus, chirality is a key issue in understanding the origin of life on Earth, as well as in agricultural, pharmaceutical and food industries as their biological effects often depend on the chirality of compounds. The present Special Issue, “Recent Advances in Chiroptical Spectroscopy”, aims to provide comprehensive coverage of the most important and up-to-date methods dealing with polarized light, including their basic principles, instrumentation, and theoretical simulation for application to organic molecules, inorganic molecules, and biomolecules.

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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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