Special Issue

Advances in Enantioselective Syntheses and Chiral Separations

Message from the Guest Editor

For many years, the major factor stimulating the search for optically active compounds was the interest in static and dynamic stereochemistry of organic derivatives with various elements of stereogenity, commonly used as models in mechanistic studies. The search for new enantioselective syntheses and enantioselective separation procedures has been stimulated by the rapid development of medicinal chemistry and biochemistry and, in particular, the needs of the pharmaceutical industry, which is now obliged to study very deeply the biological activity of enantiomeric forms of all chiral drugs before their introduction to the market. This Special Issue will provide a contemporary overview of progress on these two topics. From fundamental aspects to applications, any works related to the generation of new stereogenic units based on chemical and chemoenzymatic methodology are thus welcome. All contributions dealing with the analytical aspects of chiral separation are also warmly welcome.

Guest Editor

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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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