Special Issue

Synthesis and Molecular Recognition of Macrocyclic Compounds, 2nd Edition

Message from the Guest Editor

The molecular recognition of biomolecules is a ubiquitous and vital phenomenon in nature. This phenomenon can also be engineered into synthetic molecules such as macrocycles. Studies on molecular recognition using macrocycles such as crown ethers, cryptands, calixarenes, cyclodextrin derivatives, spherands, cavitands, cyclophanes, cucurbiturils, catenanes, rotaxanes, and many others are not only important because they help us to better understand its working in nature, but also because these studies can lead to the development of effective sensor and selector molecules and catalysts with wide applications. This Special Issue focuses on the synthesis and molecular recognition of macrocycles and their applications as sensors, selectors, and catalysts.

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 29th 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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