Special Issue

Molecular Encapsulation

Message from the Guest Editors

Supramolecular chemistry uses the non-covalent-type intermolecular forces. The selective complexation of host and guest molecules results in versatile and especially useful structures. The field of molecular encapsulation provides a challenging platform for enzyme-like molecular recognition, catalytic and photosensitizing applications, molecular recognition and sensing, gas storage, drug delivery, toxic waste removal, water purification, molecular separation, solar cells, energy conversion, and biomedical engineering. Host–guest supramolecular complexation can provide protection against photoinitiated, hydrolytic, and oxidative degradations of the active agents. In this Special Issue entitled "Molecular Encapsulation", original research papers, communications, or review articles on any of these aspects are welcome.

Keywords
- supramolecular chemistry
- host–guest interaction
- macrocyclic oligomers
- nanostructures

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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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