

Special Issue

Design and Application of Functional Supramolecular Materials

Message from the Guest Editor

Supramolecular materials, constructed through dynamic noncovalent interactions such as hydrogen bonding, metal coordination, and π - π stacking, exhibit unique adaptive and stimuli-responsive properties. These materials hold tremendous potential for application in a diverse range of fields, including bio-sensing, targeted drug delivery, green catalysis, and next-generation smart materials. This Special Issue highlights the cutting-edge advances in functional supramolecular systems, with a focus on rational design strategies, innovative assembly approaches, and structure–function relationships. By exploring novel topological architectures—such as macrocycles, cages, and supramolecular polymers—we aim to uncover the fundamental principles governing their performance. Ultimately, this collection of research seeks to deepen our understanding of how supramolecular chemistry drives the development of advanced functional materials with properties tailored for real-world applications.

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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