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Design, Synthesis and Application of Supramolecular Functional Materials

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Message from the Guest Editors

Supramolecular chemistry has proven to be a powerful tool for the design and development of highly complex architectures for a wide range of applications in biology, medicine and materials science. Indeed, non-covalent interactions, such as hydrogen bonding, CH- π , π - π , halogen bonding, and electrostatic interactions, provide a versatile toolbox to elaborate supramolecular materials exhibiting a highly dynamic, adaptive and reversible stimuli-responsive behaviour. These unique properties permit new functions that are not available for their conventional covalent counterparts to be achieved. This Special Issue aims to highlight the very recent progress in this field focusing on the design and synthesis of organic and inorganic supramolecular materials, their hierarchical assembly at higher scale and how this determines their bulk properties and thus, their usage. Contributions discussing all aspects broadly indicated by the keywords are strongly encouraged.



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Special Issue



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Message from the Editor-in-Chief

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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