

Special Issue

Synthesis and Characterization of Hybrid Biomaterials for Life Sciences

Message from the Guest Editors

This Special Issue aims to highlight recent advances in the design, synthesis, and characterization of hybrid biomaterials, composed of organic polymers (e.g., chitosan, alginate, polyethylene glycol) and inorganic components (e.g., silica, hydroxyapatite, bioactive glass), with potential applications in diverse areas of the life sciences, including biomedical engineering, natural and active packaging, drug delivery, biosensing, and tissue engineering. We particularly welcome contributions focused on hybrid materials, including, but not limited to, the following:

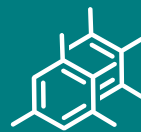
- Advanced synthesis approaches (e.g., sol-gel, self-assembly, in situ methods);
- Structural, thermal, spectroscopic, and morphological characterization;
- Evaluation of bioactivity, antimicrobial, and antioxidant properties;
- Design of controlled-release systems for therapeutic agents;
- Development of functional packaging with natural active compounds;
- Assessment of stability and performance in biological environments;
- Applications in tissue engineering, drug delivery, biosensing, and related life science fields.

Guest Editors

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Dr. Antonio D'Angelo
Dr. Marika Fiorentino

Deadline for manuscript submissions

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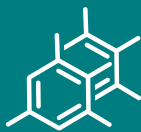


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Message from the Editor-in-Chief

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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