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## Synthesis, Characterization and Biological, Medical and Environmental Applications of Biological Products and Bio-Based Nanomaterials or Composites

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Deadline for manuscript  
submissions:

**closed (29 February 2024)**

### Message from the Guest Editor

This Issue welcomes recent advancements in biosynthesis, characterization of bio-based composites and nanomaterials and their biological, medical and environmental applications. In this Special Issue, we invite researchers to submit their original research and review articles. General topics include but are not confined to the below:

- The production, characterization, and use of bio-based nanoparticles.
- Applications of bio-based nanoparticles in medicine (drug and vaccine delivery, anticancer and antibacterial agent, and wound healing).
- The use of bio-based nanoparticles in bioremediation and adsorption.
- Energy and electrical uses of nanoparticles derived from biomaterials.
- Bio-based nanoparticles used in applications related to food safety.
- Bio-based nanomaterials for applications transforming food waste.
- Enzymatic nano-bioprocessing applications using bio-based nanomaterials.
- Processing of green composites.
- Characterization and structure-property connections of green composites.



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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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