Special Issue

Recent Advances in Bio-Based Nanomaterials for Environmental Remediation, Waste Valorization and Circular Economy

Message from the Guest Editors

This Special Issue is focused on the most recent advances in the development of bio-based nanomaterials applicable for the elimination of contaminants from the environment (water, soil and air) and resource recovery from wastes towards a circular economy. The following topics are welcome in this Special Issue:

- Rational design and synthesis of biopolymer-based nanomaterials, including nanocomposites, hybrid materials and surface-modified nanomaterials, for applications in the adsorption and/or degradation of pollutants;
- Assessment of the environmental impact and ecotoxicity of the bio-based nanomaterials;
- Resource recovery from wastes using bio-based nanomaterials;
- Mechanistic and computational studies regarding adsorption and reactions at the interfaces with biobased nanomaterials.

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About the Journal

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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