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

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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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Message from the Editor-in-Chief

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