

Special Issue

Advances in Sustainable Biomaterials and Their Environmental Applications

Message from the Guest Editor

This Special Issue focuses on recent advances in sustainable biomaterials and their environmental applications, with particular emphasis on pollutant removal from water and wastewater systems. The scope covers the design, synthesis, and characterization of bio-based materials derived from renewable resources such as cellulose, chitosan, lignin, alginate, and plant or microbial biopolymers. Priority will be given to studies that integrate green chemistry principles, including solvent-free processes, low-energy synthesis, and biodegradable or regenerable material design. Targeted environmental applications include the adsorption, photocatalytic degradation, membrane filtration, and chemical sensing of heavy metals, organic dyes and emerging contaminants. The purpose of this Special Issue is to highlight cutting-edge biomaterial innovations that offer efficient, cost-effective, and ecologically safe alternatives to conventional petroleum-based treatment technologies. This Special Issue will fill these gaps by presenting integrated, solution-oriented research that advances sustainable biomaterials from laboratory discovery to real-world environmental remediation applications.

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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