Special Issue

Agricultural Waste Derived Nanomaterials: Synthesis, Characterization and Applications

Message from the Guest Editors

The scope of this Special Issue includes recent research innovations and developments in the synthesis and characterization of AWNs along with their applications in environmental remediation, agriculture, and food and biomedical fields. This Special Issue is looking for original research articles and reviews that focus on but are not limited to the following topics:

- Agrowaste-based novel nanostructures (AWNs)—synthesis and characterization;
- Lignin, cellulose, hemicellulose, lignocellulose, and zeolite-based AWNs;
- AWNs—carbon nanomaterials: magnetic activated carbon, carbon nanotubes, graphene/graphene oxide, fullerenes, quantum dots, etc.;
- AWNs—metal or metal-oxide nanoparticles: gold, silver, silica, zinc, nickel, palladium, iron oxide, titanium dioxide, etc.;
- AWNs applications in environmental remediation (soil and wastewater treatment);
- AWNs applications in food and agriculture;
- AWNs applications in antioxidant and antimicrobial agents/carriers;
- AWNs applications in biomedical applications;
- AWNs applications in diagnostics and therapeutics.

Guest Editors

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Deadline for manuscript submissions

closed (25 February 2025)

Agronomy

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Impact Factor 3.4
CiteScore 6.7

mdpi.com/si/112744

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