

Special Issue

Synthesis, Characterization and Functional Properties of Green Nanocomposites

Message from the Guest Editors

This Special Issue seeks contributions that explore the fabrication of eco-friendly polymeric matrices, the functionalization of nanofillers, structure–property correlations, advanced characterization techniques, and the performance evaluation of these materials under various environmental conditions. Topics include but are not limited to the following:

- The synthesis of green nanocomposites using renewable or biodegradable polymers;
- Functionalization and dispersion techniques for bio-based nanofillers;
- Structure–property relationships in green nanocomposites;
- Advanced characterization methods for green nanocomposites;
- Mechanical, thermal, and barrier property evaluation;
- Applications in packaging, biomedicine, energy, environmental remediation, and coatings;
- Sustainable processing routes and scalability;
- Life cycle analysis and environmental impact assessments;
- Biodegradation behavior and eco-toxicological studies;
- The integration of green nanocomposites in industrial applications.

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