

Special Issue

Advanced Materials for Sustainable and Green Sample Preparation

Message from the Guest Editors

The focus of this Special Issue is on the design, synthesis, and application of advanced materials that enhance the efficiency, selectivity, and environmental compatibility of sample preparation processes. We are particularly interested in studies that explore novel materials and methods that minimize the use of hazardous chemicals, reduce energy consumption, and promote the sustainable use of resources. Topics of interest for this Special Issue include, but are not limited to, the following:

- Development of green solvents and reagents for sample preparation.
- Application of nanomaterials in sustainable extraction techniques.
- Biodegradable and renewable materials for sample processing.
- Innovations in sorbent- and solvent-based microextraction techniques.
- Advances in membrane technology for sample preparation.
- Use of ionic liquids and deep eutectic solvents (DESS) in analytical chemistry.
- Photocatalytic and bio-inspired materials for environmental sample analysis.
- Automation and miniaturization of green sample preparation methods.
- Sustainable protocols for the isolation and analysis of bioactive compounds.

Guest Editors

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Deadline for manuscript submissions

closed (10 December 2024)



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