

Special Issue

Nanotechnology and Nanomaterials for Environmental and Energy Sustainability

Message from the Guest Editors

Nanotechnology is at the forefront of sustainable innovation, providing solutions for environmental remediation and clean energy. This Special Issue showcases research on nanomaterials for a greener future. It focuses on nanotechnology's dual role:

- In environmental remediation: Applications in water/air purification, soil remediation, heavy metal removal, and carbon capture.
- In renewable energy: Integration of nanomaterials in solar cells, hydrogen production, supercapacitors, and next-gen batteries for cleaner energy shifts.

The goal is to link environmental and energy sustainability with advanced research. We welcome original articles, reviews, and case studies on:

- Environmental Remediation Nanotech: Nanomaterial-based purification, heavy metal removal, green biodegradable nanomaterials for pollution control, and photocatalytic degradation.
- Renewable Energy Nanotech: Nanomaterials for solar/fuel cells and hydrogen, advanced nanostructures for batteries/supercapacitors, carbon capture with nanotech, and nanofluids for energy conservation.
- Environmental safety of nanomaterials, and life-cycle assessment of nanotech's impact on sustainability goals.

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About the Journal

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. *Sustainability* publishes original research articles, review 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.

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