

Special Issue

Recent Development of Nanomaterials for Wastewater Treatment and Sustainable Environmental Protection

Message from the Guest Editors

An in-depth study of nano-dispersed materials and the composite compounds based on them has shown promise in their use in the latest environmental technologies. Modern challenges concern water purification not only from traditional pollutants, but also heavy metals, suspended particles, nitrates and phosphates. The use of nanomaterials opens up opportunities for the neutralization of particularly dangerous organic pollutants. The potential range of issues addressed in the collection includes the following:

- Advanced nanotechnologies and properties of nanomaterials;
- Adsorbents, nanocomposites and production technologies, and their properties;
- Nanoplastics for methods of neutralization;
- Membrane cleaning methods using nanomaterials;
- Electrocatalysts and their use in green energy;
- Nanotechnology and light pollution;
- Purification of gas emissions;
- Recycling of solid industrial waste to obtain nanomaterials.

Guest Editors

Dr. Liliya Frolova

Department of Technology of Inorganic Substances and Ecology,
Ukrainian State University of Chemical Technology, Dnipro, Ukraine

Dr. Butyrina Tetiana

Department of Technology of Inorganic Substances and Ecology,
Ukrainian State University of Chemical Technology, Dnipro, Ukraine

Deadline for manuscript submissions

closed (28 October 2025)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/207848

Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)





Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)



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. 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

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,
Columbus, OH 43210, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)