

## Special Issue

# Application of Modeling and Assessment in Sustainable Water Quality Management

### Message from the Guest Editor

This Special Issue focuses on cutting-edge research on the modeling, optimization, analysis, methodologies, and practical applications of wastewater treatment, water resources, and sustainable systems. It seeks to provide a platform to share cutting-edge findings and promote smart water treatment and sustainable systems. Research areas may include (but are not limited to) the following:

- Assessing and interpreting global energy emissions.
- Current advancements and anticipated developments in sustainable water quality monitoring and assessment technologies.
- Sustainable technology for water quality measurement and monitoring.
- Multi-objective optimization analyses energy, environmental, and economic impacts.
- Environmental sustainability and the rapid digitalization.
- Role of IoT, AI, and big data in water quality assessment, design, and monitoring.
- Automation, optimization, or sustainability of wastewater treatment facilities.
- Waste reuse techniques and strategies that are progressive and innovative.

I look forward to receiving your contributions.

---

### Guest Editor

Dr. Usman Safder

School of Chemical and Bioprocess Engineering, University College Dublin, Dublin, Ireland

---

### Deadline for manuscript submissions

closed (29 February 2024)



Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



[mdpi.com/si/145354](https://mdpi.com/si/145354)

*Sustainability*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sustainability@mdpi.com](mailto: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)