

Special Issue

Sustainable Aquatic Environments: Sources, Transport, and Fate of Contaminants in Waters and Sediment

Message from the Guest Editor

Water quality underpins ecosystem integrity and public health, biodiversity, habitat condition, sustainable water use, and waterfront livelihoods. To manage these resources responsibly and reduce risk, we must deepen our mechanistic understanding of contaminant transport and reliably predict its spatiotemporal dynamics in surface and ground water systems.

This Special Issue welcomes studies that develop, validate, and apply state-of-the-art frameworks for contaminant source, transport, and fate, integrating process-based models, data assimilation, and physics-informed ML to quantify water quality risk and guide management. We invite original research articles and critical reviews on topics related (but not limited) to the following:

- Eutrophication and harmful algal blooms;
- Microplastics and suspended sediment;
- Multi-scale diagnostics of contaminant sources and drivers;
- Shear dispersion and non-Fickian transport in surface and ground waters;
- Hyperspectral remote sensing and fusion with in situ sensor networks;
- Physics-informed ML for prediction and assimilation.

Guest Editor

Dr. Jun Song Kim

Department of Civil and Environmental Engineering, Hankyong National University, Anseong-si 17579, Republic of Korea

Deadline for manuscript submissions

15 December 2026



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



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

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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

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