

Special Issue

Advances in Water and Sediment Quality Assessment, Treatment Technologies, Pollution Control, and Resource Reuse

Message from the Guest Editor

This Special Issue, *Advances in Water and Sediment Quality Assessment, Treatment Technologies, Pollution Control, and Resource Reuse*, targets interdisciplinary research for sustainable water management. It focuses on assessing, protecting, and improving surface water quality and sediment conditions, emphasizing modern methods to address persistent pollutants (heavy metals, toxic compounds) and their impacts. Scope includes:

- Chemical/biological monitoring of water/sediment quality.
- Contaminant/source identification, transport/transformation analysis.
- Ecological risk assessment, sediment remediation, water resource management.
- Advanced/nature - based treatment tech, resource reuse (circular economy principles).

Purpose: Integrate scientific knowledge, provide a platform for researchers, engineers, and decision - makers. Aim to develop scalable, sustainable solutions for protecting/restoring water systems, supporting UN Sustainable Development Goals. It bridges basic research and practice, advancing pollution diagnostics, monitoring, and restoration by highlighting sediments as critical ecosystem components.

Guest Editor

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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

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