

Special Issue

Sustainable Water Resources Management: Strategies for Hydrology and the River Systems

Message from the Guest Editor

The management of water resources represents one of the most critical environmental challenges of the 21st century, particularly in arid and semi-arid regions where competing demands from agriculture, industry, and growing populations intensify pressure on limited supplies. River systems serve as lifelines for human civilization, yet they face unprecedented threats from climate change, over-extraction, pollution, and unsustainable management practices. The integration of hydrology with river system dynamics is essential for understanding water availability, quality, and distribution patterns that underpin ecosystem health and human well-being.

Recent advances in remote sensing, hydrological modeling, geospatial analysis, and environmental geochemistry have opened new avenues for comprehensive water resource assessment and sustainable management. This research area is particularly significant in transboundary river basins where hydropolitical complexities intersect with environmental concerns, demanding integrated approaches that balance ecological integrity with socioeconomic development.

Guest Editor

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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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