

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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Editor-in-Chief

Prof. Dr. Steve W. Lyon

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