

Special Issue

Leveraging the Multidisciplinary Insights to Solve Watershed Management Problems

Message from the Guest Editors

Watershed management has emerged as a critical priority in addressing global environmental challenges, including water scarcity, ecological degradation, and climate change. Effective management of watersheds—as complex natural-social systems—is essential to ensuring water security, maintaining ecological balance, and supporting sustainable socio-economic development. Key objectives include changes in watershed ecosystem services, optimal water resource allocation, ecological protection and restoration, and policy recommendations for enhancing the health of wetlands and ecosystems. However, watershed management faces dual challenges of complexity and uncertainty, necessitating the integration of multidisciplinary insights and innovative technological tools to develop science-based, adaptive, and precision-driven management strategies. In this special issue we are requesting original research articles that contribute to advancing watershed health management through innovative approaches.

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