Special Issue

Drought and Water Quality Dynamics: From River Basins to Sustainable Management

Message from the Guest Editors

Climate change accelerates droughts, now chronic threats to freshwater sustainability, ecosystems, and societies. Beyond water quantity, droughts disrupt hydrology, soil health, agriculture, and water quality—reducing flows, triggering erosion, intensifying agrochemical pollution, concentrating contaminants, and degrading ecosystems.

This Special Issue explores drought-land use-water quality linkages across scales. We seek interdisciplinary research on: climate-driven drought impacts on hydrology/nutrient cycling; water quality degradation from runoff/salinization; drought-induced feedbacks between land degradation, crop failure, and pollution; innovative monitoring/modeling; adaptive management for drought-prone areas; basin/watershed resilience case studies.

Integrating biophysical, socio-economic, and governance dimensions, contributions will illuminate resilient water/land management pathways in a drought-transformed world.

Guest Editors

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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

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