

Special Issue

Impacts of Climate Change on Water Sustainability: Rivers, Floods, Droughts, and Extreme Precipitation

Message from the Guest Editors

Climate change is significantly altering hydrological systems, intensifying extreme events such as floods, droughts, and erratic precipitation patterns. This Special Issue of *Sustainability* focuses on advancing research on climate-driven disruptions to water systems by using innovative methodologies, improved climate and hydrological models, and state-of-the-art statistical and machine-learning approaches. We welcome contributions from diverse geographic regions that explore predictive models of river flow variability, flood and drought forecasts, and the socio-economic impacts of hydrological extremes. Studies emphasizing adaptive management strategies, green infrastructure, and AI-driven hydrological predictions are particularly encouraged. We invite original research articles, case studies, and reviews that provide insights into regional vulnerabilities, ecosystem responses, and governance frameworks for climate adaptation. Through this collective effort, we seek to enhance global strategies for mitigating risks and building sustainable climate-resilient water systems for the future.

Guest Editors

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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

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