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Hydrological Modeling and Sustainable Water Resources Management

Guest Editors:

Dr. Pengxiao Zhou

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Dr. Zoe Li

Deadline for manuscript submissions:
closed (31 March 2025)

Message from the Guest Editors

Hydrological modeling and the sustainable management of water resources play a vital role in addressing the complicated challenges related to water availability, quality, and sustainability. For instance, hydrological models are essential for flood control, while the management of water resources facilitates sustainable socio-economic development.

This Special Issue welcomes contributions that push the boundaries of hydrological modeling and offer insights into the effective management of water resources. We encourage submissions that explore emerging trends such as machine learning, remote sensing, digital twins, and data assimilation techniques to enhance our understanding of hydrological processes. Additionally, studies of computer simulation, risk analysis, and decision support for water resources are welcomed. Complementing these topics, this Special Issue seeks to encompass the latest developments in environmental modeling and technology, delve into environmental management, and highlight the critical role of environmental impact and risk assessment.

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Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal Environments, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

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