

## Special Issue

# Advances in Water Conservancy and Hydropower Engineering: Modelling, Performances, Optimization Application and Environmental Effects

### Message from the Guest Editors

Hydropower plays an important role in providing clean and sustainable electricity. With the ever-increasing penetration of renewable energy into the electric system, there are considerable environmental and economic benefits from hydropower complementarity. Simultaneously, for the development and application of water conservancy and hydropower engineering, the following problems are critical: improving operational performance and regulating the capabilities of hydropower, evaluating the complementary potential of hydropower such as reducing carbon emissions and replacing fossil fuels, improving the accuracy of hydrological forecasting in optimal hydropower scheduling, and achieving safe and efficient complementary power systems. For this Special Issue, we invite scholars to submit their research that converges on advances in hydropower research and hydrological forecasting concerning the modelling, performance, optimization application and environmental effects.

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### Guest Editors

Dr. Huanhuan Li  
Dr. Runfan Zhang  
Dr. Tian Lan

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### Deadline for manuscript submissions

closed (3 January 2025)



## Water

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## About the Journal

### Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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### Editor-in-Chief

Dr. Jean-Luc PROBST

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