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Hydropower and Pumping Systems

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Deadline for manuscript submissions:
closed (31 December 2022)

Message from the Guest Editors

Dear Colleagues,

A hydropower solution relies on water flowing through a turbine to create electricity to be used by customers. In order to store energy for use at a later time, there are a number of different projects that use pumps to elevate water into a retained reservoir behind a dam, in tanks of the water sector or in natural topographic depressions—creating an on-demand energy source that can be released rapidly.

This Special Issue aims to provide a scientific forum for new investigations and engineering opportunities and applications, where scientists, researchers, and experts can submit their novel developments, new design solutions, innovative approaches in several fields of hydraulics, and techniques, methods, and analyses in order to respond to the new challenges in hydropower and pumping systems as a base of hydraulic and hydrodynamics engineering applications from micro to large scales.

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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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Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (Water Science and Technology)

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