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Advances in Hydrodynamics of Water Pump Station System

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Deadline for manuscript submissions:
closed (26 January 2024)

Message from the Guest Editors

The water pump station system includes a water pump, power machine, transmission equipment, pipeline system, and corresponding buildings. It has played an important role in agricultural irrigation, urban water supply, and regional water transfer.

The purpose of this Special Issue is to report the latest research progress on pumping station systems, especially some potential applications in operation stability and energy transformation, include but are not limited to:

- new design concept for the pump station
- methods for upgrading and transforming the existing pump station
- research on hydraulic transients of pipe networks during operation of the pump station
- research on pump efficiency and stability
- solutions or experiences linked to problems arising from the long-term operation of existing pump stations

Paper can be related to physical-scale models, numerical calculations, field measurements, and operation experience. Contributions focusing on environmental issues and sector coupling for multipurpose application of pump station systems are welcome.

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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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