

## Special Issue

# Key Technologies and Challenges of Hydraulic Machinery and Systems

### Message from the Guest Editor

Hydraulic machinery and systems are the key components for the sustainable development of energy and water resources, including various transport processes of liquids. Hydropower turbines can produce electric power, while more electrical energy is consumed by pumps every year. Nowadays, key technologies and challenges in hydraulic machinery are how to develop environmentally friendly, efficient hydropower equipment and safe, stable pumped storage systems and pumps through design optimization and smart system controls. This Special Issue aims to encourage researchers to focus on the advanced technology in hydraulic machinery and propose novel technologies. The topics of interest in this Special Issue include but are not limited to the flow mechanism in hydraulic machinery, steady and unsteady analysis, fluid–structure interaction, intelligent evaluation and diagnosis technology, cavitation and multiphase flow, and machine learning applications in hydraulic machines, and so on.

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### Guest Editor

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### Deadline for manuscript submissions

closed (29 February 2024)



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*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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### Editor-in-Chief

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