Special Issue

Advanced Design, Analysis and Optimization Techniques of Fluid Machinery Systems for Renewable Energy Storage

Message from the Guest Editors

Wind power, solar power, and other renewable energy sources for electricity generation exhibit strong intermittency, randomness, and fluctuations. As the proportion of new high-level energy power grids increases, the flexibility and security of the power system face enormous challenges. Fluid-machinery-storage hydropower is one of the best methods to maintain balance in the grid load, enabling the large-scale complementary utilization of new energy and the optimal allocation of resources. This Special Issue on "Research on fluid machinery for renewable energy" aims to report recent advances in the development of fluid machinery. Topics of interest include, but are not limited to, the following:

- The characteristics and mechanisms of complex flow in fluid machinery for renewable energy;
- Advanced recognition approaches for complex flows or processes of fluid machinery for renewable energy;
- Advanced design and optimization techniques for fluid machinery and systems for renewable energy;
- Performance enhancements of fluid machinery and systems for renewable energy.

Guest Editors

Prof. Dr. Ji Pei

Prof. Dr. Djordje Cantrak

Dr. Wenjie Wang

Dr. Xingcheng Gan

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Processes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
processes@mdpi.com

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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto
Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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