Special Issue

Energy Conversion and Management: Hydraulic Machinery and Systems

Message from the Guest Editors

The study of hydraulic machines is crucial to guaranteeing a better understanding of the hydraulic behaviour of the water systems and, therefore, their responses in terms of energy consumption and system dynamics. Research into the behaviour of hydraulic machines improves our knowledge of them and enhances their sustainability. Also, considering the transient behaviour of these devices is important to preventing damage to and reductions in efficiency. This Special Issue aims to contribute to incorporating study methodologies that address numerical, analytical or experimental methods that help the scientific community to improve the management of the systems and, therefore, to achieve improvements in the evaluations of the different goals of the sustainable development objectives (SDGs). Potential areas for research include:

- new trends in impellers and rotational speed in pump;
- analysis of behaviour of pumps using different motors or materials;
- analysis of PV systems integrating the pumped system;
- and analysis of systems in terms of unsteady flow.

Guest Editors

Dr. Modesto Pérez-Sánchez

Prof. Dr. Oreste Fecarotta

Dr. Caterina Capponi

Deadline for manuscript submissions

5 May 2025

Energies

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.2

mdpi.com/si/193933

Energies
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.2

mdpi.com/journal/energies

About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)