Special Issue

Research and Application of Fluid Machinery

Message from the Guest Editors

Fluid machinery is a device that converts the energy stored by a fluid into mechanical energy or vice versa. It is a kind of widely used machine and has great action in all fields of the national economy. The research and application of fluid machinery is an active field of research with many unsolved or partially solved problems in science and engineering. Based on this, many studies on the experimental techniques, theoretical models, and simulation calculations of the Multiphysics coupling characteristics of fluid machinery have been conducted to improve the performance of fluid machinery. For this Special Issue, we invite novel contributions in the form of critical reviews and research papers to address all key aspects of Fluid Machinery, including but not limited to the following:

- experimental techniques of fluid machinery;
- theoretical models and simulation calculations;
- design Method, control technique, and engineering application of fluid machinery;
- optimal design of fluid machinery;
- complex flow in fluid machinery;
- diagnostic analysis of fluid machinery.

Guest Editors

Dr. Tairan Chen

School of Mechanical and Vehicular Engineering, Beijing Institute of Technology, Beijing 100081, China

Dr. Huaiyu Cheng

School of Water Resources and Hydropower Engineering, Wuhan University, Wuhan 430072, China

Deadline for manuscript submissions

closed (29 February 2024)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/161450

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, 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, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)