

Special Issue

Energy Efficiency of Thermo-Fluid Systems: Latest Advances and Prospects

Message from the Guest Editors

This Special Issue aims to collect research articles on improving the energy efficiency of thermo-fluid systems. One of the main focuses will be the impact of manufacturing processes on the energy efficiency of thermal systems, which is crucial for sustainable development and achieving global climate goals. For instance, additive manufacturing, also known as 3D printing, can significantly impact the energy efficiency of thermo-fluid systems by enabling the production of complex geometries and structures that were previously impossible to manufacture with traditional methods. Additive manufacturing can facilitate the design of heat exchangers with optimized internal geometries, such as microchannels, fins, and porous media, which can further enhance thermal efficiency by increasing the surface area available for heat transfer, leading to systems with improved thermal efficiency, reduced energy, consumption, and enhanced performance in various industrial, commercial, and residential applications. For more information on the Special Issue, please visit LINK https://www.mdpi.com/journal/applsci/special_issues/6456256XA9

Guest Editors

Dr. Abdul Raouf Tajik

Division of Fluid Dynamics, Department of Mechanics and Maritime Sciences, Chalmers University of Technology, 412 96 Gothenburg, Sweden

Dr. Vladimir Parezanovic

Aerospace Engineering Department, Khalifa University, Abu Dhabi, United Arab Emirates

Deadline for manuscript submissions

closed (20 November 2024)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/si/173791](https://www.mdpi.com/si/173791)

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

[mdpi.com/journal/applsci](https://www.mdpi.com/journal/applsci)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



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)