

Special Issue

Cutting-Edge Phase Change Heat Transfer Technologies

Message from the Guest Editors

We are excited to announce this Special Issue focusing on novel and advanced phase-change heat transfer technologies. As part of our ongoing commitment to innovation and sustainability, we are seeking creative solutions that push the boundaries of heat transfer efficiency and effectiveness. The scope of this Special Issue includes, but is not limited to, the following topics: enhanced heat exchangers, advanced thermal systems and cycles, microfluidic systems, phase-change materials, energy storage, etc. In this Special Issue, we invite researchers, engineers, and innovators worldwide to submit their contributions showcasing advancements in phase-change heat transfer technologies. Submissions may include theoretical studies, experimental investigations, numerical simulations, and practical applications.

Guest Editors

Dr. Xuehui Wang

School of Mechanical and Materials Engineering, University College Dublin, Belfield, Dublin 4, Ireland

Dr. Yatao Ren

Associate Professor, School of Energy Science and Engineering, Harbin Institute of Technology, Harbin 150001, China

Deadline for manuscript submissions

closed (30 June 2025)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/199145

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

mdpi.com/journal/

[appls-ci](https://appls-ci.mdpi.com)





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)