



Sciences and Innovations in Heat Pump/Refrigeration

Guest Editors:

Prof. Dr. Takahiko Miyazaki

Faculty of Engineering Sciences,
Kyushu University, 6-1 Kasuga
koen, Kasuga-shi, Fukuoka 816-
8580, Japan

Prof. Dr. Koji Enoki

Graduate School of Informatics
and Engineering, The University
of Electro-Communications, 1-5-1
Chofugaoka, Chofu, Tokyo 182-
8585, Japan

Deadline for manuscript
submissions:

closed (31 December 2019)

Message from the Guest Editors

Dear Colleagues,

This Special Issue is a continuation from the previous Special Issue “Sciences in Heat Pump and Refrigeration”, which was successfully closed in September 2018, and we wish to attract publications related to heat pump and refrigeration. As heat pump and refrigeration are technologies used in a variety of applications, for example, air-conditioning, food preservation, hot water and steam generation, drying, cryogenic storage, etc., the related research area spans is very broad and includes both basic science and advanced engineering. Therefore, the new Special Issue welcomes basic scientific studies, such as the prediction of refrigerant properties by molecular simulation, new materials for thermally driven heat pumps, as well as applied scientific studies that lead to innovation, such as the application of AI and heat transfer enhancement by nanostructures, amongst others.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)