

Special Issue

Novel Ecofriendly Refrigeration System: Technology and Application

Message from the Guest Editors

Nowadays, refrigeration systems that employ refrigerants with low and ultra-low GWP are a reality because refrigerants with high GWP are prohibited according to new regulations. In this sense, refrigeration systems must evolve alternative configurations that promote a reduced carbon footprint whilst increasing performance. This is possible with the use of alternative refrigerants, nanofluids, and natural refrigerants. This topic is focused on novel research surrounding the development of eco-friendly refrigeration systems. The Special Issue also covers speciality areas, such as disruptive refrigeration systems.

Guest Editors

Dr. Vicente Pérez-García

Department of Mechanical Engineering, Engineering Division, Campus Irapuato-Salamanca, University of Guanajuato, Salamanca 36885, Mexico

Prof. Dr. Juan Jose Garcia Pabon

Institute of Mechanical Engineering, Federal University of Itajubá (UNIFEI), Av. BPS, Itajubá 37500-903, Brazil

Deadline for manuscript submissions

20 January 2027



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/239568

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/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, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

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