

Special Issue

High Efficient Geothermal Heat Pump and Ground Heat Exchangers

Message from the Guest Editor

Dear colleagues, Heat pump technology is one of the most sophisticated engineering achievements for heating, ventilation, and air conditioning (HVAC). The ground heat exchanger induces heat exchange with the ground formations by means of a heat carrier that circulates through closed pipes or open boreholes installed deep underground. The heat exchangers are connected with a ground heat pump system to save the energy consumption for heating and cooling buildings. We invite comprehensive reviews and original research articles. Based on your expertise, you could make an excellent contribution to this Special Issue. Papers addressing, but not limited to, the following topics are recommended:

- High-efficiency heat pump systems
- Thermally driven heat pump/refrigeration
- Heat and mass transfer enhancement
- Innovative ground heat exchangers
- Computational fluid dynamics/numerical experiments
- Design/system optimization and dynamic control

Guest Editor

Prof. Dr. Hangseok Choi

School of Civil, Environmental and Architectural Engineering, Korea University, Seongbuk-gu, Seoul, Korea

Deadline for manuscript submissions

closed (29 February 2020)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.9
CiteScore 8.3



mdpi.com/si/24471

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

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





Energies

an Open Access Journal
by MDPI

Impact Factor 3.9
CiteScore 8.3



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



About the Journal

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, 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, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)