Special Issue

Progress in Electromagnetic Analysis and Modeling of Heating Systems

Message from the Guest Editors

It is a pleasure to invite you to contribute to a Special Issue of *Energies* dedicated to the electrification of thermal processes, particularly industrial ones. Technologies that use electricity to treat and transform materials, particularly induction, dielectric, and microwave heating methods, as well as traditional electric heating with resistors, play a key role in the transition to production systems with reduced environmental impact. The electrification of industrial processes implies using electricity as the main energy source for industrial operations in place of fossil fuels, and in addition to a significant reduction in pollutant emissions, this offers other advantages related to the efficiency, precision, repeatability, and cleanliness of electrothermal processes. Interest in the technologies that we have studied or applied has received new momentum, especially with new regulations that penalize greenhouse gas emissions with the aim of achieving net-zero emissions by 2050. The topics that I would like to see covered, both as scientific articles that present the most current research and as state-of-the-art review articles.

Guest Editors

Dr. Michele Forzan

Prof. Dr. Egbert Baake

Prof. Dr. Koen Van Reusel

Deadline for manuscript submissions

24 November 2025

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/226639

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

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

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)