

Special Issue

Circuit Simulation and Modeling of Semiconductor Materials and Devices

Message from the Guest Editors

The study of new semiconductor materials has attracted increasing interest in recent years and continued to develop rapidly, especially materials that can be included in industrial, ecological, and technological applications in the fields of optoelectronics, energy, and condensed matter, which provide a very large domain of research. In seeking to satisfy technological needs, several categories of materials have surfaced from three dimensions to zero, such as diluted magnetic semiconductors, perovskites for 3D and phosphorene, and graphene for 2D. Recently, it has become necessary to analyze the characteristics of newly proposed semiconductor materials and devices and simulate their models to efficiently design new applications based on these materials. This Special Issue will be dedicated to recent and original research in the field of simulation and modeling of semiconductor materials and devices.

Guest Editors

Dr. Amine El Moutaouakil

Prof. Dr. Omar Mounkachi

Dr. Mohamed Belmoubarik

Deadline for manuscript submissions

closed (31 August 2023)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/129939

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 3.2
CiteScore 7.3



[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)