

Special Issue

Performance and Efficiency Enhancement of Solar Photovoltaics

Message from the Guest Editors

Solar photovoltaic plays a significant role in sustainable development, decarbonization of the energy sector, and for clean energy transition. This Special Issue aims at the dissemination of research results on state-of-the-art science and technology related to the improvement of the efficiency and enhancement of the power output of solar photovoltaics. The potential topics of Special Issue include but are not limited to:

- Bifacial solar PV technology
- Hybrid solar PV/thermal energy systems
- Concentrated solar PV
- New material for solar PV
- Thermal management of solar PV
- Solar PV enhancement using nanofluids
- MPPT control for solar PV systems
- Solar PV tracking system
- Soling and cleaning of solar modules
- Hybrid solar PV systems
- Modeling and simulation for the enhancement of power output of solar PV
- Design, performance analysis, and optimization of solar PV systems
- Solar PV optimization methods

Guest Editors

Prof. Dr. Chaouki Ghenai

Department of Sustainable and Renewable Energy Engineering,
College of Engineering, University of Sharjah, Sharjah, United Arab Emirates

Dr. Oussama Rejeb

Sustainable Energy Development Research Group, Research Institute
for Sciences and Engineering, University of Sharjah, Sharjah, United Arab Emirates

Deadline for manuscript submissions

closed (20 November 2021)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/88403

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)