

Special Issue

Increasing the Lifetime of Photovoltaics Systems: Advanced Materials, Monitoring, O&M and Energy Modeling

Message from the Guest Editors

Increasing the lifetime and reducing performance degradation of PV systems is vital for making PV the most cost-competitive energy resource and to transform our energy systems. To achieve this goal, we must improve the durability and reliability of PV modules and BOS equipment and respond quickly and intelligently to operational issues. New materials and manufacturing methods can increase the lifetime of PV modules in the field, but may need to be optimized for different climates. Advanced monitoring techniques and fault detection protocols significantly improve the availability of grid-connected photovoltaic (PV) systems, hence lowering investment cost, leveled cost of energy (LCOE), benefiting PV competitiveness.

Guest Editors

Prof. Dr. George E. Georgiou

Dr. George Makrides

Dr. Joshua S. Stein

Dr. Marios Theristis

Deadline for manuscript submissions

closed (31 December 2020)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/37780

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)