



energies



an Open Access Journal by MDPI

Modelling New Trends in Photovoltaics

Guest Editors:

Dr. Ana Cabrera Tobar

Department of Engineering and
Architecture, University of Trieste,
Trieste, Italy

**Prof. Dr. Alessandro Massi
Pavan**

Department of Engineering and
Architecture, University of Trieste,
Trieste, Italy

Prof. Dr. Silvano Vergura

Department of Electrical and
Information Engineering,
Polytechnic University of Bari,
Bari, Italy

Deadline for manuscript
submissions:

closed (15 July 2021)

Message from the Guest Editors

Nowadays photovoltaic (PV) grid parity is a reality in many countries of the world, while fuel parity is happening in those countries with high levels of solar irradiation. This trend has been driven by public subsidies given worldwide and by huge investments in the R&D. Nevertheless, the efficiency of PV plants can still be improved working both on their reliability and on new PV technologies. With reference to these latter, researchers are studying new materials (e.g. perovskite solar cells) and new technologies to capture more solar irradiation (e.g. bifacial PV modules). With reference to the system efficiency, researchers are studying the possibility to cover reservoir with PV fields on floating structures in order to limit the temperature losses and increase the albedo. New diagnostic strategies are also foreseen as a tool of paramount importance in order to increase the efficiency of PV systems. Among these, unmanned aerial vehicles (UAV) equipped with visible and infrared cameras are just an example of new tools used to obtain useful information regarding the performance of PV modules in big solar parks.



mdpi.com/si/47374

Special Issue



energies



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

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.

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 (*Engineering (miscellaneous)*)

Contact Us

Energies Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/energies
energies@mdpi.com
[X@energies_mdpi](https://x.com/energies_mdpi)