

## Special Issue

# Modelling New Trends in Photovoltaics

### 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.

---

### Guest Editors

Dr. Ana Cabrera Tobar  
Prof. Dr. Alessandro Massi Pavan  
Prof. Dr. Silvano Vergura

---

### Deadline for manuscript submissions

closed (15 July 2021)



## Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.9  
CiteScore 8.3



[mdpi.com/si/47374](https://mdpi.com/si/47374)

*Energies*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[energies@mdpi.com](mailto:energies@mdpi.com)

[mdpi.com/journal/  
energies](https://mdpi.com/journal/energies)





# Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.9  
CiteScore 8.3



[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)