

Special Issue

Advances in Concentrator Photovoltaics Technology

Message from the Guest Editors

The development of novel, high-efficiency photovoltaic (PV) technologies has become essential to promoting the transition to a system based on renewable energies. Concentrator photovoltaics (CPV) offers the highest solar conversion efficiencies, >40%, among all the PV technologies. This Issue aims to cover the most promising research lines to increase the efficiency and competitiveness of CPV. It is open but not limited to relevant contributions related to the novel architecture of solar cells intended to support higher concentrations or improve the spectral absorption of light. Concentrators optics tailored to improve angular tolerance, compactness, and/or concentration factor are also included. New trends to handle or exploit heat waste to further increase efficiency are also of high interest. Finally, the Issue welcomes relevant work concerning advance modelling techniques, novel CPV module configurations, hybrid systems, characterization procedures, or economic assessment, to improve our understating of PV technologies and promote their market expansion.

Guest Editors

Dr. Eduardo F. Fernández

Prof. Dr. Pedro Perez-Higueras

Dr. Florencia Almonacid Cruz

Deadline for manuscript submissions

closed (20 May 2021)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.2



mdpi.com/si/37269

Energies

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 3.0
CiteScore 6.2



[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 Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 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)