Special Issue

Solar Photovoltaics and Solar Power Plants

Message from the Guest Editors

Solar power plants are becoming increasingly important in decarbonizing the energy sector and are receiving much techno-econo-enviro-socio-policy attention. In this context, looking at recent advances in solar cell technologies, installation approaches, solar power plant types, and application-specific solar power plant designs would be interesting to make better-informed decisions for the emerging solar power market. Furthermore, a continued increase in the penetration of solar power plants could trigger multifaceted challenges that could hinder progress. Hence, this Special Issue focuses on developing and implementing solar power plants considering conflicts related to land and water use, long-term electrical and electronic waste generation, and performance issues due to various influential factors. Topics of interest include but are not limited to the following:

- Solar photovoltaics and thermal collectors;
- Thin-film solar cells; Polymer solar cells; Dyesensitized solar cells; Perovskite solar cells;
- Theoretical modeling of DC and AC PV systems;
- Solar thermal power plants;
- Building-integrated photovoltaic installations;
- PV battery systems...

Guest Editors

Dr. Nallapaneni Manoj Kumar

School of Energy and Environment, City University of Hong Kong, Hong Kong, China

Dr. Sofiane Kichou

University Centre for Energy Efficient Buildings (UCEEB), Czech Technical University in Prague, Třinecká 1024, 273 43 Buštěhrad, Czech Republic

Deadline for manuscript submissions

closed (31 December 2022)



Energies

an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 7.3



mdpi.com/si/93719

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

mdpi.com/journal/energies





Energies

an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 7.3



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)

