



energies



an Open Access Journal by MDPI

Solar Photovoltaics Trilemma: Efficiency, Stability and Cost Reduction 2018

Guest Editors:

Prof. Dr. Tapas Mallick

Environment and Sustainability
Institute, University of Exeter,
Penryn, Cornwall TR10 9FE, UK

Dr. Senthilarasu Sundaram

School of Computing,
Engineering and Digital
Technologies, Teesside
University, Tees Valley,
Middlesbrough TS1 3BX, UK

Deadline for manuscript
submissions:

closed (30 September 2019)

Message from the Guest Editors

This Special Issue focuses on very specific issues related to the efficiency of photovoltaic (PV) systems, the stability of devices, and cost reductions at the module level. However, it is not limited to these; it also includes the most promising topics of emerging PV areas, such as perovskite solar cells (PSCs), dye-sensitized solar cells (DSSCs) and biomimicking for solar energy conversion. The new generation of solar cells with particular applications and their specific location studies are also important in terms of stability of devices in real or simulated conditions. The modelling aspects of PV materials and systems are also an area of focus. The following topics of research are also acceptable in this Special Issue:

1. PV materials, stability, scaling up engineering and production
2. Thin film solar cell materials and methods
3. Perovskite thin film solar cell materials, methods, stability and cost reduction
4. Third generation solar cell materials, methods and stability
5. Concentrating PV
6. Renewable energy system integration
7. Biomimicking for Solar energy conversion
8. PSCs and their scale up issues
9. Smart switching materials



mdpi.com/si/15171

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 (Control and Optimization)

Contact Us

Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

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