# Special Issue

# Solar Photovoltaics Trilemma: Efficiency, Stability and Cost Reduction 2018

## 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:

- PV materials, stability, scaling up engineering and production
- Thin film solar cell materials and methods
- Perovskite thin film solar cell materials, methods, stability and cost reduction
- Third generation solar cell materials, methods and stability
- Concentrating PV
- Renewable energy system integration
- Biomimicking for Solar energy conversion
- PSCs and their scale up issues
- Smart switching materials

## 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)

**Energies**

**an Open Access Journal by MDPI**

**Impact Factor 3.2**
**CiteScore 7.3**

mdpi.com/si/15171

*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

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)

MDPI