



*energies*



an Open Access Journal by MDPI

## Cutting-Edge Solar Panel and Cell Technologies

Guest Editor:

**Prof. Dr. Jabar H. Yousif**

Faculty of Computing and  
Information Technology, Sohar  
University, Sohar, Oman

Deadline for manuscript  
submissions:

**closed (10 November 2022)**

### Message from the Guest Editor

Dear Colleagues,

Solar energy is a feasible renewable energy option used to meet power needs at a low cost. Thus, the search for methods to boost PV modules' efficiency and power production has intensified. Therefore, it is necessary to find efficient ways to harness the sun's energy and transform it into electricity using solar photovoltaics (PVs). Developing high-quality technology to make solar energy affordable for consumers and industries increases competitiveness in global markets. This Special Issue focuses on the cutting-edge solar and cell technologies that keep solar power in the energy spotlight.

Topics of interest for publication include, but are not limited to:

- Bifacial solar panels;
- Building-integrated photovoltaics (BIPV);
- Concentration photovoltaic cells (CPVs);
- Heterojunction technology (HJT);
- Half-cell technology;
- Multi-junction solar cells;
- Perovskite solar cells;
- Crystalline silicon solar cells;
- Thin-film solar cells;
- Multijunction solar cells
- Organic solar cells;
- Dye-sensitized solar cells (DSSCs).



[mdpi.com/si/118312](https://mdpi.com/si/118312)

# Special Issue



# *energies*



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Enrico Sciubba**

Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 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](http://www.mdpi.com)

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