

## Special Issue

# Solar Energy Collection, Conversion and Utilization

### Message from the Guest Editors

Solar energy conversion systems represent a strong opportunity for low-cost electricity, heat production, and even thermochemical processes. These systems, which are associated with thermal storage systems (latent or sensible heat), are a promising alternative for the electrification of processes and technologies, and could result in immediate technical and technological realization in residential/services sectors.

The range of technologies fitting the scope of such processes is wide (e.g., flat plate collectors, evacuated collectors, CPC-type collectors, linear Fresnel reflectors, parabolic troughs, central tower receivers, etc.), depending upon the desired operating temperature for each process. This Special Issue invites original review articles on recent advances in solar energy collection systems concerning the abovementioned topics, with an emphasis on new developments of this technology seeking maximum performance and cost-effectiveness.

---

### Guest Editors

Dr. Diogo Canhão de Sousa Canavarro

SOL4R, Polo da Mitra da Universidade de Évora, Edifício Ário Lobo de Azevedo, 7000-083 Nossa Senhora da Tourega, Portugal

Prof. Dr. Manuel Collares-Pereira

Renewable Energies Chair, Polo da Mitra da Universidade de Évora, Edifício Ário Lobo de Azevedo, 7000-083 Nossa Senhora da Tourega, Portugal

---

### Deadline for manuscript submissions

closed (20 February 2025)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/137101](https://mdpi.com/si/137101)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[applsci@mdpi.com](mailto:applsci@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[applsci](https://doi.org/10.3390/applsci)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, 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, Inspec, Embase, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )