

## Special Issue

# Advances in Solar Cells and Photovoltaic Nanomaterials

### Message from the Guest Editors

Reducing manufacturing costs and improving conversion efficiency are the main challenges in making solar cells competitive, contributing to sustainable development and the use of alternative energy sources. Novel nano-engineered materials and quantum technologies have opened the path to the development of the new generation of high-performance solar cells; high efficiency, low-cost modules; large-scale manufacturing; light-weight and high-specific power; thermal storage and transport; new designs and applications. This Special Edition will focus on cutting-edge technologies and the latest research and developments in the field of photovoltaics and nanomaterials for solar cell technology advancement. New effects and concepts to investigate include quantum technologies and quantum solar cells.

### Guest Editors

Dr. Ana Gomes Silva

Faculty of Science and Technology, Universidade Nova de Lisboa, P-2829-516 Caparica, Portugal

Dr. Davide Raffaele Ceratti

Laboratoire de Chimie de la Matière Condensée de Paris, (UMR 7574 Sorbonne Université, CNRS, Collège, France

### Deadline for manuscript submissions

closed (19 July 2024)



## Processes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.5



[mdpi.com/si/175643](https://mdpi.com/si/175643)

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

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





# Processes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.5



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



## About the Journal

### Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

---

### Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, 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, AGRIS, and other databases.

#### Journal Rank:

CiteScore - Q2 (Chemical Engineering (miscellaneous))