

## Special Issue

# Emerging Materials and Devices for Perovskite-Based Technologies

### Message from the Guest Editors

This Special Issue, “Emerging Materials and Devices for Perovskite-Based Technologies”, seeks to gather state-of-the-art contributions addressing these challenges through novel material synthesis, advanced characterization, and innovative device architectures. Topics of interest include new perovskite compositions (low-lead, lead-free, low-dimensional, and doped systems), defect passivation and interface strategies, scalable deposition techniques, and encapsulation approaches. Contributions on perovskite-based photovoltaics, LEDs, photodetectors, catalytic systems, and energy-storage devices are highly encouraged. Studies involving computational modeling, machine learning, and in situ/operando methods applied to understand degradation and improve device reliability are also welcome. By combining fundamental insights and applied research, this Special Issue aims to outline pathways toward robust, sustainable, and commercially relevant perovskite technologies.

### Guest Editors

Dr. Arian Espinosa Roa

Dr. Mirna Denisse Barreiro-Argüelles

Prof. Dr. Edgar González-Juárez

### Deadline for manuscript submissions

31 March 2026



## Processes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.5

---



[mdpi.com/si/252529](https://mdpi.com/si/252529)

*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))