

## Special Issue

# Synthesis, Characterization and Applications of Metal Oxide Nanomaterials (MONs)

### Message from the Guest Editors

Metal oxide nanomaterials have gained significant attention in the last decade due to their extraordinary electric, optical, magnetic and catalytic properties and biological effects. Different synthesis methods, such as hydrothermal reaction, sol-gel process, co-precipitation, electrospinning and green synthesis, need to be optimized to enable broad applications. This themed Special Issue aims to promote the most recent contributions related to advanced synthesis and characterization methods of metal oxide nanomaterials for use in diverse applications such as waste water treatment, catalysis, gas sensing and biosensing, the food industry, wound healing and tissue engineering. Contributions concerning the replacement of toxic chemical compounds used in synthesis with green alternatives are also welcome. **Keywords**

- nanostructured materials
- green synthesis
- electrospinning
- characterization methods
- food packaging
- photocatalysis
- sensors and biosensors

---

### Guest Editors

Dr. Jelena D. Vujančević

Jožef Stefan Institute, Ljubljana, Slovenia

Dr. Zorka Z. Vasiljevic

Institute for Multidisciplinary Research, University of Belgrade, 11030 Belgrade, Serbia

---

### Deadline for manuscript submissions

closed (30 August 2024)



## Processes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.5



[mdpi.com/si/157687](https://mdpi.com/si/157687)

*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))