

## Special Issue

# Advances in Functional Nanomaterials for Environmental Applications

### Message from the Guest Editors

This Special Issue aims to assemble and review a broad range of ideas with inter- and multidisciplinary from leading experts in the fields of chemistry, physics, nanotechnology, materials science, and engineering.

This Special Issue is focused on the emerging concepts in and improvement of environmental basic research, and will cover the following topics (but is not limited to these):

- The design and synthesis of functional nanomaterials;
- Environmental remediation (water treatment and pollutant removal);
- Photocatalysis;
- Novel transport/transformation of nanomaterials and contaminants;
- Nature-inspired materials in environmental applications;
- Solar-energy-driven photocatalysis;
- Sustainable materials originating from safe and natural resources;
- Environmental sensing and monitoring.

It is our pleasure to invite you to submit a manuscript to this Special Issue. Full papers, short communications, and reviews will be greatly appreciated.

---

### Guest Editors

Dr. Simona Zuppolini

Dr. Anna Borriello

Prof. Dr. Armando Zarrelli

---

### Deadline for manuscript submissions

closed (20 July 2022)



## Materials

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.1  
CiteScore 6.4  
Indexed in PubMed



[mdpi.com/si/80346](https://mdpi.com/si/80346)

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

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





# Materials

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.1  
CiteScore 6.4  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

---

### Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

---

### 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), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

#### Journal Rank:

JCR - Q1 (Metallurgy and Metallurgical Engineering) /  
CiteScore - Q1 (Condensed Matter Physics)