

## Special Issue

# Advanced Materials and Devices for Applied System Innovation

### Message from the Guest Editors

In recent years, the applications of advanced materials have been highly-developing fields, notably, in the areas of semiconductor and electronic device technology, design, manufacturing, physics, and modeling.

Therefore, the fields of electrical and mechanical materials have always been hot research areas. The scopes not only encompass material sizes at the nanoscale but also in various dimensions, where the onset of size-dependent phenomena usually enables novel applications. Excellent papers with relevant topics are welcomed, including fundamental and advanced materials of electrical and mechanical engineering, their synthesis and engineering, their application in optical sensors, magnetic, acoustic, and thermal transduction, their integration with many elements, designing of electrical or mechanical devices, evaluation various performance and exploring their broad applications in industry, environmental control, material analysis, etc.

---

### Guest Editors

Prof. Dr. Sheng-Joue Young

Prof. Dr. Liang-Wen Ji

Dr. Yen-Lin Chu

Dr. Yi-Hsing Liu

Dr. Stephen D. Prior

---

### Deadline for manuscript submissions

closed (10 November 2023)



## Materials

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 6.4  
Indexed in PubMed



[mdpi.com/si/95674](https://mdpi.com/si/95674)

*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 3.2  
CiteScore 6.4  
Indexed in PubMed



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



## About the Journal

### Message from the Editorial Board

*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.

---

### Editors-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

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

---

### 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 - Q2 (Metallurgy and Metallurgical Engineering) /  
CiteScore - Q1 (Condensed Matter Physics)