

## Special Issue

# Next-Generation Alloys: Nanostructured Metals, Complex Steels, and Multi- Component Systems

### Message from the Guest Editors

This Special Issue aims to showcase cutting-edge research that advances our understanding of structure–property relationships in these advanced metallic systems, while highlighting innovations in processing, characterization, and computational design approaches that enable their practical implementation. **Topics of Interest:** We invite submissions addressing, but not limited to, the following themes:

- Nanostructured Metals,
- Complex Steels,
- Multi-Component Systems,
- Design and Processing Innovation,
- Advanced Characterization and Modeling,
- Performance and Applications,

---

### Guest Editors

Dr. Saurabh Tiwari

School of Materials Science and Engineering, Yeungnam University,  
Gyeongsan 38541, Republic of Korea

Prof. Dr. Nagireddy Gari Subba Reddy

Virtual Materials Laboratory, School of Materials Science and  
Engineering, Engineering Research Institute, Gyeongsang National  
University, Jinju 52828, Republic of Korea

---

### Deadline for manuscript submissions

20 April 2026



## Materials

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 6.4  
Indexed in PubMed



[mdpi.com/si/247585](https://mdpi.com/si/247585)

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