

## Special Issue

# Advanced Structural Steels and Alloys

### Message from the Guest Editors

Metallic alloys have had a considerable impact on the development of a wide range of structural applications. Improving mechanical performance, strength in particular, has been the driving force for intensive research in the field of advanced steels and alloys. This can be achieved by means of a suitable combination of chemical composition and thermo-mechanical processing to optimise the microstructures of alloys. Therefore, in-depth understanding of the relationship between the processing, microstructure, and properties of advanced structural alloys is required. With this context in mind, the aim of this Special Issue of *Materials* is to provide a forum for publishing high-quality original research articles related to microstructure, texture, and mechanical properties of advanced steels and alloys. This issue invites submissions that employ various experimental techniques or/and simulations to advance the knowledge of the relationship between the processing, structure, and properties of structural metallic alloys. Comprehensive reviews in the field of steels and alloys are also welcomed.

---

### Guest Editors

Prof. Dr. Xinjun Sun

Prof. Dr. Wenwen Sun

Dr. Lu Jiang

---

### Deadline for manuscript submissions

closed (10 December 2022)



## Materials

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 6.4  
Indexed in PubMed



[mdpi.com/si/102405](https://mdpi.com/si/102405)

*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)