

## Special Issue

# Materials Science at Northeastern University: Celebrating the 100th Anniversary

### Message from the Guest Editors

Northeastern University (HEU) was founded in 1923, with Wang Yongjiang, governor of Fengtian province, serving as the first president. It is a leading institution in metallurgical engineering, as well as automation- and machine-manufacturing-related disciplines, in China and around the world. Historically, teachers and students of Northeast University were the main force and pioneers of the "12.9" movement. During the construction period, Northeastern University has successively developed a large number of high-level scientific research achievements, such as China's first electronic analog computer, the first domestic CT, the first super steel, new smelting technology for vanadium-titanium magnetite, the theory and technology of energy conservation in the steel industry, controlled rolling and cooling technology, and hybrid intelligent optimization control technology.

- high-strength steel
- green manufacturing
- new smelting technology
- energy conservation
- intelligent manufacturing
- mineral processing
- engineering mechanics
- environmental science

---

### Guest Editors

Prof. Dr. Xianghua Liu

School of Materials Science and Engineering, Northeastern University,  
Shenyang 110819, China

Dr. Haitao Gao

State Key Laboratory of High Performance Complex Manufacturing,  
Light Alloys Research Institute, Central South University, Changsha  
410083, China

---

### Deadline for manuscript submissions

closed (20 August 2024)



## Materials

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 6.4  
Indexed in PubMed



[mdpi.com/si/165562](https://mdpi.com/si/165562)

*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)