

## Special Issue

# Special Materials for Shipbuilding

### Message from the Guest Editors

This Special Issue covers research topics related to special materials for shipbuilding, aiming to have lightweight, safe and economical ship structures through their entire lifetime. We warmly invite papers on material manufacture, forming, as well as those on the mechanics of the ship structures made of various metals and composites. A rapid review process and open-access publication will be provided for the high-quality papers on the following topics:

- Metal manufacture techniques;
- Metal forming;
- Strength assessment of ship structures;
- Design and optimization of lightweight structures;
- Ultimate strength of plates, stiffened panels and hull girders;
- Fatigue strength and crack growth of joint structures;
- Impact strength of ship structures;
- Vibration and noise;
- Corrosion effect;
- Steel and aluminum alloy structures;
- Composite structures.

### Guest Editors

Prof. Dr. Bin Liu

Green & Smart River-Sea-Going Ship, Cruise and Yacht Research Centre, Wuhan University of Technology, Wuhan, China

Prof. Dr. Kun Liu

School of Naval Architecture and Ocean Engineering, Jiangsu University of Science and Technology, Zhenjiang, China

### Deadline for manuscript submissions

closed (30 June 2022)



## Metals

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.3



[mdpi.com/si/87931](https://mdpi.com/si/87931)

*Metals*

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

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

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





# Metals

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.3



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



## About the Journal

### Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

---

### Editors-in-Chief

Prof. Dr. Hugo F. Lopez

Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

Prof. Dr. Yong Zhang

Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) /  
CiteScore - Q1 (Metals and Alloys)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).