

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

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Deadline for manuscript submissions

closed (30 June 2022)



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About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Yong Zhang

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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 18.7 days after
submission; acceptance to publication is undertaken in 2.7
days (median values for papers published in this journal in
the second half of 2025).