

Special Issue

Wear Resistance of Metallic Materials

Message from the Guest Editor

Development of new wear resistant materials has been in the forefront of academic and industrial research. International Energy Agency estimates the largest impact for carbon dioxide emissions reduction from the end-use energy efficiency. An effective solution to reduce the emissions is to improve the performance and efficiency of machinery. Wear resistant materials with optimized tribological properties can effectively mitigate the performance loss and reduce GHG emissions. In this Special Issue, we welcome articles that focus on the recent evolution of wear resistant metallic materials. This includes wear of metallic alloys, metal matrix composite, surface treatments, protective coatings, welding overlays and high entropy alloys. We also intend to outline the fundamental development and use of new wear testing methods and standards, wear modelling and validation as well as the modelling of tribo-systems, wear mechanisms, processing-properties and structure relationship of metallic materials and their wear behavior. Such submissions should include the foundation in prior knowledge and how the current approach is implemented to explore these relationships.

Guest Editor

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Deadline for manuscript submissions

closed (30 August 2023)



Metals

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Impact Factor 2.5
CiteScore 5.3



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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

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