metals

an Open Access Journal by MDPI

IMPACT FACTOR 2.5

CITESCORE 5.3

Studies on Wear, Friction and Fatigue Behaviour of Rail Transit Metallic Materials

Guest Editor:

Prof. Dr. Yizhu He
School of Materials Science and Engineering, Anhui University of Technology, Maanshan 243099, China

Deadline for manuscript submissions:
closed (30 June 2023)

Message from the Guest Editor

Dear Colleagues,

The advancement of railway technologies towards high-speed and heavy-haul railways has become an important development target for countries all over the world. Wheel-rail is a crucial part of the vehicle track system, and its service status is directly related to the safety and economy of train operation. Wear, friction and fatigue occur on wheel tread and the trail surface, which negatively affects the service life of trains.

This Special Issue focuses on the wear, friction and rolling contact fatigue of wheel and rail in high-speed/heavy-haul types of railway. The research collated in this Special Issue will provide a beneficial reference for reducing wheel/rail surface damage and ensuring the reliable operation of railway systems.

Prof. Dr. Yizhu He
Guest Editor

metals

IMPACT FACTOR 2.5

CITESCORE 5.3

an Open Access Journal by MDPI

Editor-in-Chief

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

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.

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), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Metals and Alloys)

Contact Us

Metals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/metals
metals@mdpi.com
𝕏@Metals_MDPI