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

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The advancement of railway technologies towards highspeed and heavy-haul railways has become an important development target for countries all over the world. Wheelrail 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











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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 metallurgical field the 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.

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