Special Issue

Advances in Rolling Process of Metallic Materials: Measurement, Modeling, Optimization and Applications

Message from the Guest Editor

We are delighted to invite you to contribute to this Special Issue, which is dedicated to supporting the highquality development of the iron, steel, and non-ferrous metals industries. This Special Issue seeks to provide a comprehensive analysis of rolling technology and facilitate the exchange of knowledge regarding key challenges and innovative accomplishments in the field. It also aims to explore future development trajectories for green, efficient, low-carbon, and intelligent rolling processes. We welcome the submission of original research articles and reviews. The scope of this Special Issue includes, but is not limited to, the following topics: Recent advances and future trends in rolling technologies; Development and application of online quality inspection technologies; High-precision modeling and control techniques for rolling processes; Applications of industrial big data analytics in rolling production; Artificial intelligence algorithms and smart factory implementation; Innovations in rolling processes and product development for high-quality metallic materials; Rolling production equipment, instrumentation, heating, heat treatment, and related technologies.

Guest Editor

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

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