Special Issue

Advanced Rolling Technologies of Steels and Alloys

Message from the Guest Editors

This Special Issue of Metals is dedicated to exploring the latest scientific and technological advancements in the field of rolling technologies for a wide spectrum of metallic materials. The scope encompasses fundamental research and industrial innovations related to the rolling of steels, non-ferrous alloys—including aluminium, magnesium, copper, and titanium—into various product forms such as sheets, plates, strips, tubes, pipes, structural sections, bars, and wire.

A key focus will be on novel rolling processes and the development of next-generation equipment designed to achieve superior properties, enhanced efficiency, and improved sustainability. Furthermore, this Special Issue will highlight the production of metal matrix composites (MMCs) and the manufacturing of laminated or cladding composites, where rolling is essential for creating robust metallurgical bonds between dissimilar metals. The processing of advanced functional materials is also strongly encouraged to contribute.

- rolling
- twin-roll casting
- pass design
- strip
- pipe
- wire
- bar
- composite materials

Guest Editors

Dr. Ce Ji

Prof. Dr. Zbigniew Pater

Prof. Dr. Laszlo J. Kecskes

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Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

mdpi.com/journal/metals

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About the Journal

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 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.

Editors-in-Chief

Prof. Dr. Hugo F. Lopez
Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

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

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