Special Issue

Advances in Metal Rolling Processes—2nd Edition

Message from the Guest Editor

Rolling is considered one of the most efficient formation processes. It plays an important role in the automated production of metal foils and strips. The shape and properties of the material are important criteria used in the rolling process to evaluate strip quality. Therefore, many factors, such as metal flow characteristics, shape detection and control, work hardening, and the size effect, must be researched in detail. According to these mechanisms, there may be opportunities for some better rolling methods. For example, asynchronous rolling, electro-plastic rolling, extrusion rolling, and warm rolling are often used to produce foils from difficult-to-deform metals. Overall, newer and better processes should be studied continuously by researchers. This will contribute to the efficient industrial application of key technologies and the industrialization of rolling products. All these aspects deserve special attention.

This Special Issue provides an excellent opportunity to publish theoretical and experimental studies on metal rolling, including alloy steel, magnesium alloys, amorphous alloys, and high-entropy alloys.

Guest Editor

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Deadline for manuscript submissions

30 April 2026

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/255204

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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 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.

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