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Rolling of Metals

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Deadline for manuscript submissions:
closed (30 April 2020)

Message from the Guest Editor

Metal rolling remains a relevant deformation process employed for the high volume production of wrought metal sheets, plates, bars, pipes and rods that are used in subsequent metalworking processes. As rolled metal products continue to comprise a substantial portion of manufactured metal products, the rolling of metals has attained a position of major importance in the metalworking industry. The complexity of metal rolling includes the refinement of the metal microstructure and texture, which has a distinct influence on establishing the final mechanical properties of the metal and has led to extensive research in this field. These interactions have been noted to be influenced by the thermo-physical and mechanical properties as well as the surface conditions of the work roll and work piece; the lubrication conditions; and the rolling parameters engaged.

For this Special Issue of *Metals*, we welcome reviews and articles in the areas of principle, computer-aided modeling, microstructural evolution, near-surface microstructure development and characterization, roll coating, lubrication (coolant), and the tribology of rolling.

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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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