Special Issue

Metal Plastic Deformation and Forming

Message from the Guest Editor

Metallic materials are widely used in the aerospace, transportation, and petrochemical industries. On the one hand, advanced plastic forming processes help to prepare high-performance parts with complex shapes. On the other hand, advanced severe plastic deformation processes can greatly improve the microstructure and mechanical properties of metal materials. The goal of this Special Issue is to publish original, important, and developed research papers that focus on metal plastic deformation and forming. In this Special Issue, we welcome the latest research on metal plastic deformation and forming. Appropriate topics include but are not limited to the following: metal material stamping, forging, extrusion, bending, or torsion forming process and finite element simulation technology: the severe plastic deformation process of metal materials; and the microstructure evolution, mechanical properties test, and related simulation during plastic deformation.

Guest Editor

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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.

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