Special Issue

Forming Mechanism for Extrusion of Metals and Alloys

Message from the Guest Editors

Dear colleagues, Extrusion processing is a common method that is currently being used in the plastic forming of metals and alloys. In recent years, in addition to improving direct/indirect extrusion processing methods, new technologies have been proposed. The forming mechanism for the extrusion of metals and alloys, which includes the control and characterization of a material's final properties and the analysis of the forming mechanism that is is activated during the extrusion processing, are the scope of this Special Issue. Fundamental research and technological innovation promote the integration of extrusion technology. It is particularly critical to find existing shortcomings,to attempt to make breakthroughs, and to continuously bring new research topics and development paths to the forefront. In this Special Issue, we welcome articles that focus on novel extrusion technologies and their influence on the final mechanical properties and formability of materials, including steels and nonferrous alloys (magnesium/aluminum/titanium alloys, etc.).

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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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