Special Issue

Metal Forming and Additive Manufacturing

Message from the Guest Editor

Traditional plastic forming techniques, such as forging, rolling, and extrusion, play a vital role in improving the mechanical properties of metallic materials. With the development of advanced materials design, an abundance of a new generation of materials, including high-entropy alloys and advanced high-strength automotive steel, have emerged. More attention should be directed towards their formability as well as the new phenomena associated with the forming process. Their relationship with process parameters, microstructures and mechanical properties is also attarcting more academic interest. Additive manufacturing is an innovative technique that has incentivized many researchers to study the physical, metallurgical and thermomechanical events during additive manufacturing. Some significant attempts have been made to couple this technique with the traditional forming processs to optimize the overall performance of additive manufactured components. All these aspects constitute the scope of this Special Issue, and we welcome articles that are related to these topics.

Guest Editor

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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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