Special Issue

Forming and Mechanical Properties of Metals

Message from the Guest Editor

Recently, many different types of forming processes with ferrous/nonferrous metals and other materials have been proposed. The various and sophisticated forming processes do not only improve the efficiency of manufacturing process but also enhance the mechanical properties of manufactured products tremendously. It is substantially complicated to optimize manufacturing processes, since any such optimization depends on the status of the initial material and its mechanical or chemical properties. Under these circumstances, it is necessary to introduce concepts related to the many types of manufacturing processes, including forming and joining, and so on, and combine them with our understanding of the material properties. The purpose of this Special Issue is to present the latest plastic forming research related to the material properties of input materials through various experimental or analytical approaches. Furthermore, studies related to new materials or forming processes with superior performance over conventional ones are also be welcomed.

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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