



Computational Advanced Metallic Materials Processing

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Sustainable manufacturing is the notion of new research directions and initiatives in the automotive, aerospace, shipbuilding, defense, power plant, offshore plant industries, and so on. The utilization of proper simulation tools is indispensable in the pursuit of sustainable manufacturing. Furthermore, modeling and simulation of materials behavior are of great importance to understand and tailor microstructure and texture evolution during the manufacturing process conditions. Various research topics involved with sustainable materials processing are of interest: i) innovative manufacturing with CAE; ii) development and application of metal forming simulation technique; iii) multiscale microstructure-based material modeling.

Prof. Dr. Dong-Kyu Kim
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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