Special Issue

Processing and Fabrication of Advanced Materials

Message from the Guest Editors

The current Special Issue focuses on recent advances made in the field of materials and their manufacturing, with the primary purpose being to develop a deep understanding of interdisciplinary developments in all aspects related to the processing and fabrication of advanced materials focusing on metals. This Special Issue aims to provide a collection of the latest advances on aspects related and relevant to materials processing and fabrication from both a research perspective as well as an engineering and industrial and application perspective in the fields of:

- Materials
  - Metals and metal–matrix composites; Coatings; Magnetic materials; Metallic glasses; Materials for wind-power systems; Intermetallic(s); Intermetallic-matrix composites; Nanomaterials and nanocomposites; Functional materials
- Manufacturing technologies
  - Additive manufacturing; Casting; Microwave processing of materials; Powder metallurgy; Machining; Surface treatments
- Materials simulations and characterization
  - Process and microstructure relations; Process and defect formation; Materials properties predictions; Component behavior

Guest Editors

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Prof. Dr. Tirumalai S. Srivatsan

Deadline for manuscript submissions

closed (20 December 2019)

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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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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.5 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2024).

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