Special Issue

Liquid Metal and Its Applications

Message from the Guest Editors

"Liquid Metal and Its Applications" is a broad title intended to cover some of the recent developments that have contributed most significantly to the increase in the technological applications of these materials. The liquid (or molten) state occurs at widely varying temperature intervals for different metals and alloys. Understanding liquid metals is essential for many processing techniques, such as infiltration or brazing, leading to metal-based materials with useful properties in many applications, including construction, armament, transportation or electronics. The latest advances in liquid–liquid transitions faced by many metals, nanocontact transport properties, and achievements in amorphous alloy development are still open research fields. The editors of this volume are convinced that the set of contributions contained therein shows only one apex of the significant progress made in this area recently, and that it can certainly inspire many researchers to go into this discipline of enormous interest.

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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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