Special Issue

Mechanical and Microstructural Behaviour of Heterogeneous Metallic Materials

Message from the Guest Editors

The proper manufacturing of heterogenous metallic materials requires the knowledge of new processing techniques and routes together with the optimum parameters that lead to a positive strength–ductility synergy. These routes can be associated with, but not limited to, severe plastic deformation plus heat treatments or the new disruptive technologies from additive manufacturing. Furthermore, understanding the behavior of heterogeneous metallic materials is essential to analyze the microstructural and mechanical variations across the interphases of the hard and soft zones where a heterogeneous deformation state occurs. Therefore, this issue invites the material science community to submit research papers dealing with the fundamentals, design, simulation, and characterization of heterogeneous metallic materials using innovative processing routes that help to understand the strengthening mechanism of these particular materials.

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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