Special Issue

High Performance Nonferrous Alloys: Composition, Microstructure and Properties

Message from the Guest Editor

The development of new nonferrous metallic constructive and functional materials with a desired structure results in beneficial combinations of mechanical properties and performance. Various thermo-mechanical treatments are widely used to produce metallic materials, with a preferred microstructure achieved owing to the diverse mechanisms of its evolution. The knowledge about the effect of the composition and applied techniques, as well as the processing window on the structural changes in the nonferrous alloys provides the development of manufacturing methods of structural materials with an enhanced performance. The aim of this Special Issue is to present the latest achievements in the theoretical and experimental investigations of the composition and microstructural changes in various nonferrous materials subjected to different processing methods, and of their performance. In conclusion, it is my pleasure to invite all researchers from the community of nonferrous metals and alloys to submit a manuscript in the field for this Special Issue.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2021)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/26947

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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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