Special Issue

Advanced Materials for Multifunctional Applications

Message from the Guest Editors

The impact of different microstructural aspects and corrosion resistance on the mechanical behavior of the allovs is important to study, in order to obtain highperformance materials. The aim of this Special Issue is to present the latest achievements in the theoretical and experimental investigations of the microstructural aspects, mechanical properties, and corrosion resistance in various metallic materials subjected to different processing methods; the latest advancements relating to their performance for various applications in the medical field, automotive industry, mechatronics and robotics are also highly relevant. This Special Issue aims to address the microstructural evolution and its impact on the mechanical and corrosion properties of advanced engineering alloys. Papers dealing with processing techniques, modeling of the mechanical behavior, characterization of material microstructure, influence of corrosion resistance and biocompatibility, as well as advanced applications, are encouraged. Full papers, communications, and reviews are all welcome.

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Deadline for manuscript submissions

closed (20 August 2023)



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Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/71014

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About the Journal

Message from the Editor-in-Chief

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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