Special Issue

Microstructure and Mechanical Properties of Alloys

Message from the Guest Editor

Metal alloys are widely used in industrial products, and their microstructure and mechanical properties directly affect the performance of products. During the whole life cycle of a metal product, its microstructure and mechanical properties will undergo multiple stages of evolution. It is crucial to study the micro store and properties of alloys in the whole life cycle to promote the development and application of alloys. The aim of this Special Issue is to provide an updated outlook on the microstructure and mechanical properties of alloys at various stages, including the preparation, processing and service stages. Especially the correspondence between alloys microstructure and mechanical properties needs to be established. These papers can help resolve and understand the evolution of properties of alloys products at different stages. This will help to adjust and design the microstructure and mechanical properties of alloys throughout the whole life cycle. This Special Issue represents a good opportunity for researchers around the world to disseminate different aspects of their work and report the results related to this topic.

Guest Editor

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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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