Special Issue

Structure and Mechanical Properties of Transition Group Metals, Alloys, and Intermetallic Compounds

Message from the Guest Editor

The development of metallic/intermetallic constructive materials with desired structures results in beneficial combinations of mechanical properties. Various thermo-mechanical treatments are widely used to produce metallic materials with preferred microstructures, achieved owing to diverse mechanisms of evolution. Knowledge regarding the effect of applied techniques and processing windows on the structural changes in metals, alloys and intermetallic compounds provides the development of manufacturing methods of structural materials with enhanced mechanical properties. The aim of this Special Issue is to present the latest achievements in theoretical and experimental investigations of mechanisms of microstructural changes in various metallic materials subjected to different processing methods, as well as their effect on mechanical properties. It is my pleasure to invite all researchers from the community of transition group metals, alloys, and intermetallic compounds to submit a manuscript in the field for this Special Issue.

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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