Special Issue

Microstructure and Mechanical Properties of Alloys and Steels

Message from the Guest Editor

In order to reduce oil consumption and avoid the related environmental problems, scientists are always looking for structural materials that show high performance during both processing and application. In this regard, metals and their alloys have been the focus of research and are receiving a great deal of interest in both industrial and academic fields. In addition, the processing techniques used for the fabrication and structure modifications of these materials, including conventional processing methods and the more developed methods are also of importance. Furthermore, the deep understanding of the relationship between processing conditions and structural parameters from one side, and the associated mechanical properties from the other, are the main targets of metal-related research. Accordingly, this Issue will gather works that present recent developments related to metals and their alloys, in terms of processing–structure–mechanical properties relationships. Here, topics on various kinds of metallic materials, processing techniques, structural parameters, and mechanical properties will be warmly welcomed.

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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