Special Issue

Quality, Microstructure and Properties of Metal Alloys (Third Edition)

Message from the Guest Editor

The continuous improvement of metal alloys requires comprehensive knowledge of their microstructure well as their chemical, physical, and mechanical properties. To achieve optimal results, this Special Issue aims to encourage scientists worldwide to present their achievements in the broad field of enhancing the properties of metal alloys. We welcome original scientific papers and reviews that describe current research directions related to the properties of both ferrous and non-ferrous alloys. Research on cast, plastically deformed, or welded materials is also encouraged.

This Special Issue welcomes a wide range of studies focused aimed at improving the mechanical properties of metal alloys. We invite contributions on both ferrous and non-ferrous systems, without restrictions on the research approach or alloy type. Topics of interest include, but are not limited to, the following:

- Modification of casting alloys;
- All aspects of metal and alloy properties;
- Crystallization processes;
- Fatigue strength;
- The quality and properties of welded joints;
- Metal alloys;
- Tensile strength;
- Heat treatment;
- The quality of metal and metal alloys;
- Welding;
- Plastic working;
- Corrosion;
- Nonmetallic inclusions.

Guest Editor

Prof. Dr. Tomasz Lipiński

Department of Material and Machine Technology, The Faculty of Technical Sciences, University of Warmia and Mazury in Olsztyn, 10-719 Olsztyn, Poland

Deadline for manuscript submissions

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Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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