Special Issue

Structure and Mechanical Properties of Alloys

Message from the Guest Editor

The dynamic industry development is demanding higher and higher requirements for present constructions and elements in relation to the anticipated working conditions and existing real needs, thus supporting as well as directing the progress in the field of material engineering and favouring the production, testing, and analysis of new materials. Modern, advanced engineering materials allow for the design of more advanced, safe-to-use, and energy-saving constructions, characterised by significantly better corrosion resistance and higher mechanical strength compared to the materials used until recently. Contemporary trends in material engineering related to metallic materials concern mainly the reduction of their grain size, structure modifications using thermal. chemical, and mechanical treatment, as well as the decrease of the specific weight of the finished elements by using light metal alloys such as those containing aluminium, magnesium, and titanium. This Special Issue will focus on the influence of special treatment processes on the evolution of the microstructure and the properties of metal alloys. Prof. Dr. Tomasz A. Tański

Guest Editor

Prof. Dr. Tomasz Tański

Department of Engineering Materials and Biomaterials, Faculty of Mechanical Engineering, Silesian University of Technology, 44-100 Gliwice, Poland

Deadline for manuscript submissions

closed (15 May 2021)



an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/22018

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

mdpi.com/journal/materials





an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 6.4 Indexed in PubMed





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.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)