

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

Prof. Dr. Tomasz Czujko

Department of Advanced Materials and Technologies, Faculty of Advanced Technologies and Chemistry, Military University of Technology, Gen. S. Kaliskiego 2, 00-908 Warsaw, Poland

Deadline for manuscript submissions

closed (5 March 2019)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/16150

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

[mdpi.com/journal/
materials](https://mdpi.com/journal/materials)





Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



[mdpi.com/journal/
materials](https://mdpi.com/journal/materials)



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

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

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)