



an Open Access Journal by MDPI

Superalloys—Currents Trends in Development of Their Microstructure and Properties

Guest Editor:

Prof. Dr. Jan Sieniawski

Department of Materials Science,
Faculty of Mechanical
Engineering and Euronautics,
Rzeszów University of
Technology, W. Pola 2 St., 35-959
Rzeszów, Poland

Deadline for manuscript
submissions:

closed (31 December 2021)

Message from the Guest Editor

Superalloys are metallic alloys (nickel-, cobalt- and iron-based) capable of being used at high temperatures, often in excess of 0.7 of their absolute melting temperature.

The scope of this forthcoming Special Issue will focus on recent innovative and pioneering works in the field of metallurgy and processing, structure and microstructure examination, and the development of the operational properties of superalloys.

I invite our colleagues to submit a manuscript to this Special Issue, which can be in the form of a full research paper, communication, or review.

Keywords

- superalloys
- directional solidification
- single-crystals
- microstructure characterization
- creep resistance



mdpi.com/si/16756

Special issue



an Open Access Journal by MDPI

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

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.

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

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)