Special Issue

Mechanical Properties and Microstructural Features of Alloy/Steel

Message from the Guest Editor

Energy saving and environmental protection are the themes of the automobile manufacturing industry and advanced manufacture industry. The body of cars or machines made of high-strength steel or light metal can effectively reduce not only the weight, but also fuel consumption. In this Special Issue, we welcome articles that focus on the latest achievements of mechanical property and microstructural tailoring of advanced light alloy and high strength alloy/steel. Light alloy is related to aluminum alloy, magnesium alloy, and titanium alloy. High-strength alloy or steel is related to multi-phase steel, quenched and partitioned steel, hot-stamped steel, and low-density steel. The research results provide a beneficial reference for the design, development, and application of advanced light alloy and high strength alloy/steel in the automobile manufacturing industry and advanced manufacturing industry.

Guest Editor

Prof. Dr. Yizhu He

School of Materials Science and Engineering, Anhui University of Technology, Maanshan 243099, China

Deadline for manuscript submissions

closed (10 August 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/114441

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

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

MDPI

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)