Light alloys and high-temperature alloys are widely used as key engineering materials in both civil and military industries due to their excellent comprehensive properties and performance. In order to meet the growing demand on the properties/performance of the materials, there is a perpetual need to explore novel light and high-temperature alloys. In this Special Issue of Materials, I would like to call for submission of papers on any new progress/development in the fields of light and high-temperature alloys. Both research and review articles are welcomed.

This Special Issue majorly covers all the theoretical and experimental investigations into different types of light alloys, including Al-, Mg-, and Ti-based, and high-temperature alloys, including Ni-, Co-, Fe-, and Nb-based. Related topics, like the protective coatings on high-temperature alloys, metal matrix composites, and so on, also fall within the scope of this Special Issue. Moreover, research on the new type of high-temperature alloys, i.e., high-entropy alloys, or multi-principal element alloys, are welcomed as well.

Prof. Dr. Lijun Zhang
Guest Editor
Editor-in-Chief

Prof. Dr. Maryam Tabrizian
James McGill Professor, Professor of Biomedical Engineering, Professor of Bioengineering, Professor of Experimental Surgery, Department of Biomedical Engineering, Faculty of Medicine/Faculty of Dentistry, Duff Medical Science Building, 3775 University Street, Montreal, QC H3A 2B4, Canada

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty comprehensive topics: biomaterials, energy materials, advanced composites, structure analysis and characterization, porous materials, manufacturing processes and systems, advanced nanomaterials, smart materials, thin films and interfaces, catalytic materials and carbon materials, materials chemistry, materials physics, optics and photonics, corrosion and materials degradation, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics, metals and alloys, general. The distinguished and dedicated editorial board and our strict peer-review process ensure the highest degree of scientific rigor and review of all published articles. 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), Ei Compendex, PubMed, PMC, CaPlus / SciFinder, Inspec, Astrophysics Data System, and many other databases.

Journal Rank: JCR - Q1 (Metallurgy & Metallurgical Engineering) / CiteScore - Q2 (Condensed Matter Physics)

Contact Us

Materials
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland
Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com
materials@mdpi.com
@Materials_Mdpi

mdpi.com/journal/materials