Special Issue

Light Metal Based Alloys: Fundamentals and Applications

Message from the Guest Editor

The Special Issue entitled “Light Metal-Based Alloys: Fundamentals and Applications” aims to present an up-to-date overview of recent advances in fundamental aspects and applications of light alloys. Topics concerning metal alloys based on aluminum, magnesium and titanium will be considered, as well as fundamentals and applications of beryllium alloys, which are becoming of interest to the aerospace and nuclear industry. Novel materials and processing methods, fabrication, joining and forming technologies, simulation and modelling, advances in corrosion and surface finishing will be also covered. It is my pleasure to invite you to contribute full papers, communications and reviews to this Special Issue. *Paolo Mengucci*

Keywords:

- Designing, simulation and modelling
- Casting and forming technologies
- Mechanical properties
- Corrosion
- Joining
- Nanoalloys and amorphous alloys
- Additive manufacturing
- Aerospace and transportation
- Energy systems
- Biomedical applications

Guest Editor

Prof. Dr. Paolo Mengucci

Depst. SIMAU, Università Politecnica delle Marche, Ancona, Italy

Deadline for manuscript submissions

closed (30 September 2019)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
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mdpi.com/si/14340

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

mdpi.com/journal/materials

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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

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