



materials



an Open Access Journal by MDPI

Advanced Liquid Metals for Energy Storage and Biomedical Applications

Guest Editors:

Dr. Lingfei Zhao

Institute for Superconducting & Electronic Materials, University of Wollongong, Wollongong, NSW 2500, Australia

Dr. Liyuan Zhang

School of Materials Science and Chemical Engineering, Ningbo University, Ningbo 315211, China

Dr. Xuyang Sun

School of Engineering Medicine, Beihang University (BUAA), Beijing 100191, China

Message from the Guest Editors

Liquid metals (including Ga, Ga-In, Ga-Sn, Ga-In-Sn, Na-K, etc.) are considered to be promising materials for high-performance rechargeable batteries and flexible devices, as well as other biomedical applications. Distinctive features of these liquid metals, including instant self-healing, excellent electric conductivity, and/or low toxicity, have resulted in exciting findings in a wide variety of research areas. Meanwhile, challenges including interface wettability, device stability, and/or biological biocompatibility still hinder the wide application of liquid metals. Therefore, developing a rational material design and an in-depth mechanism understanding of liquid metals is very important and highly desirable.

Deadline for manuscript submissions:

20 October 2024



mdpi.com/si/184434

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

Contact Us

Materials Editorial Office
MDPI, St. Alban-Anlage 66
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)