



Advanced Materials for Rechargeable Battery Applications

Guest Editors:

Dr. Doddahalli

Hanumantharayudu Nagaraju

Department of Chemistry, Reva
University, Yelahanka, Bengaluru,
India

Dr. Siddaramanna Ashoka

Department of Chemistry, School
of Applied Sciences, REVA
University, Bengaluru 560064,
India

Deadline for manuscript
submissions:

closed (10 October 2023)

Message from the Guest Editors

Dear Colleagues,

Renewable energy resources are intermittent in nature, and hence, energy produced must be stored to provide a continued amount of energy for load leveling applications.

This Special Issue focuses on rechargeable batteries and invites articles from researchers around the world. This Special Issue will comprise original articles, theoretical studies, as well as review articles in the field of advanced batteries. The topics include but are not limited to Li-ion batteries, Na-ion batteries, Zn–Mg batteries, polymer batteries, aluminum-ion batteries, metal–air batteries, theoretical studies, etc.

The performance of the batteries mainly depends on the nature of the materials and their preparation methodologies. This Special Issue invites articles on topics related to different rechargeable battery components, such as:

- Cathode materials;
- Anode materials;
- Electrolytes;
- Non-aqueous and aqueous batteries;
- Design and structure of the electrodes;
- Full cell design of rechargeable batteries;
- Theoretical studies of battery components and their design.





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)