

## Special Issue

# Advanced Materials for Rechargeable Battery Applications

### Message from the Guest Editors

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.

### Guest Editors

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### Deadline for manuscript submissions

closed (10 October 2023)



## Materials

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CiteScore 6.4  
Indexed in PubMed



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## 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.

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