

Special Issue

Advanced Materials for Solid-State Batteries: Chemistry and Applications

Message from the Guest Editor

The Special Issue “Advanced Materials for Solid-State Batteries: Chemistry and Applications” focuses on recent advancements in materials science that are driving innovations in solid-state battery technology. Solid-state batteries, with solid electrolytes, offer superior safety, energy density, and longevity compared to traditional liquid systems. This issue covers a wide range of topics, including novel solid electrolytes, electrode materials, interface engineering, and their impact on battery performance. We invite submissions on:

- Innovative materials for solid electrolytes and electrodes;
- Interface stability and conductivity improvements;
- Advanced fabrication techniques and battery architectures;
- Theoretical and computational studies on material behavior;
- Performance evaluations in real-world applications.

As of Materials, we invite you to submit a research article, review paper, or case report to this Special Issue.

Guest Editor

Dr. Yunling Wu

School of Energy Science and Engineering, Nanjing Tech University,
Nanjing 211816, China

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

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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.

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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