

Special Issue

Sodium-Ion Batteries: From Electrodes, Electrolytes to High-Performance Devices

Message from the Guest Editors

This Special Issue aims to capture the forefront of research in the rapidly advancing field of sodium-ion batteries. While the technology benefits from abundant sodium resources and potential cost advantages, achieving robust electrochemical performance requires overcoming hurdles in ion transport, structural stability, and interface compatibility. We seek submissions that deepen our understanding across the entire device: from the design and synthesis of high-performance cathodes and anodes, innovations in electrolyte systems (liquid and solid-state), and in-depth investigations into interfacial stability and degradation mechanisms. This collection seeks to provide a comprehensive platform for sharing insights that will accelerate progress towards commercially viable and high-performance sodium-ion battery technologies.

Guest Editors

Dr. Huangxu Li

Department of Applied Physics, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong 999077, China

Dr. Jingqiang Zheng

School of Materials Science and Engineering, Xiangtan University, Xiangtan 411105, China

Deadline for manuscript submissions

20 August 2026



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.0
Indexed in PubMed



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

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Message from the Editorial Board

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.

Editors-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

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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