

Special Issue

Recent Advances in Carbon, Metal Oxide, and Transitional Metal Dichalcogenides Based Anode Materials for Lithium/Sodium-Ion Batteries

Message from the Guest Editors

This Special Issue aims to provide a comprehensive overview of the latest advances in the anode materials for lithium/sodium-ion batteries. This issue will cover all the major aspects of battery research ranging from materials design to cell fabrication, challenges to solutions, and scientific understanding to practical applications. This Special Issue will focus on the following topics:

- Carbon, metal oxide, and transitional metal dichalcogenides based anodes
- Tailoring advanced high-entropy oxide anodes
- Hierarchical structures for anodes
- Pre-lithiation/sodiation strategy
- Examining the charge/discharge mechanism by Synchrotron techniques
- Advanced electrolytes and electrolyte additives
- Examining the stable electrolyte interphase chemistry for anodes
- Novel binders

We are looking forward to receiving interesting manuscripts addressing the limitation of current anodes, the development of novel electrode/electrolyte designs, and breakthroughs in the anode research. We welcome contributions from researchers and experts working in the field of lithium/sodium-ion batteries.

Guest Editors

Dr. Jagabandhu Patra

Hierarchical Green-Energy Materials (Hi-GEM) Research Centre,
National Cheng Kung University, Tainan, Taiwan

Dr. Manas Ranjan Panda

Department of Mechanical and Aerospace Engineering, Monash
University, Clayton, VIC 3800, Australia

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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