

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

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th 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 all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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