Special Issue

Advances in Carbon-Based Materials for Energy Storage

Message from the Guest Editors

Carbon-based materials have found wide applications in the field of batteries in the past few decades, and tremendous effort has been devoted to developing novel materials for anodes, cathodes, and electrolytes, the designing new cells, and improving electrochemical performance by forming hitherto unknown nanocomposites. The aim of this Special Issue is to present the state-of-the-art research progress in the field of carbon-based materials for energy storage. Topics of interest include, but are not limited to:

- carbon-based materials for secondary batteries;
- novel two-dimensional materials for energy storage applications;
- lithium/sodium/potassium-ion batteries;
- lithium or zinc oxygen/sulfur batteries;
- Ni-MH batteries;
- advanced materials for supercapacitors;
- hydrogen storage materials and carbon-based materials for Fuel cells;
- novel fabrication methods for carbon-based composites;
- global structure search of novel carbon-based materials for battery;
- structure-related functionality relations of energy storage materials;
- anode, cathode, electrolyte materials for solid state batteries.

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Deadline for manuscript submissions

closed (20 June 2023)

Batteries

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 6.6

mdpi.com/si/144751

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Message from the Editor-in-Chief

Take the opportunity to publish your original scientific work or a review paper concerning battery materials, battery technology or battery application within this new open access journal. Along with material science, the journal also addresses engineering and multidisciplinary research topics, such as cell and system design or storage system integration. Publishing proffers visibility for the benefit of other experts and facilitates discussion of the research results within the field. You are invited to publish your work, read published papers and to participate in topical discussions.

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