

Special Issue

Recent Process and Future Challenges in Electrochemical Energy Storage Electrode

Message from the Guest Editor

Energy storage materials and devices are urgently required in the market of electric vehicles and energy storage systems. This Special Issue reports significant novel findings in energy storage materials and devices related to theoretical simulations, electrode materials, electrolytes, separator and binder synthesis and fabrication, electrochemical characterization, electrochemical performance and technological applications. It is important and necessary to provide the latest updates in thermodynamic and kinetic mechanism studies so that the international community may understand, design and develop enhanced energy storage materials and devices. This Special Issue welcomes the submission of original research or review papers addressing topics including, but not limited to, the following:

- Novel energy storage materials, cathodes, anodes, electrolytes, separators and binders;
- Thermodynamics and dynamics simulation;
- Electrode design and optimization;
- Performance degradation studies;
- Energy storage mechanism analysis;
- Electrochemical characterization methods;
- Energy storage devices life and safety;
- Energy storage devices applications.

Guest Editor

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Deadline for manuscript submissions

closed (29 February 2024)



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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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