

Special Issue

Lithium-Ion Batteries and Beyond: Outlook on Present and Future

Message from the Guest Editors

Due to the advantage of high energy-density, lithium-based energy storage systems power our daily lives from smart phones to other consumer electronics. They also enable electrification of the transportation systems and provide stationary storage of energy in the electrical grid. This Special Issue highlights key advances and urgent development of lithium-based batteries in the battery research community worldwide. We call for outstanding manuscripts, including reviews and original research articles, to be submitted to the open access journal *Batteries* (ISSN 2313-0105). The major scope of this issue will cover research areas in high-energy, long cycle life, fast charging and safe lithium-ion batteries and beyond lithium-ion battery technology. Research topics will provide trends in 1) advanced cathode materials with high energy and long cycle life; 2) next-generation anode materials; 3) electrolytes and additives; 4) engineering and scale-up of battery components and cells; 5) multi-scale range characterization of battery bulk materials and interfaces; 6) critical materials recycling; and 7) beyond lithium-ion battery technologies.

Guest Editors

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Deadline for manuscript submissions

closed (20 July 2023)



Batteries

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Impact Factor 4.8
CiteScore 6.6



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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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