

## Special Issue

# Safer and Higher-Energy-Density Lithium Batteries

### Message from the Guest Editors

Increasing the safety and energy density of lithium batteries is extremely crucial for the success of EVs, grid-scale energy storage, and the next generation of power electronics. This, however, can only be achieved through a holistic approach to improve the performance of the battery's three main components (cathode, anode, and electrolyte) simultaneously. In this Special Issue, the focus will be on energy density and safety as two of the many important metrics required to evaluate lithium battery performance for success. The issue will cover existing Li-ion battery research and innovation and the drive to improve the capacity of the two electrodes and potential of the cathode while maintaining the potential of the anode low and enabling safer, highly performing electrolytes. Also of interest are the latest research and innovation efforts to enable high-energy-density lithium metals in liquid-state and solid-state electrolytes in a safe manner. Finally, the issue will cover applications of artificial intelligence and machine learning in accelerating the discovery and design of new battery materials, cells, and systems...

### Guest Editors

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### Deadline for manuscript submissions

closed (31 August 2022)



## Batteries

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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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