



High Energy Lithium-Ion Batteries

Guest Editor:

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Deadline for manuscript
submissions:

closed (30 November 2023)

Message from the Guest Editor

Dear Colleagues,

Since the invention of Li-ion batteries (LIBs) in the 1990s, the past decades have witnessed the booming of LIB-supported applications, typical examples being portable electronics and electric vehicles. Nevertheless, the rapid upgrading of current society, especially its intellectualization, is driving an increasing demand for high-energy-density batteries technologies. Moreover, the need for high-energy LIBs is rather urgent for electric vehicles to increase their endurance to overcome “range anxiety”. Therefore, we are calling for papers on this Special Issue to promote current research on this topic, which covers the main components of LIBs (cathode, anode, electrolyte) and their characterizations and fundamental understandings in the purpose of high-energy LIBs.

Potential topics include but are not limited to:

1. High-capacity cathode materials;
2. Anionic redox;
3. High-capacity anode materials;
4. Wide-voltage-window electrolyte;
5. Solid electrolyte interface engineering;
6. Full cell design;
7. Advanced characterization techniques;
8. Density-functional-theory method on batteries.





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Message from the Editor-in-Chief

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