Special Issue

Next-Generation Rechargeable Lithium-Ion Battery

Message from the Guest Editor

Among rechargeable batteries, lithium-ion batteries (LIBs) have garnered intensive research interest due to their unmatched combination of high-energy and power density, making them a technology of choice for mobile electronics and electric vehicles (EVs). Despite several improvements in LIB that have been made, with the rapid pace of modern electrification and the need to create a carbon-neutral society, there is an unprecedented need to increase battery performances. Furthermore, as LIBs begin occupying more and more modern technologies, their safety in the engaged devices will play a very vital role in their future adoption. In addition, as EVs would gradually replace fossil fuel-based vehicles, production of LIB precursors tied with their geographical abundance is another critical aspect to examine. Therefore, this Special Issue is dedicated to bringing new insights into designing novel cathodes/electrodes to improve electrochemical performances.

Guest Editor

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