Special Issue

Energy Storage Materials: Recent Process and Challenges

Message from the Guest Editors

With the fast depletion of fossil fuels and the growing climate change, high demand is in need to make efficient use of energy and to substitute fossil fuels with renewable and clean energy sources. As an intermediate step to the sustainable and versatile use of energy, energy storage systems have received growing global concern and research interest. Rechargeable batteries are widely used in portable electronic devices, electric vehicles, and large-scale grids due to their high energy density, while supercapacitors can be used either independently or in combination with batteries because of their high modularity and scalability. However, their limited energy density, poor safety, and high cost has greatly hindered their further applications. Thus, new rechargeable batteries and supercapacitors based on advanced materials and electrolytes with more intriguing features need to be further investigated.

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Deadline for manuscript submissions

closed (25 May 2023)



Batteries

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Impact Factor 4.8 CiteScore 6.6



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