

Special Issue

Rechargeable Multivalent Metal-Ion Batteries

Message from the Guest Editors

Growing demands on energy storage devices have inspired tremendous research efforts centered around rechargeable multivalent metal-ion batteries (MMIBs), due to the high abundance of desired elements, such as zinc, magnesium, calcium, and aluminum in the crust, as well as the rejection of storage-performance dilemma-restricting lithium-ion batteries. However, the complexity of MMIBs has led to rampant confusions, technical challenges, and uncertainties at present, which require more innovative research in terms of materials, electrolytes, cell design, various-scale tests, battery management systems, safety, suitability, and recycling. Therefore, this Special Issue will explore the current challenges and future directions to build better MMIBs.

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