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Materials Research Solid State Physics and Engineering

Lithium-ion Batteries

Materials and Applications

Eds. Inamuddin, Rajender Boddula, Mohammad Faraz Ahmer and Abdullah M. Asiri

Monograph / PDF eBook DRM Free

The book reviews the fundamental concepts and recent advances in the areas of anodes, cathodes, electrolytes, separators, binders, fabrication of device assemblies and electrochemical performance.

Keyword: Lithium-ion Batteries (LIBs), Fabrication of TiO2 for LIBs, Nanomaterials, Conducting Polymers, 2D Transition Metal Dichalcogenides, Metal Sulphides, Magnetic Nanomaterials, Silicon Materials, Anodes, Cathodes, Electrolytes, Separators, Binders, Fabrication of Device Assemblies, and Electrochemical Performance of LIBs

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Summary:

There is a great need to develop lithium-ion batteries with high power density. Much research is, therefore, devoted to designing high-performance electrode materials and electrolytes. The book reviews the fundamental concepts and recent advances in the areas of anodes, cathodes, electrolytes, separators, binders, fabrication of device assemblies and electrochemical performance.



Full color Print Book Information



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