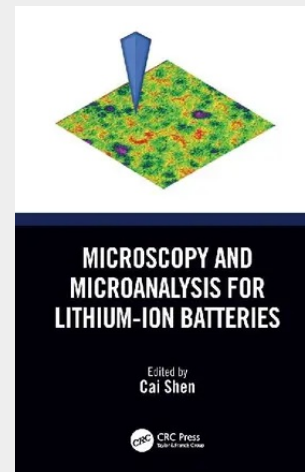


Microscopy and Microanalysis for Lithium-Ion Batteries

The past three decades have witnessed the great success of lithium-ion batteries, especially in the areas of 3C products, electrical vehicles, and smart grid applications. However, further optimization of the energy/power density, coulombic efficiency, cycle life, charge speed, and environmental adaptability are still needed. To address these issues, a thorough understanding of the reaction inside a battery or dynamic evolution of each component is required. Microscopy and Microanalysis for Lithium-Ion Batteries discusses advanced analytical techniques that offer the capability of resolving the structure and chemistry at an atomic resolution to further drive lithium-ion battery research and development. - Provides comprehensive techniques that probe the fundamentals of Li-ion batteries - Covers the basic principles of the techniques involved as well as its application in battery research - Describes details of experimental setups and procedure for successful experiments This reference is aimed at researchers, engineers, and scientists studying lithium-ion batteries including chemical, materials, and electrical engineers, as well as chemists and physicists.

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