

Lithium-ion battery is a kind of secondary battery (rechargeable battery), which mainly relies on the movement of lithium ions (Li^+) between the positive and negative electrodes. During the charging and discharging process, Li^+ is embedded and unembedded back and forth between the two electrodes. With the rapid popularity of electronic devices, the research on such ...

He is investigating cathode and anode materials for supercapacitors, lithium-ion, lithium-metal and lithium-sulfur batteries. Dr. Julien has served The Electrochemical Society as coorganiser of technical symposia and he is editorial board member of Ionics, Material Science Engineering B, Green Chemical Technology, academic editor of Nanomaterials, Materials and Inorganics and ...

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The Handbook of Lithium-Ion Battery Pack Design: Chemistry, Components, Types, and Terminology, Second Edition, provides a clear and concise explanation of EV and Li-ion batteries for readers that are new to the field. The second edition expands and updates all topics covered in the original book, adding more details to all existing chapters, and including ...

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Synopsis of the Lithium-Ion Battery Markets / Ralph J. Brodd -- 2. A Review of Positive Electrode Materials for Lithium-Ion Batteries / Masaki Yoshio and Hideyuki Noguchi -- 3.

"Handbook of Batteries" covers the field from the tiniest batteries yet devised for life-critical applications to the large batteries required for electric and hybrid electric vehicles. Edited by battery experts David Linden, ...

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