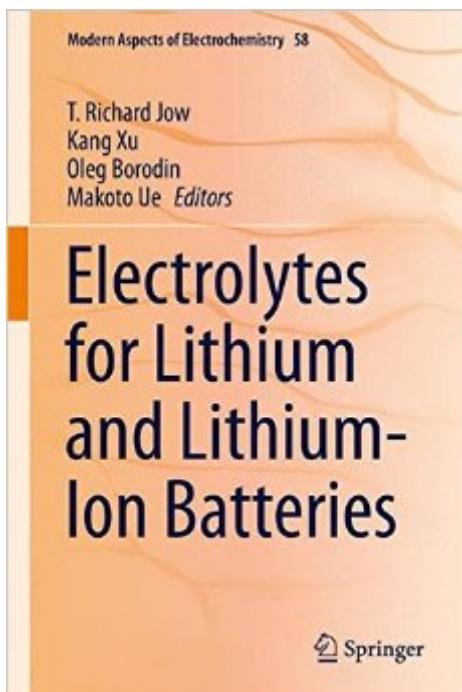


The book was found

# Electrolytes For Lithium And Lithium-Ion Batteries (Modern Aspects Of Electrochemistry)



## Synopsis

Electrolytes for Lithium and Lithium-ion Batteries provides a comprehensive overview of the scientific understanding and technological development of electrolyte materials in the last several years. This book covers key electrolytes such as LiPF<sub>6</sub> salt in mixed-carbonate solvents with additives for the state-of-the-art Li-ion batteries as well as new electrolyte materials developed recently that lay the foundation for future advances. This book also reviews the characterization of electrolyte materials for their transport properties, structures, phase relationships, stabilities, and impurities. The book discusses in-depth the electrode-electrolyte interactions and interphasial chemistries that are key for the successful use of the electrolyte in practical devices. The Quantum Mechanical and Molecular Dynamical calculations that has proved to be so powerful in understanding and predinating behavior and properties of materials is also reviewed in this book. Electrolytes for Lithium and Lithium-ion Batteries is ideal for electrochemists, engineers, researchers interested in energy science and technology, material scientists, and physicists working on energy.

## Book Information

Series: Modern Aspects of Electrochemistry (Book 58)

Hardcover: 476 pages

Publisher: Springer; 2014 edition (May 7, 2014)

Language: English

ISBN-10: 1493903012

ISBN-13: 978-1493903016

Product Dimensions: 6 x 1.3 x 9.2 inches

Shipping Weight: 2.4 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,626,686 in Books (See Top 100 in Books) #57 in Books > Science & Math > Chemistry > Physical & Theoretical > Electrochemistry #589 in Books > Science & Math > Chemistry > Industrial & Technical #2410 in Books > Engineering & Transportation > Engineering > Materials & Material Science

[Download to continue reading...](#)

Electrolytes for Lithium and Lithium-Ion Batteries (Modern Aspects of Electrochemistry) Lithium-Ion Batteries Hazard and Use Assessment (SpringerBriefs in Fire) Lithium-Ion Batteries: Science and Technologies Fluids and Electrolytes: NCLEX Mastery - The EASY Guide to Understand Fluids and Electrolytes! Basic + Advanced concepts made incredibly easy!! Lithium Batteries: Science and

Technology Nanoscale Technology for Advanced Lithium Batteries (Nanostructure Science and Technology) Advanced Batteries: Materials Science Aspects Practical Aspects of Interview and Interrogation, Second Edition (Practical Aspects of Criminal and Forensic Investigations) Modern Batteries: An Introduction to Electrochemical Power Sources, 2nd Edition Fluid and Electrolytes: 24 Hours or Less to Absolutely Crush the NCLEX Exam! (Nursing Review Questions and RN Content Guide, Registered Nurse, Practitioner, ... Exam Prep, Medical LPN Textbooks Book 3) Fluids and Electrolytes, 3e Acid-Base, Fluids, and Electrolytes Made Ridiculously Simple (MedMaster Series) Fluids, Electrolytes and Acid-Base Balance: a Guide for Nurses + Practice Questions, Case Studies, Charts Fluids & Electrolytes Made Incredibly Easy! (Incredibly Easy! Series®) Modern Electrochemistry 1: Ionics, 2nd Edition Modern Electrochemistry: An Introduction to an Interdisciplinary Area, Vol. 2 Modern Electrochemistry 2A: Fundamentals of Electrodics Ghost Wars: The Secret History of the CIA, Afghanistan, and bin Laden, from the Soviet Invasion to September 10, 2001 The Ion Effect : How Air Electricity Rules Your Life and Health The Physics and Technology of Ion Sources

[Dmca](#)