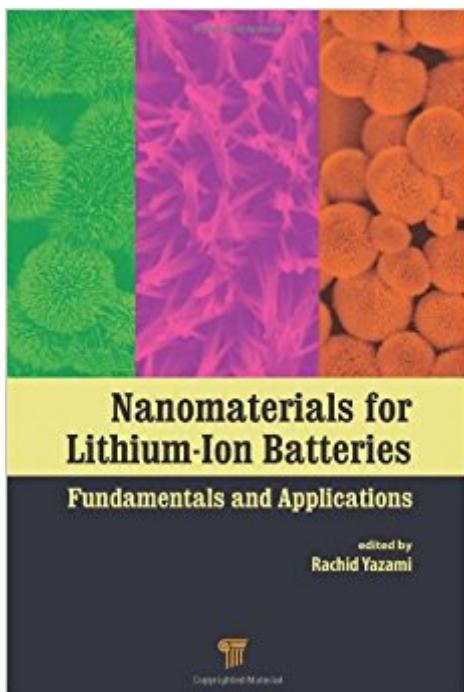


The book was found

# Nanomaterials For Lithium-Ion Batteries: Fundamentals And Applications



## Synopsis

This book covers the most recent advances in the science and technology of nanostructured materials for lithium-ion application. With contributions from renowned scientists and technologists, the chapters discuss state-of-the-art research on nanostructured anode and cathode materials, some already used in commercial batteries and others still in development. They include nanostructured anode materials based on Si, Ge, Sn, and other metals and metal oxides together with cathode materials of olivine, the hexagonal and spinel crystal structures.

## Book Information

Hardcover: 462 pages

Publisher: Pan Stanford; 1 edition (October 8, 2013)

Language: English

ISBN-10: 9814316407

ISBN-13: 978-9814316408

Product Dimensions: 6 x 1.2 x 9 inches

Shipping Weight: 1.7 pounds

Average Customer Review: Be the first to review this item

Best Sellers Rank: #864,302 in Books (See Top 100 in Books) #32 in Books > Science & Math > Chemistry > Physical & Theoretical > Electrochemistry #36 in Books > Science & Math > Chemistry > Electrochemistry #293 in Books > Science & Math > Chemistry > Physical & Theoretical > Physical Chemistry

## Customer Reviews

"The book has good technical depth, yet is still very readable. It contains many photos, illustrations, tables, and graphs of data that provide the reader with the insight needed to understand the phenomena being described and the processes occurring in lithium battery chemistry. Researchers as well as students studying lithium-ion batteries will find this book well worth reading. It provides insight into many different avenues for potentially improving lithium-ion battery performance. The reader will learn about these new ideas and gain a better understanding of what currently limits battery performance."--IEEE Electrical Insulation Magazine, September/October - Vol. 30, No.5

Professor Rachid Yazami is a Research Director at the Centre National de la Recherche Scientifique (CNRS). His current research covers thermodynamics studies on lithium ion batteries, lithium air batteries with a liquid anode, and fluoride ion batteries.

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

Nanomaterials for Lithium-Ion Batteries: Fundamentals and Applications  
Electrolytes for Lithium and  
Lithium-Ion Batteries (Modern Aspects of Electrochemistry)  
Lithium Metal Anodes and  
Rechargeable Lithium Metal Batteries (Springer Series in Materials Science)  
Lithium-Ion Batteries: Science and Technologies  
Off Grid Solar: A handbook for Photovoltaics with Lead-Acid or  
Lithium-Ion batteries  
Advances in Lithium-Ion Batteries  
LITHIUM-ION BATTERIES:  
SOLID-ELECTROLYTE INTERPHASE  
Lithium Process Chemistry: Resources, Extraction,  
Batteries, and Recycling  
Lithium Batteries: Science and Technology  
Nanoscale Technology for Advanced Lithium Batteries (Nanostructure Science and Technology)  
DIY Lithium Batteries: How to Build Your Own Battery Packs  
A Systems Approach to Lithium-Ion Battery Management (Power Engineering)  
Nanostructures and Nanomaterials: Synthesis, Properties, and Applications (2nd Edition) (World Scientific Series in Nanoscience and Nanotechnology)  
Nanomaterials: An Introduction to Synthesis, Properties and Applications  
Nanostructures & Nanomaterials: Synthesis, Properties & Applications  
Principles and Applications of Ion Scattering Spectrometry: Surface Chemical and Structural Analysis (Wiley Series on Mass Spectrometry)  
Focused Ion Beam Systems: Basics and Applications  
Scanning Transmission Electron Microscopy of Nanomaterials : Basics of Imaging and Analysis  
Nanotechnology Risk Encyclopedia: Medical, Environmental, Ethical, Legal, and Societal Implications of Nanomaterials  
Scanning Transmission Electron Microscopy of Nanomaterials: Basics of Imaging Analysis

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)