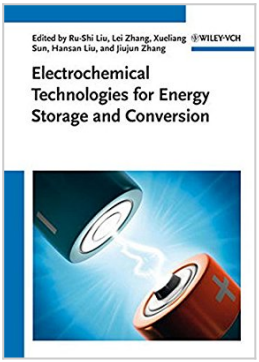

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In this handbook and ready reference, editors and authors from academia and industry share their in-depth knowledge of known and novel materials, devices and technologies with the reader. The result is a comprehensive overview of electrochemical energy and conversion methods, including batteries, fuel cells, supercapacitors, hydrogen generation and storage as well as solar energy conversion. Each chapter addresses electrochemical processes, materials, components, degradation mechanisms, device assembly and manufacturing, while also discussing the challenges and perspectives for each energy storage device in question. In addition, two introductory chapters acquaint readers with the fundamentals of energy storage and conversion, and with the general engineering aspects of electrochemical devices.

With its uniformly structured, self-contained chapters, this is ideal reading for entrants to the field as well as experienced researchers.

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Electrochemical Technologies for Energy Storage and Conversion From Wiley-VCH Bibliography

- Sales Rank: #3560902 in Books
- Published on: 2011-12-12
- Original language: English
- Number of items: 1
- Dimensions: 9.70" h x 1.90" w x 7.00" l, 4.01 pounds
- Binding: Hardcover
- 838 pages

Editorial Review

Review
"In this handbook gives a comprehensive overview of electrochemical energy and conversion methods." (Energy Database, 2012)

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