

1. Record Nr.	UNINA9910827538703321
Titolo	Carbons for electrochemical energy storage and conversion systems // edited by Francois Beguin, Elzbieta Frackowiak
Pubbl/distr/stampa	Boca Raton, : Taylor & Francis, 2009
ISBN	9786612343933 9781040067369 1040067360 9781523134199 1523134194 9780429141256 0429141254 9781282343931 1282343939 9781420055405 1420055402
Edizione	[1st ed.]
Descrizione fisica	1 online resource (532 p.)
Collana	Advanced materials and technologies series
Altri autori (Persone)	BeguinFrancois FrackowiakElzbieta
Disciplina	621.31242
Soggetti	Electric batteries - Materials Power electronics - Materials Energy storage - Materials Carbon compounds - Electric properties
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front cover; Contents; Preface; Editors; Contributors; Chapter 1. Principles of Electrochemistry and Electrochemical Methods; Chapter 2. Structure and Texture of Carbon Materials; Chapter 3. Carbide-Derived Carbons and Templated Carbons; Chapter 4. Porous Texture of Carbons; Chapter 5. Surface Chemical and Electrochemical Properties of Carbons; Chapter 6. Electronic Structures of Graphite and Related Materials; Chapter 7. Carbon Materials in Lithium-Ion Batteries; Chapter 8. Electrical Double-Layer Capacitors and Pseudocapacitors

Chapter 9. Fuel Cell Systems: Which Technological Breakthrough for Industrial Development? Chapter 10. Carbon in Batteries and Energy Conversion Devices; Chapter 11. Industrial Production of Double-Layer Capacitors; Chapter 12. Advanced Battery Applications of Carbons; Index; Back cover

Sommario/riassunto

As carbons are widely used in energy storage and conversion systems, there is a rapidly growing need for an updated book that describes their physical, chemical, and electrochemical properties. Edited by those responsible for initiating the most progressive conference on Carbon for Energy Storage and Environment Protection (CESEP), this book undoubtedly fills this need. Written in collaboration with prominent scientists in carbon science and its energy-related applications, Carbons for Electrochemical Energy Storage and Conversion Systems provides the most com
