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Titolo	Chemically Deposited Metal Chalcogenide-based Carbon Composites for Versatile Applications // edited by Fabian I. Ezema, Chandrakant D. Lokhande, Abhishek C. Lokhande
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Soggetti	Metals Materials Carbon Chemistry Composite materials Surface chemistry Metals and Alloys Carbon Materials Composites Surface Chemistry
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1. 0D, 1D, 2D and 3D structured chalcogenides for supercapacitor applications -- Chapter 2. 1D, 2D, and 3D structured metal chalcogenides for supercapacitor -- Chapter 3. Chemically deposited Iron Chalcogenides based Carbon composites for Supercapacitor applications -- Chapter 4. Nanostructure design for supercapacitor application -- Chapter 5. Emerging materials for Li-ion capacitor -- Chapter 6. Advances in Fabricating Mn3O4 and its Carbon Composite for Electrochemical Energy -- Chapter 7. Porous Hybrid Electrode Materials for High Energy Density Li-ion and Li-S Batteries --

Chapter 8. Electrode materials for high energy density Li-ion --
Chapter 9. Emerging novel chalcogenide based materials for electro
water-splitting -- Chapter 10. Chemical Processing of Cu_2SnS_3
nanoparticles for printable solar cells -- Chapter 11. Rational
engineering of photocathodes for hydrogen production
Heterostructure, dye sensitized, perovskite and tandem cells --
Chapter 12. One-Step Solid-State Mechanochemical Synthesis of Metal
Chalcogenides as a Perspective Alternative to Traditional Preparation
Routes -- Chapter 13. Fundamentals of First-Principles Studies --
Chapter 14. Surface Rare Earth Elements based Non-Enzymatic Glucose
Sensor -- Chapter 15. Surface functionalized Iron Oxide (Fe_3O_4)
Nanoparticles for Biomedical Applications.

Sommario/riassunto

This book satisfies the interest and curiosity of beginners in thin film electrode preparations, characterizations, and device making, while providing insight into the area for experts. The considerable literature on 'metal chalcogenides based carbon composites and their versatile applications' reflect its importance for research and demonstrate how it's now reached a level where the timely review is necessary to understand the current progress and recent trends and future opportunities. In the book, the authors examine recent advances in the state-of-the-art fabrication techniques of metal sulfide based carbon composites along with their working mechanisms, associated issues/solutions, and possible future are discussed. In addition, detailed insight into the properties and various applications including principles, design, fabrication, and engineering aspects are further discussed. Provides a detailed and simplified fabrication routes of thin film electrode preparation with informative images; Discusses structural, optical, morphological, electrical, and other properties of metal chalcogenide carbon composites; Illustrates state of the art applications of the metal chalcogenides based carbon composites.

2. Record Nr.	UNINA9910145980603321
Titolo	Physics and chemistry of the earth . Part C Solar-terrestrial and planetary science
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Soggetti	Astrophysics Cosmochemistry Geophysics Geochemistry Astrophysique - Periodiques Cosmochimie - Periodiques Geophysique - Periodiques Geochimie - Periodiques Astrophysique Cosmochimie Geophysique Geochimie Periodicals.
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