1. Record Nr. UNINA9910686775203321

Titolo	Chemically Deposited Metal Chalcogenide-based Carbon Composites for Versatile Applications / / edited by Fabian I. Ezema, Chandrakant D. Lokhande, Abhishek C. Lokhande
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	9783031234019 9783031234002
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (435 pages)
Disciplina	620.193 546.3
Soggetti	Metals Materials Carbon Chemistry Composite materials Surface chemistry Metals and Alloys Carbon Materials Composites Surface Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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 Cu2SnS3 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 (Fe3O4) 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. UNINA9910149597203321

Titolo	Albumin in Medicine : Pathological and Clinical Applications / / edited by Masaki Otagiri, Victor Tuan Giam Chuang
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2016
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (X, 277 p. 50 illus., 37 illus. in color.)
Disciplina	615
Soggetti	Pharmacology Pharmaceutical chemistry Pharmacology/Toxicology Medicinal Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	This book presents a comprehensive overview of medical and pharmaceutical applications of human serum albumin (HSA), with updates on structural aspects of albumin from the perspectives of X-ray crystallography and NMR, endogenous and exogenous ligand binding of albumin in various pathological conditions, and genetic variants and their phenotypes. Rapid progress and development of its applications have resulted in outstanding results for which albumin has clearly been proven to be a robust biomaterial. Contributions from leading international experts in this field show how HSA is applied to diagnosis, therapy, drugs, and treatment, with a comprehensive introduction of HSA. This volume will appeal to scientists in pharmaceutical and medical research including pharmaceutical chemists, pharmacokineticists, toxicologists, and biochemists not only in academia but also in industry. Readers can effectively acquire the most recent knowledge of applications of HSA and its impact on human health in a single volume.

3. Record Nr. UNINA9910145980603321

Titolo	Physics and chemistry of the earth . Part C Solar-terrestrial and planetary science
Pubbl/distr/stampa	[Oxford, UK], : Pergamon, 1999-©2001
ISSN	1873-4685
Soggetti	Astrophysics Cosmochemistry Geophysics Geochemistry Astrophysique - Periodiques Cosmochimie - Periodiques Geophysique - Periodiques Geochimie - Periodiques Astrophysique Cosmochimie Geophysique Geochimie Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Title from journal title screen.