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Autore	Verma Sanjeev
Titolo	Multidimensional Nanomaterials for Supercapacitors
Pubbl/distr/stampa	Sharjah : , : Bentham Science Publishers, , 2024 ©2024
ISBN	9789815223408 9815223402
Edizione	[1st ed.]
Descrizione fisica	1 online resource (364 pages)
Altri autori (Persone)	VermaShivani KumarSaurabh
Disciplina	621.315
Soggetti	Nanostructured materials Energy storage
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Cover -- Title -- Copyright -- End User License Agreement -- Contents -- Preface -- List of Contributors -- Introduction of Next-Generation Materials -- Neeraj Kumar1,3, Shailendra Kumar Dwivedi2,4,*, Om Prakash5 and Shivani Verma6 -- INTRODUCTION -- Fundamental Theory of Supercapacitor -- Classifications of Supercapacitor -- Charge Storage Mechanism on Supercapacitors -- Classifications and Types of Nanomaterials -- Classification of Nanomaterials Based on Origin -- Classification Based on Dimensionality -- Classification Based on Material Used -- Multifunctional Future Materials, Their Properties, and Applications -- Carbon Based Materials -- Self-healing Polymers -- Metal-organic Frameworks (MOFs) -- Mxenes -- Composite Materials -- Nano-Inks and Quantum Dots -- Metamaterials -- SYNTHESIS TECHNIQUES -- FUTURE SCOPE OF NANOMATERIALS -- CONCLUSION -- REFERENCES -- Supercapacitor Basics (EDLCs, Pseudo, and Hybrid)

Sommario/riassunto

Multidimensional Nanomaterials for Supercapacitors: Next Generation Energy Storage explores the cutting-edge advancements in multidimensional nanomaterials for supercapacitor applications, addressing key techniques, challenges, and future prospects in the field. The book offers a comprehensive overview of the fundamentals of supercapacitors, including electrode materials, electrolytes, charge storage mechanisms, and performance metrics. Key Features Comprehensive Coverage: 15 referenced chapters cover a wide range of topics, including graphene derivatives, quantum dots, MOFs, MXenes, and fiber-shaped supercapacitors, providing a holistic view of the field. Cutting-Edge Techniques: Covers the latest advancements in multidimensional nanomaterials for supercapacitors, providing insights into their synthesis, properties, and applications. Future Applications: Chapters explore the potential future applications of nanomaterials in energy storage devices, offering valuable insights for researchers and practitioners. Real-World Case Studies: Practical examples and case studies illustrate the application of nanomaterials in supercapacitors, enhancing understanding and applicability. Challenges and Opportunities: Highlights the challenges and limitations associated with nanomaterial-based supercapacitors, offering information into overcoming barriers and expanding possibilities for future research. Readership This book is essential reading for chemists, electrochemists, chemical and electrical engineers, materials scientists, research scholars, and students interested in advancing their knowledge of energy storage technologies and multidimensional nanomaterials.

2. Record Nr. UNINA9911020112803321

Autore	Day Adrian
Titolo	Investing in resources [[electronic resource]] : how to profit from the outsized potential and avoid the risks / / Adrian Day
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Edizione	[1st ed.]
Descrizione fisica	1 online resource (354 p.)
Disciplina	332.6722
Soggetti	Investments Saving and investment Speculation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	pt. 1. Comnmodities : why they're going up -- pt. 2. Gold : in good and bad times -- pt. 3. Investing in resources -- pt. 4. Top sectors.
Sommario/riassunto	How to analyze and understand investment opportunities in the resources market Investing in resource markets is quite different from other sectors-extreme cyclicality; very long cycles; huge corrections; continual mergers and acquisitions; and, huge capital needs. Written by industry pioneer Adrian Day, Investing in Resources: How to Profit from the Outsized Potential and Avoid the Outsized Risks details the factors that affect investing in resource markets, and how, if an investor understands those factors, the resource market can be a great place to realize very strong gains.