1. Record Nr. UNINA9910647205303321

Titolo	Recent advances in multifunctional perovskite materials / / edited by Poorva Sharma, Ashwini Kumar
Pubbl/distr/stampa	London : , : IntechOpen, , [2022] ©2022
Descrizione fisica	1 online resource (362 pages) : illustrations
Disciplina	668.42
Soggetti	Synthetic products
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface -- Section 1 Perovskite Materials and Characterization -- Chapter 1 Perovskite Structured Materials: Synthesis, Structure, Physical Properties and Applications by Pankaj P. Khirade and Anil V. Raut -- Chapter 2 Study of the Critical Behavior in La0.67Ca0.18Sr0.15Mn0.98Ni0.02O3 Manganite Oxide by Kawther Laajimi, Mohamed Hichem Gazzah and Jemai Dhahri -- Chapter 3 Low-Doped Regime Experiments in LaMnO3 Perovskites by Simultaneous Substitution on Both La and Mn Sites by Aminta Mendoza and Octavio Guzman -- Chapter 4 Optimal Conditions for Preparation of Perovskite Materials for Optoelectronic Devices by Akin Olaleru, Joseph Kirui, Olasoji Adekoya and Eric Maluta -- Chapter 5 Role of Surface Defects and Optical Band-gap Energy on Photocatalytic Activities of Titanate-based Perovskite Nanomaterial by Izunna Stanislaus Okeke, Priscilla Yahemba Aondona, Amoge Chidinma Ogu, Eugene Echeweozo and Fabian Ifeanyichukwu Ezema -- Chapter 6 Thermoelectric Nanostructured Perovskite Materials by Megha Unikoth, George Varghese, Karakat Shijina and Hind Neelamkodan -- Section 2 Perovskites in Solar Cells -- Chapter 7 Recent Development of Lead-Free Perovskite Solar Cells by Anshebo Getachew Alemu and Teketel Alemu -- Chapter 8 Thin Film Solution Processable Perovskite Solar Cell by Mayur Jagdishbhai Patel, Himangshu Baishya, Ritesh Kant Gupta, Rabindranath Garai and Parameswar Krishnan Iyer -- Chapter 9 Solar Solutions for the Future by David M. Mulati and Timonah Soita --

Chapter 10 Organic/Inorganic Halide Perovskites for Mechanical Energy Harvesting Applications by Venkatraju Jella, Swathi Ippili, Hyun You Kim, Hyun-Suk Kim, Chunjoong Kim, Tae-Youl Yang and Soon-Gil Yoon -- Chapter 11 Encapsulation against Extrinsic Degradation Factors and Stability Testing of Perovskite Solar Cells by Edwin Ramirez, Rafael Betancur, Juan F. Montoya, Esteban Velilla, Daniel Ramirez and Franklin Jaramillo -- Chapter 12 Lead-Free Perovskite and Improved Processes and Techniques for Creating Future Photovoltaic Cell to Aid Green Mobility by Rira Kang, Tae-ho Jeong and Byunghong Lee Section 3 Multifunctional Materials -- Chapter 13 Tunable Multifuctionality in Heusler Alloys by Extreme Conditions by Devarajan Uthiran and Arumugam Sonachalam -- Chapter 14 Metal Halide Hybrid Perovskites by Fency Sunny, Linda Maria Varghese, Nandakumar Kalarikkal and Kurukkal Balakrishnan Subila -- Chapter 15 The Mystery of Dimensional Effects in Ferroelectricity by Rolly Verma and Sanjeeb Kumar Rout -- Chapter 16 Perovskites in Next Generation Memory Devices by Gregory Thien Soon How, Mohd Arif Mohd Sarjidan, Boon Tong Goh, Boon Kar Yap and Eyas Mahmoud.

Sommario/riassunto

This book summarizes current advances in the field of multifunctional perovskite materials, including information on their synthesis, characterization, and properties as well as their use in the fabrication of devices and applications. Chapters address such topics as the physiochemical properties of various perovskite materials, advances in perovskites for solar cells, and multifunctional materials and their numerous applications.

2. Record Nr. UNINA9910135020703321

Autore	Pfaff Bernhard
Titolo	Financial risk modelling and portfolio optimization with R / / Bernhard Pfaff
Pubbl/distr/stampa	Chichester, [England] : , : Wiley, , 2016 ©2016
ISBN	1-119-11967-7 1-119-11968-5 1-119-11969-3
Edizione	[Second edition.]
Descrizione fisica	1 online resource (497 p.)
Collana	THEi Wiley ebooks
Disciplina	332.0285/5133
Soggetti	Financial risk - Mathematical models Portfolio management R (Computer program language)
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 at the end of each chapters and index.
Nota di contenuto	Title Page; Copyright; Table of Contents; Preface to the Second Edition; Preface; Abbreviations; About the Companion Website; Part I: Motivation; Chapter 1: Introduction; Reference; Chapter 2: A brief course in R; 2.1 Origin and development; 2.2 Getting help; 2.3 Working with R; 2.4 Classes, methods, and functions; 2.5 The accompanying package FRAPO; References; Chapter 3: Financial market data; 3.1 Stylized facts of financial market returns; 3.2 Implications for risk models; References; Chapter 4: Measuring risks; 4.1 Introduction; 4.2 Synopsis of risk measures; 4.3 Portfolio risk concepts ReferencesChapter 5: Modern portfolio theory; 5.1 Introduction; 5.2 Markowitz portfolios; 5.3 Empirical mean-variance portfolios; References; Part II: Risk modelling; Chapter 6: Suitable distributions for returns; 6.1 Preliminaries; 6.2 The generalized hyperbolic distribution; 6.3 The generalized lambda distribution; 6.4 Synopsis of R packages for GHD; 6.5 Synopsis of R packages for GLD; 6.6 Applications of the GHD to risk modelling; 6.7 Applications of the GLD to risk modelling and data analysis; References; Chapter 7: Extreme value theory; 7.1

Preliminaries
7.2 Extreme value methods and models7.3 Synopsis of R packages; 7.4 Empirical applications of EVT; References; Chapter 8: Modelling volatility; 8.1 Preliminaries; 8.2 The class of ARCH models; 8.3 Synopsis of R packages; 8.4 Empirical application of volatility models; References; Chapter 9: Modelling dependence; 9.1 Overview; 9.2 Correlation, dependence, and distributions; 9.3 Copulae; 9.4 Synopsis of R packages; 9.5 Empirical applications of copulae; References; Part III: Portfolio optimization approaches; Chapter 10: Robust portfolio optimization; 10.1 Overview; 10.2 Robust statistics
10.3 Robust optimization10.4 Synopsis of R packages; 10.5 Empirical applications; References; Chapter 11: Diversification reconsidered; 11.1 Introduction; 11.2 Most-diversified portfolio; 11.3 Risk contribution constrained portfolios; 11.4 Optimal tail-dependent portfolios; 11.5 Synopsis of R packages; 11.6 Empirical applications; References; Chapter 12: Risk-optimal portfolios; 12.1 Overview; 12.2 Mean-VaR portfolios; 12.3 Optimal CVaR portfolios; 12.4 Optimal draw-down portfolios; 12.5 Synopsis of R packages; 12.6 Empirical applications; References; Chapter 13: Tactical asset allocation
13.1 Overview13.2 Survey of selected time series models; 13.3 The Black-Litterman approach; 13.4 Copula opinion and entropy pooling; 13.5 Synopsis of R packages; References; Chapter 14: Probabilistic utility; 14.1 Overview; 14.2 The concept of probabilistic utility; 14.3 Markov chain Monte Carlo; 14.4 Synopsis of R packages; 14.5 Empirical application; References; Appendix A: Package overview; A.1 Packages in alphabetical order; A.2 Packages ordered by topic; References; Appendix B: Time series data; B.1 Date/time classes; B.2 The ts class in the base package stats
B.3 Irregularly spaced time series