

Kunihito Koumoto
Takao Mori *Editors*

Thermoelectric Nanomaterials

Materials Design and Applications

Thermoelectric Nanomaterials Materials Design And Applications Springer Series In Materials Science

Ziqi Sun, Ting Liao



Thermoelectric Nanomaterials Materials Design And Applications Springer Series In Materials Science:

Thermoelectric Nanomaterials Kunihito Koumoto, Takao Mori, 2013-07-20 Presently there is an intense race throughout the world to develop good enough thermoelectric materials which can be used in wide scale applications This book focuses comprehensively on very recent up to date breakthroughs in thermoelectrics utilizing nanomaterials and methods based in nanoscience Importantly it provides the readers with methodology and concepts utilizing atomic scale and nanoscale materials design such as superlattice structuring atomic network structuring and properties control electron correlation design low dimensionality nanostructuring etc Furthermore also indicates the applications of thermoelectrics expected for the large emerging energy market This book has a wide appeal and application value for anyone being interested in state of the art thermoelectrics and or actual viable applications in nanotechnology

Thermodynamics in the Quantum Regime Felix Binder, Luis A. Correa, Christian Gogolin, Janet Anders, Gerardo Adesso, 2019-04-01 Quantum Thermodynamics is a novel research field which explores the emergence of thermodynamics from quantum theory and addresses thermodynamic phenomena which appear in finite size non equilibrium and finite time contexts Blending together elements from open quantum systems statistical mechanics quantum many body physics and quantum information theory it pinpoints thermodynamic advantages and barriers emerging from genuinely quantum properties such as quantum coherence and correlations Owing to recent experimental efforts the field is moving quickly towards practical applications such as nano scale heat devices or thermodynamically optimised protocols for emergent quantum technologies Starting from the basics the present volume reviews some of the most recent developments as well as some of the most important open problems in quantum thermodynamics The self contained chapters provide concise and topical introductions to researchers who are new to the field Experts will find them useful as a reference for the current state of the art In six sections the book covers topics such as quantum heat engines and refrigerators fluctuation theorems the emergence of thermodynamic equilibrium thermodynamics of strongly coupled systems as well as various information theoretic approaches including Landauer s principle and thermal operations It concludes with a section dedicated to recent quantum thermodynamics experiments and experimental prospects on a variety of platforms ranging from cold atoms to photonic systems and NV centres

Responsive Nanomaterials for Sustainable Applications Ziqi Sun, Ting Liao, 2020-04-01 This book addresses the fabrication of responsive functional nanomaterials and their use in sustainable energy and environmental applications Responsive functional nanomaterials can change their physiochemical properties to adapt to their environment Accordingly these novel materials are playing an increasingly important role in a diverse range of applications such as sensors and actuators self healing materials separation drug delivery diagnostics tissue engineering functional coatings and textiles This book reports on the latest advances in responsive functional nanomaterials in a wide range of applications and will appeal to a broad readership across the fields of materials chemistry sustainable energy environmental science and nanotechnology

Crystal Growth of Intermetallics Peter Gille, Yuri Grin, 2018-12-17 Intermetallic compounds are in the focus of solid state research for a wide range of future applications e g in heterogeneous catalysis for thermoelectric generators and basic research of quantum critical effects A comprehensive overview is given on various crystal growth techniques that are particularly adopted to intermetallic phases Experienced authors from leading institutes give detailed descriptions of the specific problems in crystal growth of intermetallic compounds and approaches to solve them

Thermoelectric Energy Conversion Ryoji Funahashi, 2021-01-19 Thermoelectric Energy Conversion Theories and Mechanisms Materials Devices and Applications provides readers with foundational knowledge on key aspects of thermoelectric conversion and reviews future prospects Sections cover the basic theories and mechanisms of thermoelectric physics the chemical and physical aspects of classical to brand new materials measurement techniques of thermoelectric conversion properties from the materials to modules and current research including the physics crystallography and chemistry aspects of processing to produce thermoelectric devices Finally the book discusses thermoelectric conversion applications including cooling generation energy harvesting space sensor and other emerging areas of applications Reviews key applications of thermoelectric energy conversion including cooling power generation energy harvesting and applications for space and sensing Discusses a wide range of materials including skutterudites heusler materials chalcogenides oxides low dimensional materials and organic materials Provides the fundamentals of thermoelectric energy conversion including the physics phonon conduction electronic correlation magneto seebeck theories topological insulators and thermionics

Advances in Terahertz Technology and Its Applications Sudipta Das, N. Anveshkumar, Joydeep Dutta, Arindam Biswas, 2021-10-30 This book highlights the growing applications of THz technology and various modules used for their successful realization The enormous advantages of THz devices like higher resolution spatial directivity high speed communication greater bandwidth non ionizing signal nature and compactness make them useful in various applications like communication sensing security safety spectroscopy manufacturing bio medical agriculture imaging etc Since the THz radiation covers frequencies from 0.1 THz to around 10 THz and highly attenuated by atmospheric gases they are used in short distance applications only The book focuses on recent advances and different research issues in terahertz technology and presents theoretical methodological well established and validated empirical works dealing with the different topics

Computational Materials Discovery Artem R Oganov, Gabriele Saleh, Alexander G Kvashnin, 2018-10-30 New technologies are made possible by new materials and until recently new materials could only be discovered experimentally Recent advances in solving the crystal structure prediction problem means that the computational design of materials is now a reality Computational Materials Discovery provides a comprehensive review of this field covering different computational methodologies as well as specific applications of materials design The book starts by illustrating how and why first principle calculations have gained importance in the process of materials discovery The book is then split into three sections the first exploring different approaches and ideas including crystal

structure prediction from evolutionary approaches data mining methods and applications of machine learning Section two then looks at examples of designing specific functional materials with special technological relevance for example photovoltaic materials superconducting materials topological insulators and thermoelectric materials The final section considers recent developments in creating low dimensional materials With contributions from pioneers and leaders in the field this unique and timely book provides a convenient entry point for graduate students researchers and industrial scientists on both the methodologies and applications of the computational design of materials

Advanced Power Generation Systems Yatish T. Shah, 2022-12-21 Advanced Power Generation Systems Thermal Sources evaluates advances made in heat to power technologies for conventional combustion heat and nuclear heat along with natural sources of geothermal solar and waste heat generated from the use of different sources These advances will render the landscape of power generation significantly different in just a few decades This book covers the commercial viability of advanced technologies and identifies where more work needs to be done Since power is the future of energy these technologies will remain sustainable over a long period of time Key Features Covers power generation and heat engines Details photovoltaics thermo photovoltaics and thermoelectricity Includes discussion of nuclear and renewable energy as well as waste heat This book will be useful for advanced students researchers and professionals interested in power generation and energy industries

Advanced Thermoelectric Materials - Theory, Development, and Applications Uday M. Basheer Al-Naib, 2025-07-30 Advanced Thermoelectric Materials Theory Development and Applications offers a comprehensive exploration of the science and technology behind thermoelectric materials from fundamental principles to emerging applications Designed for researchers engineers and graduate students this volume provides a clear and accessible overview of key concepts such as the Seebeck effect thermoelectric coefficients and the figure of merit ZT while also delving into advanced topics including band structure engineering phonon scattering mechanisms and microstructural optimization The book examines a wide range of thermoelectric materials including bismuth telluride lead telluride ceramic compounds and flexible organic systems alongside state of the art synthesis methods such as thin film deposition nanostructuring and doping strategies Practical insights are offered into electrical and thermal conductivity measurement techniques as well as real world applications in waste heat recovery automotive energy systems space exploration and wearable electronics By uniting theoretical knowledge with current research trends and practical engineering approaches this volume serves as a valuable reference for advancing the design and deployment of high performance thermoelectric systems

Local Mechanical Properties XIII František Lofaj, Pavol Zubko, 2018-10-29 13th International Conference on Local Mechanical Properties 13th LMP 2017 Selected peer reviewed papers from the 13th International Conference Local Mechanical Properties LMP2017 November 6 8 2017 Ko ice Slovakia

Nanomaterials and Nanocomposites Rajendra Kumar Goyal, 2017-10-30 The main aims of this book are to summarize the fundamentals synthesis methods properties and applications of nanomaterials so as to

provide readers with a systematic knowledge on nanomaterials. In addition, the book covers most commonly used characterization tools pertaining to nanomaterials. Further, it deals with relevant aspects of nanocomposites which contain dispersion of nano-sized particulates and carbon nanotubes (CNTs) in the matrices polymer, metal, and ceramic. It also discusses development of smart nano-textiles, intelligent textiles, self-cleaning glass, sensors, actuators, ferrofluids, and wear-resistant nano-coatings. Aimed at senior undergraduate and graduate students, the key features of this book include: Top-down and bottom-up approaches for the synthesis of nanomaterials; Includes sample preparation and basic principle of characterization tools for nanomaterials; Explains calculation of ratios of surface area to volume and surface atoms to bulk atoms; Reviews synthesis, properties, and applications of carbon nanotubes and magnetic nanomaterials; Discusses size effect on thermal, mechanical, optical, magnetic, and electrical properties.

Thermal Nanosystems and Nanomaterials Sebastian Volz, 2009-12-24 Heat transfer laws for conduction, radiation, and convection change when the dimensions of the systems in question shrink. The altered behaviours can be used efficiently in energy conversion, respectively bio- and high-performance materials to control microelectronic devices. To understand and model those thermal mechanisms, specific metrologies have to be established. This book provides an overview of actual devices and materials involving micro-nanoscale heat transfer mechanisms. These are clearly explained and exemplified by a large spectrum of relevant physical models, while the most advanced nanoscale thermal metrologies are presented.

Mechanochemistry and Emerging Technologies for Sustainable Chemical Manufacturing Evelina Colacino, Felipe Garcia, 2023-07-06 This unique volume describes advances in the field of mechanochemistry, in particular the scaling up of mechanochemical processes. Scalable techniques employed to carry out solvent-free synthesis are evaluated. Comparability to continuous flow chemistry, the current industrial benchmark for continuous, efficient chemical synthesis, is presented. The book concludes that mechanochemical synthesis can be scaled up into a continuous, sustainable process. It demonstrates that large-scale mechanochemistry can meet industrial demands, especially in the pharmaceutical industry. Features: Mechanochemistry is rapidly developing as a multidisciplinary science on the borderline between chemistry, materials science, and environmental science. This unique text focuses on mechanochemistry with the ability to scale up and illustrates how mechanochemical synthesis is no longer an obstacle. This timely book highlights recent advancements describing what can be achieved in chemical synthesis. Mechanochemistry enables the synthesis of multiple polymorphic crystalline forms in the production of drugs in the form of tablets or granules in capsules.

Graphene Ramesh T. Subramaniam, Ramesh Kasi, Shahid Bashir, Sachin Sharma, Ashok Kumar, 2023-05-02 This book highlights the versatility of graphene, focusing on the background of graphene, its overall structure, superior properties, fabrication routes, characterization techniques, graphene composites, derivatives, and potential applications. A remarkable surge in interest for graphene and its applications has resulted in a substantial increase in the number of publications in terms of reviews and scientific articles, books, and patents. Therefore, this

book essentially addresses a wide range of graphene research and provides a great resource for beginners students in sciences or engineering researchers professionals and materials scientists

Nanomaterials Synthesis Yasir Beeran Pottathara, Sabu Thomas, Nandakumar Kalarikkal, Yves Grohens, Vanja Kokol, 2019-05-29 Nanomaterials Synthesis Design Fabrication and Applications combines the present and emerging trends of synthesis routes of nanomaterials with the incorporation of various technologies The book covers the new trends and challenges in the synthesis and surface engineering of a wide range of nanomaterials including emerging technologies used for their synthesis Significant properties safety and sustainability and environmental impacts of the synthesis routes are explored This book is an important information source that will help materials scientists and engineers who want to learn more about how different classes of nanomaterials are designed Highlights recent developments in and opportunities created by new nanomaterials synthesis methods Explains major synthesis techniques for different types of nanomaterials Discusses the challenges of using a variety of synthesis methods

Nanomaterials and Their Applications Zishan Husain Khan, 2017-10-20 This book focuses on the latest advances in the field of nanomaterials and their applications and provides a comprehensive overview of the state of the art of research in this rapidly developing field The book comprises chapters exploring various aspects of nanomaterials Given the depth and breadth of coverage the book offers a valuable guide for researchers and students working in the area of nanomaterials

Applications of Contemporary Nanomaterials for Advanced Energy Storage and Conversion Kingsley Eghonghon Ukhurebor, Uyiosa Osagie Aigbe, 2025-10-28 Applications of Contemporary Nanomaterials for Advanced Energy Storage and Conversion discusses the applications of contemporary nanomaterials for advanced energy storage and conversion such as supercapacitors Li ion batteries and fuel cells Due to their unique properties and structure including high surface area electron conductivity capacitance energy density charge discharge cycle stability and power conversion efficiency contemporary nanomaterial applications as essential efficient energy devices have advanced over the years Contemporary nanomaterials also offer better thermal constancy mechanical robustness and microstructure properties Consequently this book comprehensively covers the design processing and applications of contemporary nanomaterials based nanoarchitectures in high performance energy storage and conversion devices Hence this book will be of great support to students professionals practitioners scientists researchers and academicians in various research domains particularly those in material science and sustainable and eco friendly energy technologies Key Features Highlights the applications of nanomaterials for advanced energy storage and conversion Discusses the synthesis of nanomaterials as well as the state of the art advances and future prospects of contemporary nanomaterials for advanced energy storage and conversion The first book to focus on both advanced energy storage and conversion technologies

Green Magnetic Nanoparticles (GMNPs) Ruby Aslam, Chaudhery Mustansar Hussain, Jeenat Aslam, 2024-05-17 Green Magnetic Nanoparticles GMNPs Recent Developments in Preparation and Application highlights established research and technology on nanomaterials

nanocomposites and other alternative materials to be used for different applications and move to their rapidly emerging aspects and then discusses future research directions Nanomaterials and nanocomposites are the most effective materials to be used in different industrial applications Green nanotechnology incorporates the principles of green chemistry and green engineering to fabricate innocuous and eco friendly nanoassemblies to combat problems affecting both human health and the environment It provides academia and industry with a high tech start up that will revolutionize the modern developments in synthesis and applications of green magnetic nanoparticles This book evaluates green magnetic nanoparticles as prime options for smart and transformational opportunities Covers the synthesis characterization properties and applications of green magnetic nanoparticles Highlights the use of green magnetic nanoparticles as revolutionized modern industrial practices Evaluates green magnetic nanoparticles as prime options for smart and transformational opportunities

Metallic Nanostructures Francisco Javier Gonzalez,2025-05-14 Metallic nanoparticles have a rich historical presence having been utilized in ancient artifacts long before the advent of modern nanotechnology Among these artifacts are the legendary Damascus sword renowned for its strength and sharpness and the vibrant colors of stained glass windows in medieval churches It was not until the discovery of the scanning electron microscope that scientists began to understand the extraordinary properties of these ancient marvels This book delves into the science behind why metallic nanostructures exhibit such exceptional behaviors including their unique physical properties and the underlying principles that govern them This book provides an in depth look at the methods used to fabricate these structures the techniques for characterizing and modeling them and the wide range of applications they have in today s technology driven world From medical diagnostics and electromagnetic detection to energy storage the potential of metallic nanostructures is vast and ever expanding

Advances in Nanostructures Sanjeev Gautam,Jitendra Pal Singh,Dibya Prakash Rai,Anuj Kumar,Ankitendran Mishra,2024-09-11 *Advances in Nanostructures Processing and Methodology to Grow Nanostructures* provides readers with the most appropriate nanostructuring methods used for obtaining nanoparticles with specific requirements suitable for different applications taking into consideration characteristics such as dimension and shape The different methods used to synthesize nanomaterials are thoroughly discussed along nanomaterials properties and characterization techniques reviewed Chapters on advanced nanostructures applications provide in depth knowledge on applications of these nanostructures in interdisciplinary fields such as energy environment and healthcare areas Discusses various physical and chemical methods of preparing nanomaterials Presents some of the most important techniques for the characterization of nanostructures and nanoparticles Features applications of nanostructures in the fields of energy environment and healthcare

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