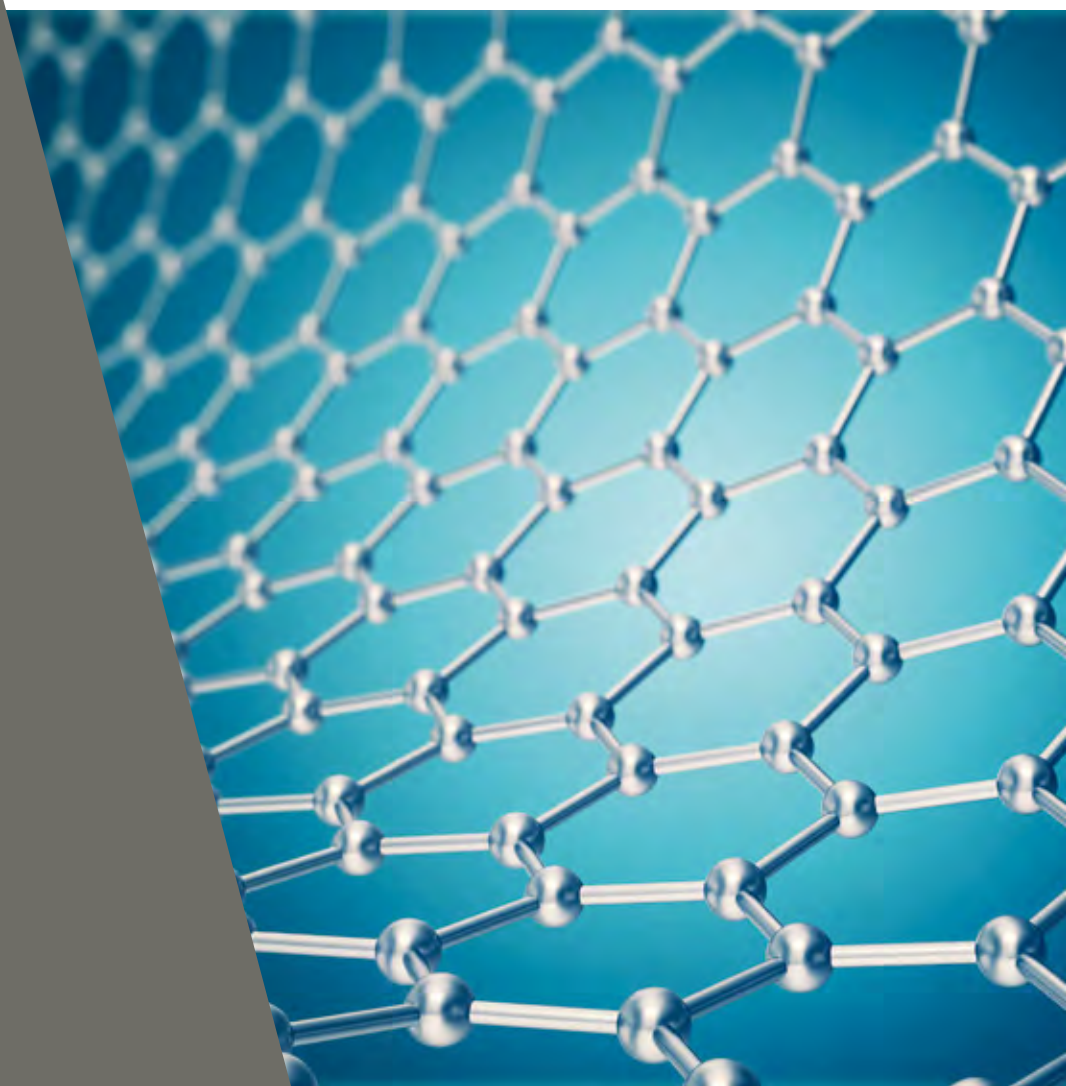


MATERIALS SCIENCE & NANOSCIENCE

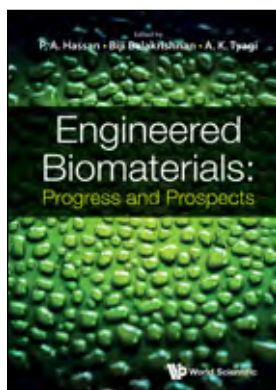
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Highlights

Materials Science & Nanoscience Catalogue 2024

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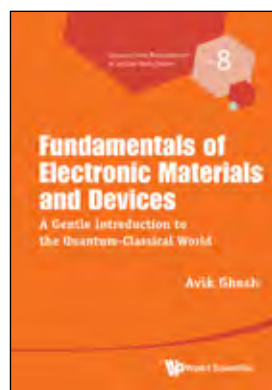
edited by **P A Hassan** (Bhabha Atomic Research Centre, India), **Biji Balakrishnan** (Bhabha Atomic Research Centre, India) & **A K Tyagi** (Bhabha Atomic Research Centre, India)

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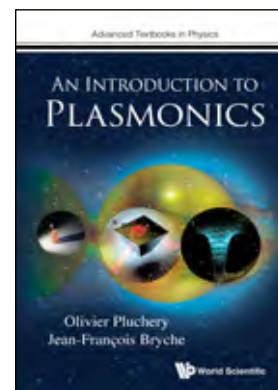
by **Fei Ye, Chengzhu Liao, Hua Cheng, Jianbo Zhang, Haiou Wang, Yanyan Li, Huili Li & Jing Ming** (Southern University of Science and Technology, China)

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by **Avik Ghosh** (University of Virginia, USA)

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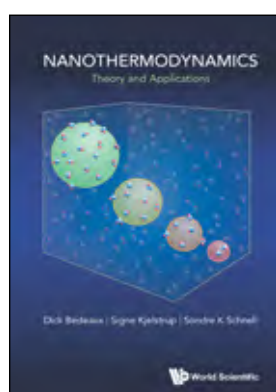
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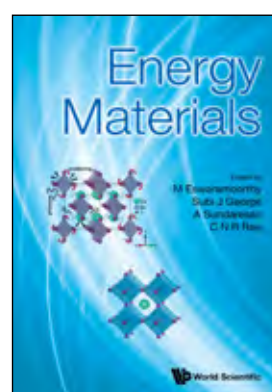
by **Mark Lundstrom** (Purdue University, USA)

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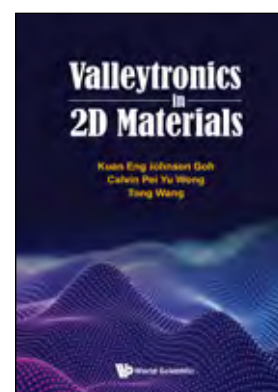
by **Dick Bedeaux, Signe Kjelstrup & Sondre K Schnell** (Norwegian University of Science and Technology, Norway)

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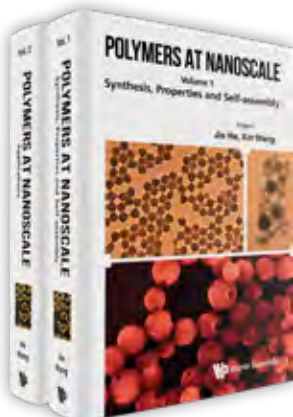
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Editor-in-chief:
Luis M Liz-Marzán (CIC biomaGUNE, Spain)

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Materials Science & Nanoscience

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Biomaterials

BIOMATERIALS FOR MODERN CANCER IMAGING AND THERAPIESby **Maoquan Chu** (*Tongji University, China*)

Methylene blue (MB) is a biocompatible and environmentally friendly material. MB has been widely used in clinical and biomedical research fields. The book covers Methylene blue (MB)-mediated in vivo fluorescence, photoacoustic imaging and light-induced cancer therapy. The optical properties and photothermal effect of MB are also systematically described. It introduces the properties and biomedical applications of MB.

Readership: Undergraduate and postgraduate students, clinical doctors, basic research personnels.

280pp	Sep 2023	
978-981-127-769-6	US\$108	£95
978-981-127-770-2(ebook)	US\$173	£150

ENGINEERED BIOMATERIALS: PROGRESS AND PROSPECTS

edited by **P A Hassan** (*Bhabha Atomic Research Centre, India*), **Biji Balakrishnan** (*Bhabha Atomic Research Centre, India*) & **A K Tyagi** (*Bhabha Atomic Research Centre, India*)

The book presents the developments in the area of biomaterials research exemplified by experts in the fields of tissue engineering, wound healing, bio-diagnostics, novel therapeutics and advanced drug delivery systems. It provides a comprehensive account of preparation, characterisation, properties, processing, biological and clinical evaluation of a large variety of materials for specific biomedical applications. This book also discusses various advanced therapeutic and diagnostic systems such as magnetic nanoparticle based hyperthermia and their surface functionalization techniques.

Readership: Graduate students and researchers in Biomedical Engineering and Materials Science.

400pp	Aug 2023	
978-981-127-200-4	US\$138	£120
978-981-127-201-1(ebook)	US\$221	£195

Sustainable Chemistry Series - Vol 6

DENSIFICATION IMPACT ON RAW, CHEMICALLY AND THERMALLY PRETREATED BIOMASS

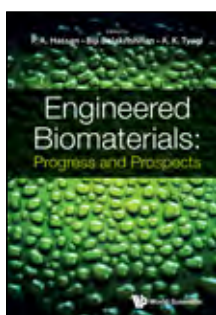
Physical Properties and Biofuels Production

edited by **Jaya Shankar Tumuluru** (*Southwestern Cotton Ginning Research Laboratory, USA*)

This book focuses on understanding how the densification process variables, biomass types and their blends, mechanical preprocessing, and thermal and chemical pretreatment methods impact the quality of the densified products produced for biofuel production. It explores the conversion performance of densified biomass for biofuel production.

Readership: Undergraduate and graduate students, university professors, researchers, process engineers,

348pp	Jun 2023	
978-1-80061-378-2	US\$118	£105
978-1-80061-379-9(ebook)	US\$189	£165

**EMERGING TECHNOLOGIES IN BIOPHYSICAL SCIENCES: A WORLD SCIENTIFIC REFERENCE**

(In 3 Volumes)

Volume 1: Emerging Technologies for Biofabrication and Biomanufacturing

Volume 2: Emerging Technologies for Fertility

Volume 3: Emerging Technologies for Diagnostics

edited by **Utkan Demirci** (*Stanford University, USA*), **Rami El Assal** (*Stanford University, USA*), **Pu Chen** (*Wuhan University, China*), **Waseem Asghar** (*Florida Atlantic University, USA*), **Fatih Inci** (*Bilkent University-UNAM, Turkey & Stanford University, USA*) & **Shuqi Wang** (*Sichuan University, China*)

Editor-in-chief: **Utkan Demirci** (*Stanford University, USA*)

Volume 1:

Biofabrication aims to produce artificially manufactured tissues and organs, potentially revolutionizing conventional paradigm of clinical practice in treating diseases and extending the life span and quality of human beings. In this volume, we invite notable experts in the field of biofabrication and biomanufacturing to summarize recent rapid progress in this field from multifaceted aspects covering biofabrication techniques and building materials such as scaffold and living cells. Specifically, a focus is placed on a variety of techniques derived from 3D bioprinting and bioassembly strategies, such as acoustic assembly and electrofabrication. Moreover, principles and strategies for choosing hydrogels and polymers for biofabrication are also heavily discussed.

**Volume 2:**

Infertility has become a significant psychosocial burden affecting the lives of couples who cannot reproduce naturally. Advanced reproductive technologies (ARTs) are being developed to treat infertility. This handbook explores significant development of ARTs for fertility testing, selection of sperm, oocyte and embryo, reproductive monitors, automation in embryology, and fertility preservation. This volume provides a comprehensive overview of the myriad of emerging technologies and systems that are being utilized or will be utilized in near future in reproductive clinics.

Volume 3:

Healthcare industry has a notable paradigm transition from centralized care to the point-of-care (POC). During this metamorphosis, a number of new technologies and strategies have been adapted to the current practice, addressing the existing challenges in the fields of medicine and biology. In contrast to the existing diagnostic strategies employing bulky-sized tools, expensive infrastructure, laborious protocols, and lengthy processing steps, the contribution of biosensors to current healthcare system, especially to diagnostics, is paramount. The unprecedented and admirable characteristics of biosensing strategies have expanded our knowledge on medicine and biology by harmonizing materials science, chemistry, physics, and engineering. Biosensors applied to disease diagnostics will not only garner more attention in clinical research to decipher disease biology and mechanism, and also, stimulate innovative perspectives in artificial intelligence (AI) and internet of things (IoT) synergistically, thereby their more facile adaptation to daily-use.

1080pp	Jan 2023	
978-981-122-565-9(Set)	US\$1200	£1055
978-981-122-568-0(Set)(ebook)	US\$1920	£1690



General Materials Science

COMPREHENSIVE EXPERIMENTS FOR MATERIALS SCIENCE AND ENGINEERING

by **Fei Ye** (Southern University of Science and Technology, China), **Chengzhu Liao** (Southern University of Science and Technology, China), **Hua Cheng** (Southern University of Science and Technology, China), **Jianbo Zhang** (Southern University of Science and Technology, China), **Haïou Wang** (Southern University of Science and Technology, China), **Yanyan Li** (Southern University of Science and Technology, China), **Huili Li** (Southern University of Science and Technology, China) & **Jing Ming** (Southern University of Science and Technology, China)



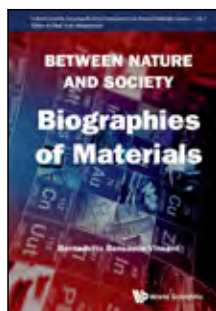
This book covers the main contents of experimental courses of materials science and engineering (MSE). The experiments cover the forefront of scientific research and the materials industry with appropriate modification. It intends to serve as a textbook for undergraduate students and aims to help teachers find a wide enough variety of experiments to construct in an experimental course.

Readership: Materials scientists, student and researchers in materials science.

392pp	Jul 2023	
978-981-127-404-6	US\$148	£130
978-981-127-405-3(ebook)	US\$237	£210

BETWEEN NATURE AND SOCIETY

Biographies of Materials
edited by **Bernadette Bensaude-Vincent** (University of Paris 1 Pantheon-Sorbonne, France)



This volume opens the readers' eyes to the central role of 15 materials in human societies and in the environment by telling the life stories of fifteen materials. In this rich collection of stories, materials are found at the complex interface between nature and society. They are not just atomic structures with a set of properties and behaviors. They capture the attention of nations worldwide because materials have major impacts on our welfare and can affect international peace and security.

This volume brings together materials scientists, historians, and STS scholars, developing unique interdisciplinary perspectives on materials.

292pp	May 2022	
978-981-125-174-0	US\$98	£80
978-981-125-175-7(ebook)	US\$157	£125

LABORATORY SCIENTIFIC GLASSBLOWING

Advanced Techniques and Glassblowing's Place in History
edited by **Paul Le Pinnet** (British Society of Scientific Glassblowers, UK)

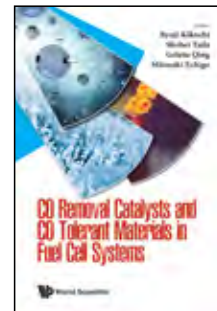


This book pushes back the boundaries of Scientific Glassblowing, emphasizing the possibilities of the material. This book has gathered Scientific Glassblowers from around the world to describe advanced glassblowing techniques in addition to the historical background of its development.

304pp	Apr 2022	
978-981-124-787-3	US\$98	£80
978-981-124-788-0(ebook)	US\$157	£130

CO REMOVAL CATALYSTS AND CO TOLERANT MATERIALS IN FUEL CELL SYSTEMS

edited by **Ryuji Kikuchi** (The University of Tokyo, Japan), **Shohei Tada** (Seikei University, Japan), **Geletu Qing** (Michigan State University, USA) & **Mitsuaki Echigo** (Osaka Gas Co., Ltd, Japan)

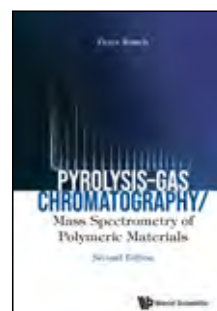


This book analyses the vast existing research on CO and CO₂ methanation to find key issues to perform CO methanation selectively and demonstrates the process experimentally in an actual reactor scale. In addition, related CO removal techniques and current fuel cell systems are presented. The book is ideal for graduate students, fuel cell researchers, chemical engineers and chemists with an interest in the field.

200pp	Feb 2024	
978-1-78634-502-8	US\$98	£86
978-1-78634-503-5(ebook)	US\$157	£125

PYROLYSIS – GAS CHROMATOGRAPH/MASS SPECTROMETRY OF POLYMERIC MATERIALS

(2nd Edition)
by **Peter Kusch** (Bonn-Rhein-Sieg University of Applied Sciences, Germany)



Review of the First Edition:

"... I particularly liked the summary format which the author applied to each of the referenced pristine and blended polymer types. Presenting an overview summary of polymer structure, characteristics, synthesis routes and application in addition to the pyrolytic fragmentation pattern information should be extremely useful to anyone working in the field of analytical characterization of polymeric materials."

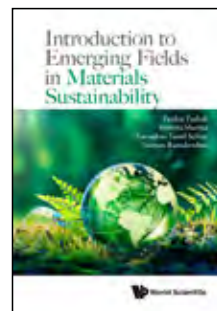
Don Wright
Manager / Consultant
Georgetown, Texas

Readership: Students of chemistry and materials science.

350pp	Aug 2023	
978-1-80061-298-3	US\$138	£110
978-1-80061-299-0(ebook)	US\$221	£175

INTRODUCTION TO EMERGING FIELDS IN MATERIALS SUSTAINABILITY

by **Pankaj Pathak** (SRM University Andhra Pradesh, India), **Susmita Sharma** (National Institute of Technology Meghalaya, India), **Ramados Tamil Selvan** (National University of Singapore, Singapore) & **Seeram Ramakrishna** (National University of Singapore, Singapore)



"This excellent new book covers important concepts of sustainability focusing on materials and their waste streams. The impressive team of authors use their insight to explore water management, food, waste management, plastics, electronics, and construction sectors, complementing this with a general introduction to the basic concepts of sustainability and the role of different materials..."

Paul Hogg
Professor, Royal Holloway University of London, UK

200pp	Apr 2024	
978-981-124-764-4	US\$78	£70
978-981-124-765-1(ebook)	US\$125	£100

General Nanoscience

INTRODUCTION TO NANOTECHNOLOGY

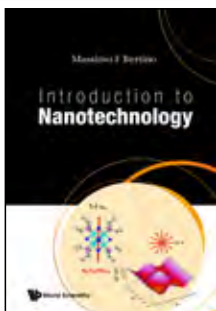
by Massimo F Bertino

(Virginia Commonwealth University, USA)

The book was written with the fact that nanotechnology is a vast field where the applications range from paint to nanomedicine, through plasmonics and catalysis. This textbook focuses on the key physical and chemical principles and uses many formulas and equations within with the one-semester time constraint.

Readership: Academia; graduate students and advanced undergraduates in nanotechnology and materials science.

236pp	Feb 2022	
978-981-123-303-6(pbk)	US\$58	£50
978-981-123-160-5	US\$118	£95
978-981-123-161-2(ebook)	US\$189	£150



New Era Electronics: A Lecture Notes Series - Vol 1

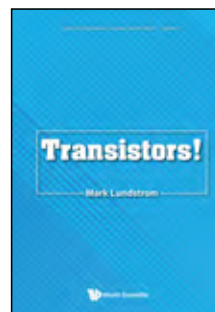
TRANSISTORS!

by Mark Lundstrom (Purdue University, USA)

The book discusses all the most used transistors: silicon MOSFETs, III-V heterostructure FETs and HBTs, and power MOSFETs. This is the first introductory transistor textbook that seamlessly treats MOSFETs from long-channel square-law devices to short channel ballistic and quasi-ballistic devices. This volume rearranges the familiar topics and distills the most essential among them, while adding most recent approaches which have become crucial to the discussion.

Readership: Advanced undergraduates and graduates in electronic engineering, semiconductors, microelectronics and nanoelectronics, as well as professional engineers.

280pp	Jan 2023	
978-981-126-768-0(pbk)	US\$58	£50
978-981-126-726-0	US\$108	£95
978-981-126-727-7(ebook)	US\$173	£150



TOPOLOGICALLY ORDERED ZIGZAG NANORIBBON

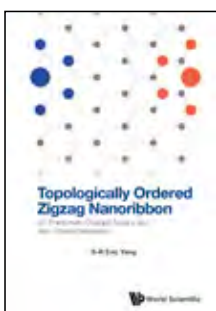
$e/2$ Fractionally Charged Anyons and Spin-Charge Separation

by S-R Eric Yang (Korea University, South Korea)

This is the first graduate level textbook of topologically ordered phases with emphasis on graphene zigzag nanoribbons. It also explains common properties of several other topologically ordered phases as well as the $e/2$ fractional charge quantization and spin-charge separation of an electron.

Readership: Graduate level students and researchers.

564pp	May 2023	
978-981-126-189-3	US\$168	£150
978-981-126-190-9(ebook)	US\$269	£235



Nanophotonics

Advanced Textbooks in Physics

AN INTRODUCTION TO PLASMONICS

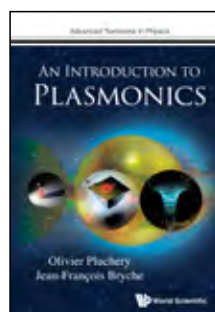
by Olivier Pluchery (Sorbonne University, Paris)

& Jean-François Bryche (Sherbrooke University, Canada)

This book starts with the concepts of wave and the electromagnetic description of light when it interacts with metals and then dedicates every chapter thereafter to all aspects of plasmonics. In particular, the Surface Plasmon Polariton wave is explained in full detail as well as the Localized Surface Plasmon Resonance of metallic nanoparticles. Each chapter ends with a set of exercises that will help the reader revise the concepts and go deeper into the world of plasmonics. More than 70 exercises are included.

Readership: Academia, researcher, graduate and undergraduate students.

334pp	Sep 2023	
978-1-80061-339-3	US\$88	£75
978-1-80061-340-9(ebook)	US\$141	£125



Nanoelectronics

Lessons from Nanoscience: A Lecture Notes Series - Vol 8

FUNDAMENTALS OF ELECTRONIC MATERIALS AND DEVICES

A Gentle Introduction to the Quantum-Classical World

by Avik Ghosh (University of Virginia, USA)

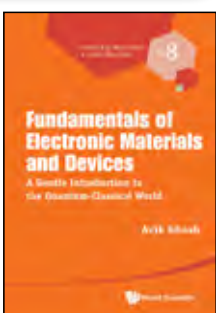
"... contains well-crafted and advanced problems that help solidify understanding of the subjects."

Philip Kim
Professor, Harvard University
Winner, Oliver E Buckley Prize (2014)

"... addresses the critical need to bring bottom-up quantum physics and top-down device engineering together. Students will find in this book a unique combination of clearly-presented fundamental science and the device engineering principles needed to advance electronics in the nanoscale era."

Mark Lundstrom
Don and Carol SciFres Distinguished Professor,
Purdue University
Winner, IEEE Kirchmayer Graduate Teaching Award (2018)

348pp	Feb 2023	
978-981-126-657-7(pbk)	US\$38	£35
978-981-126-595-2	US\$108	£95
978-981-126-596-9(ebook)	US\$173	£150



Optical Materials and Applications - Vol 1

NOVEL OPTICAL MATERIALS

edited by Iam Choon Khoo (The Pennsylvania State University, USA),

Francesco Simoni (Università Politecnica delle Marche, Italy) &

Cesare Umetsu (Università della Calabria, Italy)

This book comprises timely contributions from active research groups covering several classes of materials and processes including nano-structured plasmonic and photonic materials, 2-D materials, photo-polymers, liquid crystals, photo-sensitive and opto-thermal, and other specially engineered materials.

Readership: Graduate students, researchers, engineers, and optical and materials scientists.

350pp	Dec 2023	
978-981-128-059-7	US\$128	£115
978-981-128-060-3(ebook)	US\$205	£180

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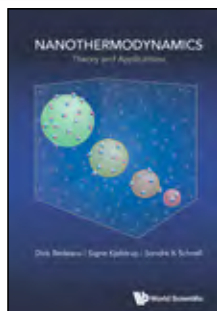
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Nanothermodynamics

NANOTHERMODYNAMICS

Theory and Applications

by **Dick Bedeaux** (Norwegian University of Science and Technology, Norway), **Signe Kjelstrup** (Norwegian University of Science and Technology, Norway) & **Sondre K Schnell** (Norwegian University of Science and Technology, Norway)



The book explains a general, systematic procedure on how to include size and shape dependent temperature, pressure and chemical potentials in thermodynamics. In the first part, the authors highlight the basic idea of the theory and provide a more systematic method, than used before. In the second part, the authors demonstrate the power of the theory in a set of central applications of nanoscience in and away from equilibrium.

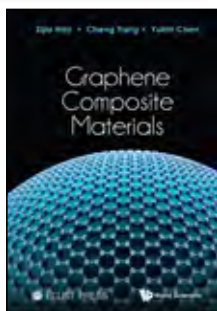
Readership: Graduate students and professionals in Nanoscience.

382pp	Sep 2023	
978-981-127-499-2	US\$148	£130
978-981-127-500-5(ebook)	US\$237	£210

New Materials

GRAPHENE COMPOSITE MATERIALS

by **Sijia Hao** (Beijing Institute of Aeronautical Materials, China & Beijing Institute of Graphene Technology Co. Ltd., China), **Cheng Yang** (Beijing Institute of Aeronautical Materials, China & Beijing Institute of Graphene Technology Co. Ltd., China) & **Yubin Chen** (Beijing Institute of Aeronautical Materials, China & Beijing Institute of Graphene Technology Co. Ltd., China)



This book introduces in detail the basic theory, process methods, property evaluation, research progress, development trend, and basic scientific issues in the combination of graphene and its composite materials in recent years. The useful reference text focuses on four categories of graphene composite materials based on the matrix materials, metal, resin, rubber composites, and composite coatings.

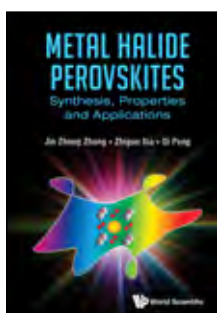
Readership: Researchers, professionals, academics, and graduate students in new materials, nanomaterials.

352pp	Jul 2023	
978-981-127-678-1	US\$138	£120
978-981-127-679-8(ebook)	US\$221	£195

METAL HALIDE PEROVSKITES

Synthesis, Properties and Applications

by **Jin Zhong Zhang** (University of California Santa Cruz, USA), **Zhiguo Xia** (South China University of Technology, China) & **Qi Pang** (Guangxi University, China)

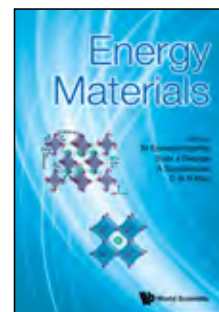


This book covers systematically the fundamental aspects of synthesis, properties, and applications of metal halide perovskites that exhibit unique properties and useful functionalities. This useful reference text provides a good balance between fundamental concepts/principles and related recent researches with many highlighted examples.

260pp	Apr 2023	
978-981-125-741-4	US\$98	£85
978-981-125-742-1(ebook)	US\$157	£140

ENERGY MATERIALS

edited by **M Eswaramoorthy** (Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), India), **Subi J George** (Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), India), **A Sundaresan** (Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), India) & **C N R Rao** (Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), India)



This book covers various sections that are currently exploring energy solutions through materials. The various aspects of energy include electrical power, comprising batteries, supercapacitors, thermoelectric energy conversion, photovoltaics, etc. Hydrogen is available in abundance, but catalysts are needed for the catalysis, so catalysts or porous solids have universal appeal in usage and applications.

Readership: Graduate students and researchers in energy materials.

384pp	Feb 2023	
978-981-127-094-9	US\$138	£120
978-981-127-095-6(ebook)	US\$221	£195

INNOVATIVE PIEZO-ACTIVE COMPOSITES AND THEIR STRUCTURE – PROPERTY RELATIONSHIPS

by **James I Roscow** (University of Bath, UK), **Vitaly Yu Topolov** (Southern Federal University, Russia), **Christopher R Bowen** (University of Bath, UK) & **Hamideh Khanbarez** (University of Bath, UK)

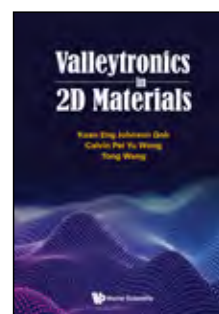


This monograph provides researchers, engineers, postgraduates and lecturers working in the field of ferroelectric or piezoelectric and related materials with features of the structure – property relationships in modern piezo-active composites. The book summarises and generalises authors' works on the problem of the effective properties and related parameters of modern two- and three-component piezo-active composites wherein the microgeometric factor plays the dominating role.

256pp	Oct 2022	
978-981-126-159-6	US\$98	£80
978-981-126-160-2(ebook)	US\$157	£125

VALLEYTRONICS IN 2D MATERIALS

edited by **Kuan Eng Johnson Goh** (Agency for Science, Technology and Research (A*STAR), Singapore), **Calvin Pei Yu Wong** (Agency for Science, Technology and Research (A*STAR), Singapore) & **Tong Wang** (Agency for Science, Technology and Research (A*STAR), Singapore)



“... the field of 2D materials has advanced beyond pure research and entered the engineering and technology areas. It will serve as a practical guide for students, researchers, and entrepreneurs interested in understanding and working in this rapidly developing research field ... The book structure is well-thought and comprehensive ... I totally recommend this book!”

Artem Mishchenko
National Graphene Centre,
University of Manchester, UK

Readership: Applied researchers, engineers, undergraduate students and postgraduate students and general readers.

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Polymers

POLYMERS AT NANOSCALE

(In 2 Volumes)

Volume 1: Synthesis, Properties and Self-assembly

Volume 2: Applications

edited by **Jie He** (*University of Connecticut, USA*) &**Xin Wang** (*Songshan Lake Materials Laboratory, China*)

This book covers the basics and recent advances in polymer nanoparticles, including polymer synthesis, self-assembly, properties, and applications. It encompasses the various preparation methods of polymer nanoparticles, broadly ranged from single chain collapse to polymerization methods and solution self-assembly. It showcases a wide range of advanced applications of polymer nanoparticles in several fields that include pharmaceuticals (drug and nucleotide delivery), biomedical (bioimaging, diagnosis, and therapeutics), energy (batteries and solar cells) and environmental (catalysis and water purification).



This book is enriched with a comprehensive range of content, incorporating synthesis, properties and applications in polymeric nanoparticles that will serve as a suitable beginner guide and survey book in polymer nanomaterials, as well as a useful tool for graduate students, scientists and practitioners in related fields or industries such as chemistry, materials science and engineering, nanomaterials, energy storage and conversion devices, and biomedicine.

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Applied Research for Polymer Composites and Nanocomposites by **Yun-Hae Kim** (*Korea Maritime and Ocean University, South Korea*), **Ri-Ichi Murakami** (*Chengdu University, China*) & **Soo-Jeong Park** (*Korea Maritime and Ocean University, South Korea*)



This book applies various concepts based on practical experimental considerations to industrial fields: aerospace structure, shipbuilding and marine engineering, automotive, and elevator composites. This book deals with applied research from the basics of a rare nanomaterial called halloysite nanotube, which is environmentally friendly and leads nanomaterials in advanced industrial composite materials and functional, structural materials with high practical value. This book includes practical nano-bridging techniques on nanostructures, manufacturing, analysis, and advanced composites' applications using the research know-how accumulated over the years by prominent experts in these areas.

328pp	Apr 2021	
978-981-123-531-3	US\$98	£85
978-981-123-532-0(ebook)	US\$157	£135

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edited by **Paramita Das** (*Indian Institute of Science Education and Research (IISER) Bhopal, India*) & **Subhasis Das** (*The Energy and Resources Institute, India*)

Polymeric materials play an essential and ubiquitous role in many fields including structural and packaging materials, drug development, tissue engineering, wastewater treatment, pollutant removal, separation, water purification, smart agriculture, and even road and building construction. This book contains eleven comprehensive chapters covering topics from deriving polymers from natural resources or wastes to developing novel functional polymeric materials in the form of membranes, hydrogels, foams, nanocomposites for various environmental applications. This book also discusses the utilization of waste plastics and the challenges and progress made in recycling and reusing commercially viable polymers. Such information is valuable and accelerates technological progress. Each chapter further gives the current fabrication methodology, challenges, and future scope of these materials related to their environmental applications. Thus anyone working on polymer-based materials will benefit from the comprehensive knowledge presented in this book on novel polymeric materials and their various environmental applications.

Readership: The academicians, students, researchers, technologists, and environmental professionals working on polymer-based materials.

496pp	May 2023	
978-981-126-592-1	US\$148	£130
978-981-126-593-8(ebook)	US\$237	£210



Materials and Energy - Vol 12

WORLD SCIENTIFIC HANDBOOK OF ORGANIC OPTOELECTRONIC DEVICES

(Volumes 3 & 4)

Volume 3: OLEDs

Volume 4: Flexible Bioelectronics

edited by **Dongge Ma** (*South China University of Technology, China*) & **Tae-Woo Lee** (*Seoul National University, South Korea*)

Editor-in-chief: **Franky So** (*North Carolina State University, USA*)

Organic (opto)electronic materials have received considerable attention due to their applications in perovskite and flexible electronics, OPVs and OLEDs and many others. Reflecting the rapid growth in research and development of organic (opto)electronic materials over the last few decades, World Scientific Handbook of Organic Optoelectronic Devices provides a comprehensive coverage of the state-of-the-art in an accessible format. It presents the most widely recognized fundamentals, principles, and mechanisms along with representative examples, key experimental data, and over 200 illustrative figures.



Readership: Advanced graduate students and researchers in the field of electrical and electronic engineering specifically in polymers, semiconductors and related areas.

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Volume 2: Hybrid Organic Inorganic Perovskites: Optical Properties

Volume 3: Spin Response of Hybrid Organic Inorganic Perovskites

Volume 4: Hybrid Organic Inorganic Perovskite Applications

edited by **Zeev Vally Vardeny** (*University of Utah, USA*) & **Matt C Beard** (*National Renewable Energy Laboratory, USA*)Editors-in-chief: **Zeev Vally Vardeny** (*University of Utah, USA*) & **Matt C Beard** (*National Renewable Energy Laboratory, USA*)

This handbook gives an overview of hybrid organic inorganic perovskites, both two dimensional (2D) and three dimensional (3D), from synthesis and characterization and simulation to optoelectronic devices, spintronics devices and catalysis application.

Volume 1: Material physical properties-structure, deposition characteristic and the structure of the electronic bands.

Volume 2: Hybrid perovskite optical properties- ultrafast optical response, photoluminescence and laser action.

Volume 3: Spin response - application such as spin valves, photogalvanic effect, and magnetic response of light emitting diodes and solar cell devices.

Volume 4: Physics and device properties of the relevant applications - photovoltaic solar cells.

Readership: Physicists, chemists, materials scientists, advanced graduate students, and professional scientists.

860pp	Mar 2022	
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Materials and Energy - Vol 15

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Structure, Properties, Modeling and Main Applications (In 3 Volumes)

Volume 1: Structure, Properties, Modeling and Applications of Amorphous Chalcogenides

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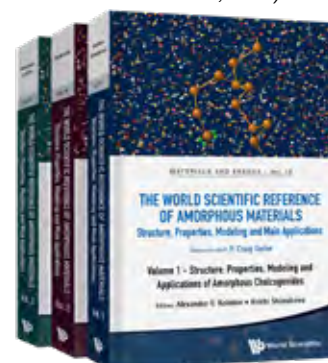
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This three-volume set covers the vast majority of the important concepts needed to understand these materials and their principal practical applications. One volume discusses the most important subset of amorphous insulators, namely oxide glasses; the other two volumes discuss the most important subsets of amorphous semiconductors.

The topics covered in these three volumes include (1) concepts for understanding the structures of amorphous materials, (2) techniques to characterize the structural, electronic, and optical properties of amorphous materials, (3) the roles of defects in affecting the electronic and optical properties of amorphous materials, and (4) the concepts for understanding practical devices and other applications of amorphous materials. Applications discussed in these volumes include transistors, solar cells, displays, bolometers, fibers, non-volatile memories, vidicons, photoresists, and optical disks.

Readership: Physicists, chemists, materials scientists, advanced graduate students, professional scientists looking to change specialties.

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Chemistry and Material Sciences naturally depend greatly on Synthesis as the initial stage for the existence of compounds and materials with desired behaviors, within the overall streamline of Design/Synthesis — Properties — Application/Function, and their relations. Such a general approach is of a too wide scope to be properly treated in a single set of publications, but this one on "Synthesis and Applications in Chemistry and Materials" restricts itself by aiming to show the strength and international character of the current research in synthetic chemistry that is being developed in Portugal or abroad by teams that cooperate with this country. Hence, it gathers representative contributions of main Portuguese research groups and foreign collaborating ones.

Readership: Graduate students and researchers nanomaterials, enzymatic/organic systems, metal complex catalytic systems and materials, biomass and waste valorisation, energy conversion and supercritical systems.

1200pp	Feb 2024	
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This is a book collection that encompasses multiple aspects of the exciting and timely field of nanoplasmonics. Given the breadth of the materials, phenomena and applications related to plasmonics, this reference set offers a collection of chapters within dedicated volumes, focusing on the description of selected phenomena, with an emphasis in chemistry as an enabling tool for the fabrication of, often sophisticated, plasmonic nanoarchitectures and biomedicine as the target application.



Basic principles of surface plasmon resonances are described, as well as those mechanisms related to related phenomena such as surface-enhanced spectroscopies or plasmonic chirality. All such nanomaterials can find applications in various biomedical aspects, most often in relation to diagnosis, through either the detection of disease biomarkers at extremely low concentrations or the design of bioimaging methods for in vivo monitoring.

Readership: Specialized researchers who aim at updated information and broadening their activity in nanoplasmonics and their applications.

2328pp	May 2022	
978-981-123-513-9(Set)	US\$1950	£1715
978-981-123-514-6(Set)(ebook)	US\$3120	£2745

Materials and Energy - Vol 16

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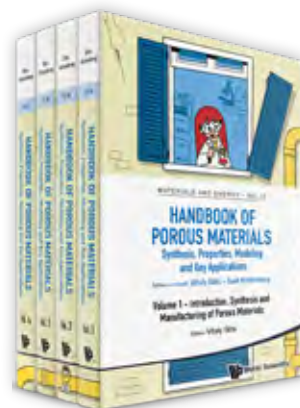
Volume 3: Separations Using Porous Materials

Volume 4: Porous Materials for Energy Conversion and Storage

edited by **Vitaly Gitis** (Ben Gurion University of the Negev, Israel), **Gadi Rothenberg** (University of Amsterdam, The Netherlands), **Anton A Kiss** (The University of Manchester, UK) & **David Eisenberg** (Technion — Israel Institute of Technology, Israel)Editor-in-chiefs: **Vitaly Gitis** (Ben Gurion University of the Negev, Israel) & **Gadi Rothenberg** (University of Amsterdam, The Netherlands)

This four-volume handbook gives an overview of porous materials, from synthesis and characterization and simulation all the way to manufacturing and industrial applications.

Volumes 1 and 2 cover the fundamentals of preparation, characterisation, and simulation of porous materials. Working from the fundamentals all the way to the practicalities of industrial production processes, the subjects include hierarchical materials, in situ and operando characterisation using NMR, X-Ray scattering and tomography, state-of-the-art molecular simulations of adsorption and diffusion in crystalline nanoporous materials, as well as the emerging areas of bio-artifical and drug delivery.



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Volume 4 explains the energy engineering aspects of applying porous materials in supercapacitors, fuel cells, batteries, electrolyzers and sub-surface energy applications.

Readership: University libraries, technical institutes, industrial R&D departments and national and key laboratories. Researchers, graduate students and engineers working in materials science, the energy transition, chemistry and chemical engineering.

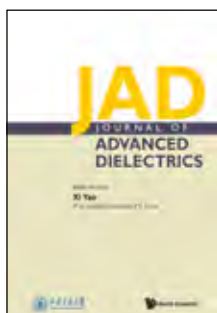
1492pp	Jan 2021	
978-981-122-322-8(Set)	US\$1580	£1390
978-981-122-323-5(Set)(ebook)	US\$2528	£2225

Journals

JOURNAL OF ADVANCED DIELECTRICS (JAD)<https://www.worldscientific.com/jad>

Indexed in Web of Science & Scopus

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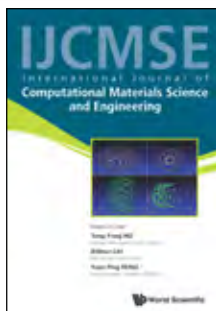
INTERNATIONAL JOURNAL OF COMPUTATIONAL MATERIALS SCIENCE AND ENGINEERING (IJCMSE)

<https://www.worldscientific.com/ijcmse>

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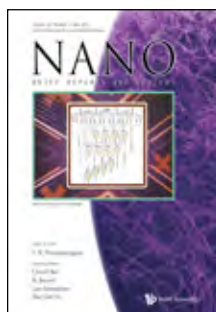


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NANO is an international peer-reviewed journal for nanoscience and nanotechnology that presents forefront fundamental research and new emerging topics. It features timely scientific reports of new results and technical breakthroughs and also contains interesting review articles about recent hot issues.



Research areas of interest include: nanomaterials including nano-related biomaterials, new phenomena and newly developed characterization tools, fabrication methods including by self-assembly, device applications, and numerical simulation, modeling, and theory.

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Functional Materials Letters is an international peer-reviewed scientific journal for original contributions to research on the synthesis, behavior and characterization of functional materials. The scope of the journal covers theoretical and experimental studies of functional materials, characterization and new applications-related research on functional materials in macro-, micro- and nano-scale science and engineering. Among the topics covered are ferroelectric, multiferroic, ferromagnetic, magneto-optical, optoelectric, thermoelectric, energy conversion and energy storage, sustainable energy and shape memory materials



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Spin electronics encompasses a multidisciplinary research effort involving magnetism, semiconductor electronics, materials science, chemistry and biology. *SPIN* aims to provide a forum for the presentation of research and review articles of interest to all researchers in the field.



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This international journal is devoted to the elucidation of properties and processes that occur at the boundaries of materials. The scope of the journal covers a broad range of topics in experimental and theoretical studies of surfaces and interfaces. Both the physical and chemical properties are covered. The journal also places emphasis on emerging areas of cross-disciplinary research where new phenomena occur due to the presence of a surface or an interface.

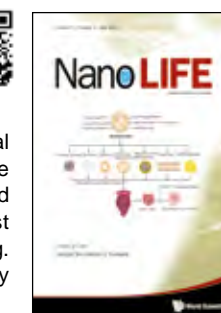


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Impact Factor: 0.8

Nano LIFE is a quarterly international journal publishing peer-reviewed research in the broad fields of nanoscience, biomedicine, and environmental health. This journal was first launched in 2010 by World Scientific Publishing. The journal has been listed in the ISI category of Multidisciplinary Science.



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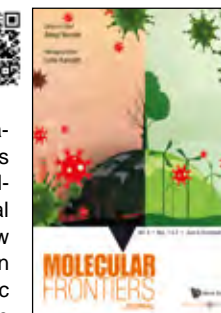
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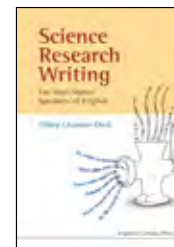
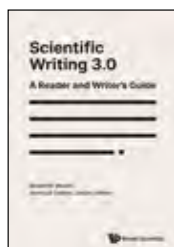
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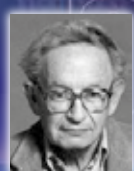
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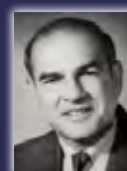
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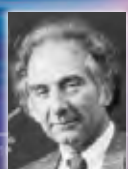
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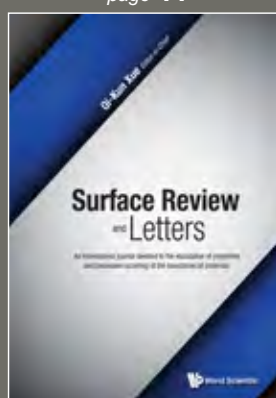
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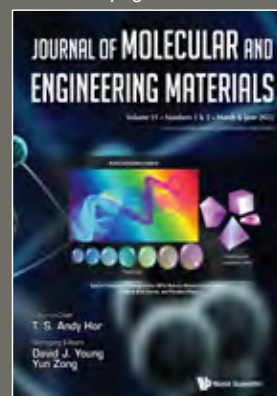
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