

Access Free International Conference On Recent Advances In Composite Materials

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Recent Advances in Magnetic Insulators - From Spintronics to Microwave Applications Jan 06 2022 This volume of Solid State Physics provides a broad review on recent advances in the field of magnetic insulators, ranging from new spin effects to thin film growth and high-frequency applications. It covers both theoretical and experimental progress. The topics include the use of magnetic insulators to produce and transfer spin currents, the excitation of spin waves in magnetic insulators by spin transfer torque, interplay between the spin and heat transports in magnetic insulator/normal metal heterostructures, nonlinear spin waves in thin films, development of high-quality nanometer thick films, and applications of magnetic insulators in rf, microwave, and terahertz devices, among others. The volume not only presents introductions and tutorials for those just entering the field, but also provides comprehensive yet timely summaries to specialists in the field. Solid-state physics is the branch of physics primarily devoted to the study of matter in its solid phase, especially at the atomic level. This prestigious series presents timely and state-of-the-art reviews pertaining to all aspects of solid-state physics. Contributions from leading authorities Informs and updates on all the latest developments in the field

Recent Advances in Parkinsons Disease Feb 19 2023 This first volume starts with an overview on current perspectives in genetic research and on the molecular mechanisms of neurodegeneration. This is followed by a selection of hot topics in pathophysiological research, from molecular studies to system-level investigations based on in vivo electrophysiological recordings and neurocomputational methods. Complete overview of hot topics and approaches to current PD research, from molecules, to brain circuits, to clinical and therapeutic applications. Leading authors review the state-of-the-art in their field of investigation, and provide their views and perspectives for future research. All chapters include comprehensive background information and are written in a clear form that is accessible also to the non-specialist.

Recent Advances in Nano-Tailored Multi-Functional Cementitious Composites Oct 23 2020 Over the past few years, concrete technology has advanced quite dramatically thanks to the use of a great variety of additives and admixtures, which have paved the way for the effective development of new-generation concrete mixtures. Among these additives and admixtures, nanomaterials used in construction materials such as paste, mortar, and concrete mixtures have become very popular recently. Much of the previous attention in regard to the utilization of nanomaterials in construction materials was specifically devoted to the characterization of their fresh-state, hydration, microstructure, pore structure, mechanical, transport, and durability properties. However, research into the tailoring of multi-functional properties of construction materials (especially cementitious) with the use of nanomaterials is still in its infancy. Recent Advances in Nano-Tailored Multi-Functional Cementitious Composites aims to capture recent major scientific advances and the current state of the art in multi-functional cementitious composites developed with nanomaterials. The book will provide researchers, engineers, and other stakeholders with an insight into future directions of multi-functional capabilities of cementitious composites. Chapters focus on the large-scale development, characterization, and application of multi-functional cementitious composites addressing the following topics: nano-modified concrete; strain-hardening cementitious composites; self-sensing concrete; self-healing and bacteria-based concrete; self-cleaning concrete; self-consolidating concrete; material/construction technology for 3D printing; thermal insulation capability; green concretes including geopolymer concrete; nanoscale characterization methods; low CO₂ reactive magnesia cements; and future developments and challenges of nano-tailored cementitious composites. The book will be an essential reference resource for academic and industrial researchers, materials scientists, and civil engineers working on the development and application of nano-tailored multi-functional cementitious composites. Provides very comprehensive and unique details about multi-functional properties of cementitious composites. Presents a detailed account of investigations conducted into the application of nanomaterials and nanoscale tailoring to achieve multi-functional properties for cementitious composites. Features state-of-the-art preparation, production, processing, and implementation techniques of nanoscale tailoring of multi-functional cementitious composites starting from laboratory to large scale.

Recent Advances in Clinical Trial Design and Analysis Oct 15 2022 Clinical trials have two purposes -- to treat the patients in the trial, and to obtain information which increases our understanding of the disease and especially how patients respond to treatment. Statistical design provides a means to achieve both these aims, while statistical data analysis provides methods for extracting useful information from the trial data. Recent advances in statistical computing have enabled statisticians to implement very rapidly a broad array of methods which previously were either impractical or impossible. Biostatisticians are now able to provide much greater support to medical researchers working in both clinical and laboratory settings. As our collective toolkit of techniques for analyzing data has grown, it has become increasingly difficult for biostatisticians to keep up with all the developments in our own

field. Recent Advances in Clinical Trial Design and Analysis brings together biostatisticians doing cutting-edge research and explains some of the more recent developments in biostatistics to clinicians and scientists who work in clinical trials.

Recent Advances in Technologies for Inclusive Well-Being Nov 11 2019 In a time of ongoing pandemic when well-being is a priority this volume presents latest works across disciplines associated to Virtual Patients, Gamification and Simulation. Chapters herein present international perspectives with authors from around the globe contributing to this impactful third edition to the series following a 2014 Springer book on Technologies for Inclusive Well-Being and a 2017 Springer book Recent Advances in Technologies for Inclusive Well-Being. Digital technologies are pervasive in life and the contributions herein focus on specific attributes and situations, especially in training and treatment programmes spanning across ranges of diagnosis, conditions, ages, and targeted impacts. This volume purposefully does not cover all (even if that was possible) aspects on how virtual interactive space can align to spatial computing, which in turn can align with related embodied entities (whatever the terms used e.g. Virtual, Augmented, Extended, Mixed Realities) along with AI, Deep Learning etc. It also doesn't cover what some may refer to as 'trendy terms' such as 360 degree, video, WebXR, cryptocurrency, blockchain, virtual goods, AR museums, travel and teleportation...however, what is covered in this book, and the prior volumes it builds upon (as above), is a sharing and questioning of advancing technologies for inclusive well-being through research and practices from an avant-garde perspective.

Recent Advances in Cannabinoid Physiology and Pathology Jan 18 2023 The cannabinoid system plays a central role in a wide variety of physiological functions that touch upon cardiovascular, gastrointestinal, immune, and nervous systems. Cannabinoids also play a central role in developmental physiology, management of pain, and shaping of human behaviour. Recent movements towards legalization of marijuana use have bolstered scientific interest in the cannabinoid field and led to research efforts that would unveil multifaceted effects and mechanisms of cannabinoid presence in different organs and at various stages of development. This book summarizes the recent advances in the field of cannabinoid research at multiple levels of resolution. It spans from systemic effects of cannabinoids on development, physiological function, and prevalent pathophysiological conditions to mechanisms that govern cannabinoid interaction with their relevant protein targets at atomic resolution. This book will be of interest to a specialized audience in the fields of biochemistry, pharmacology and developmental biology but also to a wider readership with interest in general physiology and cannabinoid signalling in biological systems.

The Resolution Revolution: Recent Advances in cryoEM Jul 20 2020 cryoEM, a new volume in the Methods in Enzymology series, continues the legacy of this premier serial with quality chapters authored by leaders in the field. This volume covers research methods and new developments in recording images, the creation, evaluation and validation of 3D maps from the images, model building into maps and refinement of the resulting atomic structures, and applications of essentially single particle methods to helical structures and to sub-tomogram averaging. Continues the legacy of this premier serial with quality chapters authored by leaders in the field Covers research methods that determine the structures of biological molecules, a vital step for understanding their function Contains the technical developments underpinning the advances of cryoEM and captures the exciting insights that have resulted

Recent Advances in iPSCs for Therapy Mar 16 2020 The series Advances in Stem Cell Biology is a timely and expansive collection of comprehensive information and new discoveries in the field of stem cell biology. Recent Advances in iPSCs for Therapy, Volume 3 addresses the use of induced pluripotent stem cells for therapy of several disorders. The volume teaches the reader about the biology of induced pluripotent stem cells and their possible use as cell therapy. Remarkable progress has been made in the obtention of induced pluripotent stem cells and their differentiation into several cell types, tissues and organs using state-of-art techniques. This volume will cover what we know so far about the use of iPSCs for therapy of multiple diseases, such as: hair loss disorders, Parkinson's disease, Huntington's disease, ischemic stroke, Alzheimer's disease, Glaucoma, Optic Neuropathy, Age-Related Macular Degeneration, Type 1 Diabetes, Heart Failure, liver diseases, infertility, Autoimmune Diseases, and more. The volume is written for researchers and scientists interested in cell therapy, stem cell biology, regenerative medicine, and organ transplantation and is contributed by world-renowned authors in the field. Provides overview of the fast-moving field of stem cell biology and function, regenerative medicine, and therapeutics Covers the possible use of iPSCs for hair loss disorders, Parkinson's disease, Huntington's disease, ischemic stroke, Alzheimer's disease, Glaucoma, Optic Neuropathy, Age-Related Macular Degeneration, Type 1 Diabetes, Heart Failure, liver diseases, infertility, Autoimmune Diseases, and more Contributions from stem cell leaders around the world

Symposium on Recent Advances in Medicine Sep 14 2022

Selected Papers from the Eleventh International Symposium on Recent Advances in Drug Delivery Systems & CRS Winter Symposium Oct 11 2019

Special Issue on Recent Advances in the Design and Implementation of Signal Processing Systems Apr 09 2022

Structural Dynamics Jan 14 2020

Recent Advances in Technology Research and Education Feb 07 2022 This book presents selected contributions to the 16th International Conference on Global Research and Education Inter-Academia 2017 hosted by Alexandru Ioan Cuza University of Iași, Romania from 25 to 28 September 2017. It is the third volume in the series, following the editions from 2015 and 2016. Fundamental and applied research in natural sciences have led to crucial developments in the ongoing 4th global industrial revolution, in the course of which

information technology has become deeply embedded in industrial management, research and innovation – and just as deeply in education and everyday life. Materials science and nanotechnology, plasma and solid state physics, photonics, electrical and electronic engineering, robotics and metrology, signal processing, e-learning, intelligent and soft computing have long since been central research priorities for the Inter-Academia Community (I-AC) – a body comprising 14 universities and research institutes from Japan and Central/East-European countries that agreed, in 2002, to coordinate their research and education programs so as to better address today's challenges. The book is intended for use in academic, government, and industrial R&D departments as a reference tool in research and technology education. The 42 peer-reviewed papers were written by more than 119 leading scientists from 14 countries, most of them affiliated to the I-AC.

Recent Advances in Cancer Research and Therapy Aug 01 2021 Cancer continues to be one of the major causes of death throughout the developed world, which has led to increased research on effective treatments. Because of this, in the past decade, rapid progress in the field of cancer treatment has been seen. *Recent Advances in Cancer Research and Therapy* reviews in specific details some of the most effective and promising treatments developed in research centers worldwide. While referencing advances in traditional therapies and treatments such as chemotherapy, this book also highlights advances in biotherapy including research using Interferon and Super Interferon, HecI based and liposome based therapy, gene therapy, and p53 based cancer therapy. There is also a discussion of current cancer research in China including traditional Chinese medicine. Written by leading scientists in the field, this book provides an essential insight into the current state of cancer therapy and treatment. Includes a wide range of research areas including a focus on biotherapy and the development of novel cancer therapeutic strategies. Formatted for a broad audience including all working in researching cancer treatments and therapies. Discusses special traits and results of Chinese cancer research.

Recent Advances in Renewable Energy Technologies Nov 23 2020 *Recent Advances in Renewable Energy Technologies* is a comprehensive reference covering critical research, laboratory and industry developments on renewable energy technological, production, conversion, storage, and management, including solar energy systems (thermal and photovoltaic), wind energy, hydropower, geothermal energy, bioenergy and hydrogen production, and large-scale development of renewable energy technologies and their impact on the global economy and power capacity. Technological advancements include resources assessment and deployment, materials performance improvement, system optimization and sizing, instrumentation and control, modeling and simulation, regulations, and policies. Each modular chapter examines recent advances in specific renewable energy systems, providing theoretical and applied aspects of system optimization, control and management and supports them with global case studies demonstrating practical applications and economical and environmental aspects through life cycle analysis. The book is of interest to engineering graduates, researchers, professors and industry professionals involved in the renewable energy sector and advanced engineering courses dealing with renewable energy, sources, thermal and electrical energy production and sustainability. Focuses on the progress and research trends in solar, wind, biomass, and hydropower and geothermal energy production and conversion. • Includes advanced techniques for the distribution, management, optimization, and storage of heat and energy using case studies.

Recent Advances in Mechatronics Dec 25 2020 This book presents recent state of advances in mechatronics presented on the 7th International Conference Mechatronics 2007, hosted at the Faculty of Mechatronics, Warsaw University of Technology, Poland. The selected papers give an overview of the state-of-the-art and present new research results and prospects of the future development in this interdisciplinary field of mechatronic systems.

Fundamentals and Recent Advances in Nanocomposites Based on Polymers and Nanocellulose Jun 11 2022 *Fundamentals and Recent Advances in Nanocomposites Based on Polymers and Nanocellulose* brings together the latest research in cellulose-based nanocomposites, covering fundamentals, processing, properties, performance, applications, and the state of the art. The book begins by explaining the fundamentals of cellulose and cellulose-based nanocomposites, including sources, extraction, types, classification, linkages, model structure, model compounds, and characterization techniques. The second part of the book covers the incorporation of cellulose fillers to improve the properties or characteristics of nanocomposites, organized by composite category, including in aerogels, thermoplastic composites, thermoset composites, bioplastic composites, carbon nanofibers, rubber composites, carbon fibers, and foaming materials. Throughout these chapters, there is an emphasis on the latest innovations and application potential. Finally, applications are explored in more detail, notably focusing on the utilization of nanocellulose in biodegradable composites for biomedical applications, along with other important industrial application areas. This book is of great interest to researchers, scientists, and advanced students working with bio-based materials, and across polymer science, nanomaterials, composite materials, plastics engineering, chemical engineering, materials science and engineering, as well as R&D professionals, engineers, and industrialists interested in the development of bio-based materials for advanced applications or material commercialization. Presents the fundamentals of cellulose-based nanocomposites, including sources, extraction, types, classification, linkages, structure, compounds, and characterization. Discusses and analyzes the most suitable fabrication methods and processing techniques for cellulose as a reinforcement in a range of composites. Opens the door to a range of cutting-edge applications and considers key aspects such as cost, lifecycle, and biodegradability.

Recent Advances in Complex Functional Materials Jul 12 2022 In this book we explore new approaches to understanding the physical and chemical properties of emergent complex functional materials, revealing a close relationship between their structures and properties at the molecular level. The primary focus of this book is on the ability to synthesize materials

with a controlled chemical composition, a crystallographic structure, and a well-defined morphology. Special attention is also given to the interplay of theory, simulation and experimental results, in order to interconnect theoretical knowledge and experimental approaches, which can reveal new scientific and technological directions in several fields, expanding the versatility to yield a variety of new complex materials with desirable applications and functions. Some of the challenges and opportunities in this field are also discussed, targeting the development of new emergent complex functional materials with tailored properties to solve problems related to renewable energy, health, and environmental sustainability. A more fundamental understanding of the physical and chemical properties of new emergent complex functional materials is essential to achieving more substantial progress in a number of technological fields. With this goal in mind, the editors invited acknowledged specialists to contribute chapters covering a broad range of disciplines.

Proceedings of the First International Conference on Recent Advances in Concrete Technology Dec 13 2019

Recent Advances in Smart Self-Healing Polymers and Composites Jan 26 2021 There have been many new developments since the first edition of this book was published back in 2015. These can be summarized as follows: integration of multiple properties into self-healing polymer materials, such as the shape memory effect and flame retardancy; beyond self-healing and the development of recyclable thermoset polymers; and the application of self-healing polymers in both 3D and 4D printing. Recent Advances in Smart Self-healing Polymers and Composites, Second Edition provides a comprehensive introduction to the fascinating field of smart self-healing polymers and composites. All chapters are brought fully-up-to-date with the addition of six brand new contributions on the characterization of self-healing polymers, light-triggered self-healing, additive manufacturing, multifunctional thermoset polymers with self-healing ability, and recyclable thermoset polymers and 4D printing. It is written for a large readership including not only R&D researchers from diverse backgrounds such as chemistry, materials science, aerospace, physics, and biological science, but also for graduate student working on self-healing technologies as well as their newly developed applications. Features new chapters on characterization of self-healing polymers, light-triggered self-healing, additive manufacturing, multifunctional thermoset polymers with self-healing ability, recyclable thermoset polymers and 4D printing All chapters have been significantly updated from the previous edition Provides a grounding in all key areas of research to bring people up to speed with the latest developments

Recent Advances in Renewable Energy Technologies Nov 04 2021 Recent Advances in Renewable Energy Technologies is a comprehensive reference covering critical research, laboratory and industry developments on renewable energy technological, production, conversion, storage, and management, including solar energy systems (thermal and photovoltaic), wind energy, hydropower, geothermal energy, bioenergy and hydrogen production, and large-scale development of renewable energy technologies and their impact on the global economy and power capacity. Technological advancements include resources assessment and deployment, materials performance improvement, system optimization and sizing, instrumentation and control, modeling and simulation, regulations, and policies. Each modular chapter examines recent advances in specific renewable energy systems, providing theoretical and applied aspects of system optimization, control and management and supports them with global case studies demonstrating practical applications and economical and environmental aspects through life cycle analysis. The book is of interest to engineering graduates, researchers, professors and industry professionals involved in the renewable energy sector and advanced engineering courses dealing with renewable energy, sources, thermal and electrical energy production and sustainability. Focuses on the progress and research trends in solar, wind, biomass, and hydropower and geothermal energy production and conversion. • Includes advanced techniques for the distribution, management, optimization, and storage of heat and energy using case studies.

Symposium on Recent Advances in Surgery Mar 08 2022

Recent Advances in Histopathology: 24 Mar 28 2021 Recent Advances in Histopathology: 24 features a collection of in depth reviews of the latest developments in the field. Written in an accessible and easy to read format and featuring such topics as the implementation of digital histology, molecular pathology of pancreatic cancer and the big bang theory of tumour development: how cancers start, each chapter provides a comprehensive overview, and emphasises the salient points of interest. This latest volume in the series is an invaluable resource for busy clinicians and those sitting FRCPath examinations. Key Points 12 chapters summarising important recent advances within the field of Histopathology All topics are written in a practical and clinically relevant manner, further enhanced by the 'key clinical points for practice' sections at the end of each chapter Provides an effective exam revision tool for FRCPath(UK) All chapters written by expert authors ensuring authoritative and accurate content Full colour photographs throughout

Recent Advances in Gas Separation by Microporous Ceramic Membranes Feb 24 2021 This book is dedicated to the rapidly growing field of microporous ceramic membranes with separating layers of pore diameter less than 2nm. The chapters of this book bring forward a wide range of issues, namely fundamentals of complex sorption and transport processes in micropore structures, highly innovative methods of preparation of microporous membranes and examples of their possible commercial applications. This book presents insights by distinguished investigators, who have contributed significantly to the advance of research efforts in the diverse topics described herein. Recently, significant progress has been made with respect to the development of novel microporous asymmetric membranes, mainly involving modification by means of deposition of additional material within the pores of the substrates. Most state-of-the-art technologies aiming in the development of microporous ceramic membrane are presented in the third section of the book. These include several material deposition methods and techniques on macroporous or mesoporous supports and substrates from the liquid or vapour phase, namely those involving sol-gel, zeolite and

chemical vapour deposition techniques. In addition to the above-mentioned methods, the classical technique of carbonizing polymeric deposits along with one of the novel techniques of plasma-treating, organically deposited Langmuir-Blodgett films, are also presented. Nanophase mixed ionic-electron membranes for enhanced oxygen transport are described, which pose a strong candidacy for a number of significant commercial applications.

Recent Advances in Nutrigenetics and Nutrigenomics May 10 2022 Recent Advances in Nutrigenetics and Nutrigenomics.

Recent Advances in Clinical Psychiatry Sep 21 2020

Recent Advances in Natural Products Analysis Dec 17 2022 *Recent Advances in Natural Products Analysis* is a thorough guide to the latest analytical methods used for identifying and studying bioactive phytochemicals and other natural products. Chemical compounds, such as flavonoids, alkaloids, carotenoids and saponins are examined, highlighting the many techniques for studying their properties. Each chapter is devoted to a compound category, beginning with the underlying chemical properties of the main components followed by techniques of extraction, purification and fractionation, and then techniques of identification and quantification. Biological activities, possible interactions, levels found in plants, the effects of processing, and current and potential industrial applications are also included. Focuses on the latest analytical techniques used for studying phytochemical and other biological compounds Authored and edited by the top worldwide experts in their field Discusses the current and potential applications and predicts future trends of each compound group

27th Annual Conference on Recent Advances in Flame Retardancy of Polymeric Materials (Flame 2016) Feb 13 2020

RASD2019 Jun 30 2021

Cardiac Surgery Dec 05 2021 Highly Commended, BMA Medical Book Awards 2014 The development of new techniques as well as the refinement of established procedures has led to great progress in cardiac surgery. Providing an ideal synopsis of the growth in this area, *Cardiac Surgery: Recent Advances and Techniques* systematically reviews all the new developments in cardiac surgery,

Recent Advances in Medicinal Chemistry Nov 16 2022 Originally published by Bentham and now distributed by Elsevier, *Recent Advances in Medicinal Chemistry, Volume 1* covers leading-edge research and recent developments in rational drug design, synthetic chemistry, bioorganic chemistry, high-throughput screening, combinatorial chemistry, drug targets, and natural product research and structure-activity relationship studies. The fourteen updated reviews include unique experimental data and references, and each article highlights an important topic in current medicinal chemistry research. Topics covered include: aureolic acid group of anti-cancer antibiotics and non-steroidal anti-inflammatory drugs; aromatase inhibitors in adjuvant endocrine treatment of early-stage breast cancer in postmenopausal women; Rho GTPases and statins in targeting and developing therapies for tumors; and more. Edited and written by leading experts in medicinal chemistry research Reviews recent advances in the field, including the characterization of inorganic nanomaterials as therapeutic vehicles Covers a variety of topical areas, such as HPLC and in the analysis of tricyclic antidepressants in biological samples, and tannins and their influence on health

Proceedings of the 7. International Symposium on Recent Advances in Drug Delivery Systems May 18 2020

Recent Advances in Network Simulation Sep 02 2021 This book provides a comprehensive introduction to the OMNeT++ simulation environment and an overview of its ecosystem of ever-growing frameworks, which provide simulation models for diverse communication systems, protocols, and standards. The book covers the most recent advances of the three key points in the OMNeT++ environment: (1) The latest features that are being added to OMNeT++ itself, including improvements in the visualization options, in data processing, etc. (2) A comprehensive description of the current state of development and the work in progress of the main simulation frameworks, covering several aspects of communication such as vehicular, cellular, and sensor networks. (3) The latest advances and novel developments coming from a large research community. The presentation is guided through use cases and examples, always keeping in mind the practical and research purposes of the simulation process. Includes an introduction to the OMNeT++ simulation framework and its main features; Gives a comprehensive overview of ongoing research topics that exploits OMNeT++ as the simulation environment; Provides examples and uses cases focusing on the practical aspects of simulation.

Recent Advances in Intelligent Systems and Smart Applications Apr 28 2021 This book explores the latest research trends in intelligent systems and smart applications. It presents high-quality empirical and review studies focusing on various topics, including information systems and software engineering, knowledge management, technology in education, emerging technologies, and social networks. It provides insights into the theoretical and practical aspects of intelligent systems and smart applications.

Recent Advances and Trends in Nonparametric Statistics Oct 03 2021 The advent of high-speed, affordable computers in the last two decades has given a new boost to the nonparametric way of thinking. Classical nonparametric procedures, such as function smoothing, suddenly lost their abstract flavour as they became practically implementable. In addition, many previously unthinkable possibilities became mainstream; prime examples include the bootstrap and resampling methods, wavelets and nonlinear smoothers, graphical methods, data mining, bioinformatics, as well as the more recent algorithmic approaches such as bagging and boosting. This volume is a collection of short articles - most of which having a review component - describing the state-of-the art of Nonparametric Statistics at the beginning of a new millennium. Key features: • algorithmic approaches • wavelets and

nonlinear smoothers • graphical methods and data mining • biostatistics and bioinformatics • bagging and boosting • support vector machines • resampling methods

[Symposium on Recent Advances in Surgery of the Gastrointestinal Tract Apr 16 2020](#)

Recent Advances in Thermochemical Conversion of Biomass Aug 21 2020 This book provides general information and data on one of the most promising renewable energy sources: biomass for its thermochemical conversion. During the last few years, there has been increasing focus on developing the processes and technologies for the conversion of biomass to liquid and gaseous fuels and chemicals, in particular to develop low-cost technologies. This book provides date-based scientific information on the most advanced and innovative processing of biomass as well as the process development elements on thermochemical processing of biomass for the production of biofuels and bio-products on (biomass-based biorefinery). The conversion of biomass to biofuels and other value-added products on the principle biorefinery offers potential from technological perspectives as alternate energy. The book covers intensive R&D and technological developments done during the last few years in the area of renewable energy utilizing biomass as feedstock and will be highly beneficial for the researchers, scientists and engineers working in the area of biomass-biofuels- biorefinery. Provides the most advanced and innovative thermochemical conversion technology for biomass Provides information on large scales such as thermochemical biorefinery Useful for researchers intending to study scale up Serves as both a textbook for graduate students and a reference book for researchers Provides information on integration of process and technology on thermochemical conversion of biomass

Recent Advances in Autism Spectrum Disorders Jun 18 2020 The pace of research on Autism Spectrum Disorders (ASD) has expanded exponentially in recent years. It is difficult for anyone to keep up with all developments. This book will assist the experienced and non-specialist reader to keep up with recent developments. The book opens with a focus on the evolutionary aspects of autism and then focuses on the public's attitude towards autism including the stigma issue. Then there is a focus on cortical modularity and electrophysiology followed by treatment issues including sensory, medical and community-based interventions. Finally, forensic issues are dealt with and the importance of the built environment is focused on. The book will be relevant to psychiatrists, psychologists, paediatricians, social workers, speech and language therapists, occupational therapists and care workers.

Recent Advances in Graphene Research May 30 2021 This book "Recent Advances in Graphene Research" provides a state-of-the-art report of the knowledge accumulated in graphene research. It contains 12 chapters divided into three sections. Section 1 "Fundamentals of Graphene" deals with quantum hall effect in graphene, electronic properties of carbon nanostructures and spectral statistics of graphene nanoflakes. In Section 2 "Graphene Synthesis," the optimized synthesis procedures of graphene and its derivatives are presented. The application of graphene and its nanostructured-based materials for energy storage, conservation and other extensive applications are described in Section 3 "Application of Graphene and its Nanostructures". We believe that this book offers broader prospective to the readers in the recent advances in graphene research, starting from fundamental science to application.

Recent Advances in Laser Processing of Materials Aug 13 2022 Laser materials interaction and processing is an established and growing field within the materials science community. By taking a detailed look at the fundamentals of laser matter interaction, Recent Advances in Laser Processing of Materials charts the recent progress of laser materials interaction and processing in various emerging materials science domains. With special emphasis placed on nanostructures and future developments, this book provides an interdisciplinary support for basic and applied photo-assisted processing research. Coverage includes: laser assisted synthesis of new materials (nanoparticles, nanotubes, active molecules, new phases...) laser assisted surface transformation (nanostructuring, lithography, etching...) laser assisted bulk material transformation (doping, marking, crystallisation...) Laser assisted synthesis of new materials (nanoparticles, nanotubes, active molecules, new phases...) Laser assisted surface transformation (nanostructuring, lithography, etching...) Laser assisted bulk material transformation (doping, marking, crystallisation...)

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