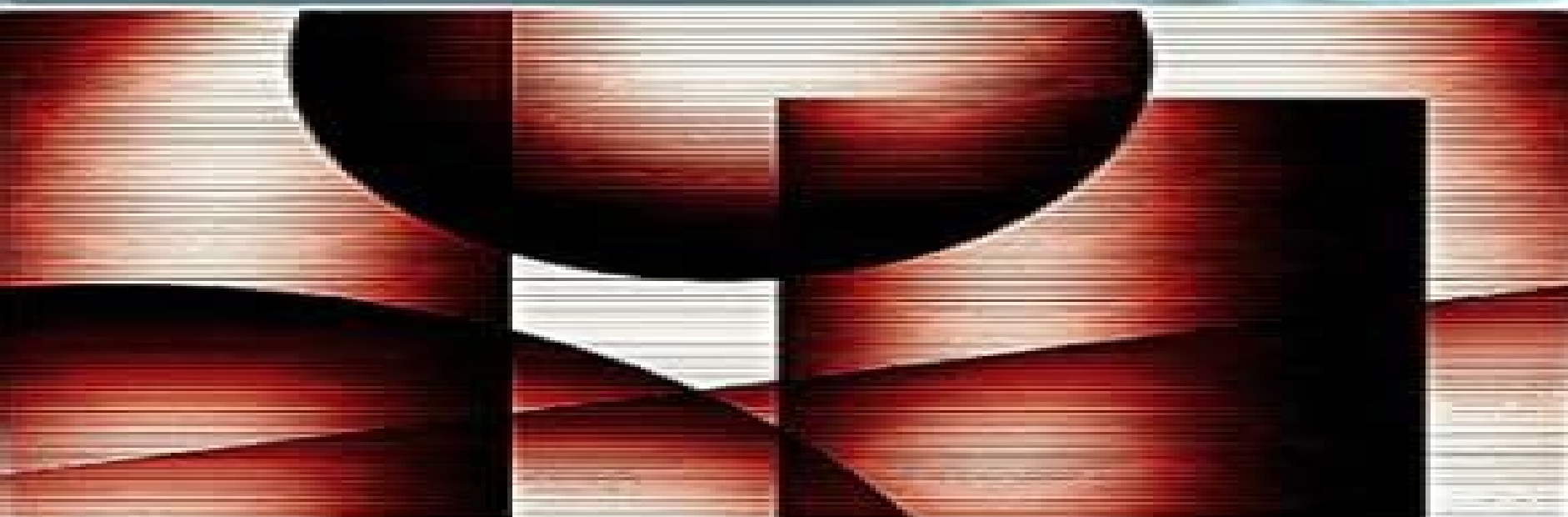




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FUNCTIONAL MATERIALS

PREPARATION, PROCESSING AND
APPLICATIONS

Edited by
S. BANERJEE • A. K. TYAGI

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Functional Materials S. Banerjee,A.K. Tyagi,2011-12-12 Functional materials have assumed a very prominent position in several high tech areas Such materials are not being classified on the basis of their origin nature of bonding or processing techniques but are classified on the basis of the functions they can perform This is a significant departure from the earlier schemes in which materials were described as metals alloys ceramics polymers glass materials etc Several new processing techniques have also evolved in the recent past Because of the diversity of materials and their functions it has become extremely difficult to obtain information from single source Functional Materials Preparation Processing and Applications provides a comprehensive review of the latest developments Serves as a ready reference for Chemistry Physics and Materials Science researchers by covering a wide range of functional materials in one book Aids in the design of new materials by emphasizing structure or microstructure property correlation Covers the processing of functional materials in detail which helps in conceptualizing the applications of them

Functional Materials S. Banerjee,A. K. Tyagi,2011-12-09 Functional materials have assumed a very prominent position in several high tech areas Such materials are not being classified on the basis of their origin nature of bonding or processing techniques but are classified on the basis of the functions they can perform This is a significant departure from the earlier schemes in which materials were described as metals alloys ceramics polymers glass materials etc Several new processing techniques have also evolved in the recent past Because of the diversity of materials and their functions it has become extremely difficult to obtain information from single source Functional Materials Preparation Processing and Applications provides a comprehensive review of the latest developments Serves as a ready reference for Chemistry Physics and Materials Science researchers by covering a wide range of functional materials in one book Aids in the design of new materials by emphasizing structure or microstructure property correlation Covers the processing of functional materials in detail which helps in conceptualizing the applications of them

[Handbook of Smart Photocatalytic Materials](#) Chaudhery Mustansar Hussain,Ajay Kumar Mishra,2020-02-06 Handbook of Smart Photocatalytic Materials Environment Energy Emerging Applications and Sustainability provides an intriguing and useful guide to catalysis and materials The handbook covers applications of smart photocatalytic materials for energy environmental protection and emerging fields Also covered is the safety risk of Smart Photocatalytic Materials commercialization their fate and transportation in the environment and sustainability This volume provides a valuable roadmap outlining common principles behind their use Every chapter of this volume presents state of the art knowledge on sustainable practices of smart photocatalytic materials SPMs including concepts of theory and practice This handbook is a valued reference for both the academic and industrial researchers looking for recent developments in the field Covers all aspects of recent developments in Environmental Energy and Emerging applications of Smart Photocatalytic Materials Focuses on advanced applications and future research advancements of Smart Photocatalytic Materials Emphasizes the sustainability aspect of Smart

Photocatalytic Materials Presents a valuable reference for researchers and students that stimulates interest in designing smart materials *Advances in Synthesis Gas: Methods, Technologies and Applications* Mohammad Reza Rahimpour, Mohammad Amin Makarem, Maryam Meshksar, 2022-10-22 *Advances in Synthesis Gas Methods Technologies and Applications* Syngas Purification and Separation considers different common and novel processes for the purification of produced syngas such as absorption adsorption membrane cryogenic distillation and particulate separation technologies in addition to thermal and oxidative processes for tar removal The role of various catalysts or materials in absorption adsorption and membrane processes are discussed in separate chapters to address each in more detail Introduces various adsorption and absorption techniques for purifying syngas Describes syngas purification by various membranes Discusses novel technologies for syngas purification *Nanocellulose: A Multipurpose Advanced Functional Material* Guang Yang, Muhammad Wajid Ullah, Orlando Rojas, Ronan McCarthy, 2021-11-18 Drs Ullah and Yang hold patents related to cellulose material All other Topic Editors declare no competing interests with regard to the Research Topic subject This Research Topic is dedicated to Prof Lina Zhang on the occasion of her 80th Birthday in gratitude esteem and affection

Surface Science and Advanced Functional Applications of Cellulose Composites Ming-Guo Ma, Xing-Xiang Ji, 2024-11-16 *Surface Science and Advanced Functional Applications of Cellulose Composites* Volume 38 looks at cellulose composites in relation to surface science and applications The book provides a comprehensive summary grounded in the surface chemistry and polymer physics of cellulose composites while also enabling readers to understand their history status and commercial challenges and future potential using a range of case studies and examples Other sections explore the applications of biomedical antibacterial water treatment flexible electronic devices energy storage and sensing and review recent developments problems and potential developmental directions of cellulose composites This book will appeal to chemists chemical engineers and materials scientists engaged in biomass cellulose nanocellulose composites surface science and related applied biomedical antibacterial water treatment flexible electronic device and energy storage fields Provides a comprehensive summary grounded in the surface chemistry and polymer physics of cellulose composites Covers the development history status and commercial challenges Explores applications in biomedical antibacterial water treatment flexible electronic devices energy storage and sensing Utilizes a range of case studies and useful examples Includes a forward looking emphasis on the sustainability of cellulose derived materials *Biopolymers and Their Industrial Applications* Sabu Thomas, Sreeraj Gopi, Augustine Amalraj, 2020-10-31 *Biopolymers and Their Industrial Applications* From Plant Animal and Marine Sources to Functional Products is a detailed guide to the use of biopolymers for advanced applications across a range of key industries In terms of processing and cost bio based polymers are becoming increasingly viable for an ever broadening range of novel industrial applications The book begins with an overview of biopolymers explaining resources demands sustainability life cycle assessment LCA modeling and simulation and classifications Further in

depth chapters explore the latest techniques and methodologies for isolation and physicochemical characterization materials selection and processing for blends and composites Chapters 6 to 14 each focus on the preparation and applications of biopolymers in a specific industrial area including food science and nutraceuticals medicine and pharmaceuticals textiles cosmeceutical packaging adhesives and automotive 3D printing super capacitor and energy storage devices and environmental applications The final chapter compares and analyzes biopolymers alongside synthetic polymers also offering valuable insight into social economic and environmental aspects This is an essential resource for those seeking to understand research or utilize biopolymers in industrial applications This includes researchers scientists and advanced students working in biopolymers polymer science polymer chemistry biomaterials materials science nanotechnology composites and biotechnology This is a highly valuable book for scientists R D professionals designers and engineers across multiple industries and disciplines who are looking to utilize biopolymers for components and products Introduces a broad range of industrial application areas including food medicine textiles cosmetics packaging automotive 3D printing energy and more Offers an industry oriented approach addressing challenges and explaining the preparation and application of biopolymers for functional products and parts Considers important factors such as resources classification sustainability and life cycle assessment LCA modeling and simulation Compares and analyzes biopolymers alongside synthetic polymers also offering valuable insight into social economic and environmental aspects

Recent Advances in Nano-Tailored Multi-Functional Cementitious Composites Mustafa Şahmaran, Faiz Shaikh, Gürkan Yıldırım, 2022-03-08 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 geopolymers 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

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Handbook of Thermosetting Foams, Aerogels, and Hydrogels
Prasanth Raghavan,M.S. Sreekala,Lakshmipriya Ravindran,Ankitha Menon,2024-06-05 Handbook of Thermosetting Foams Aerogels and Hydrogels From Fundamentals to Advanced Applications presents the latest on the preparation characterization properties and applications of thermoset foams aerogels and hydrogels The book begins by introducing each of these concepts and their characteristics current applications potential for further development and environmental impacts This is followed by three sections each focusing on foams aerogels and hydrogels developed from a specific thermosetting polymer category covering polyurethane epoxy resins and formaldehyde In each section detailed coverage includes preparation structure characterization properties processing and applications based on material along with key challenges in design processing implementation and solutions This is a valuable resource for researchers and advanced students with an interest in thermoset lightweight materials across the disciplines of polymer science chemistry nanotechnology materials science and engineering The book will also be of interest to R D professionals engineers and scientists working with foams hydrogels and aerogels for a range of applications and industries Provides methodical coverage of polyurethane epoxy and formaldehyde based foams aerogels and hydrogels Explores a range of high value applications across automotive and aerospace defense biomedicine and other areas Considers challenges in design processing and implementation and

environmental aspects such as biodegradability and recyclability Sustainable Materials for Food Packaging and Preservation Tabli Ghosh, Ruchir Priyadarshi, Swarup Roy, 2024-09-20 Sustainable Materials for Food Packaging and Preservation Food Security and Sustainability discusses the recent trends and development of bio based sustainable materials focusing on their fabrication and application in food packaging and food preservation This book brings together fundamental information and the most recent advances in the characterization processing and modification of sustainable materials and their impact on food packaging and storage of food products for improving their shelf life Special attention is given to smart active and edible packaging and the utilization of nanoemulsion and nanoencapsulation in the food industry is also discussed In addition the book reviews the use of proteins polysaccharides and microbial and chemically derived materials for food preservation Discusses recent trends and advancements in the applications of sustainable materials in food packaging and preservation providing an overview of various sustainable materials such as agro based and microbial and chemically derived materials Covers fabrication techniques characterization and processing of various sustainable materials used for food packaging and preservation Includes a thorough discussion of the current sustainable solutions for extending the shelf life of food products in the packaging process Photochemistry Stefano Crespi, Stefano Protti, 2021-09-20 Providing critical analysis of emerging and well established topics this book is essential reading for anyone wanting to keep up to date with the literature on photochemistry and its applications Volume 49 combines reviews on the latest advances in photochemical research with specific highlights in the field The first section includes periodical reports of the recent literature on physical and inorganic aspects including reviews of the molecules employed as dyes in art light induced reactions in cryogenic matrices photobiological systems studied by time resolved infrared spectroscopy and photophysics and photochemistry of transition metal complexes This selection is completed by reviews of the literature on solar photocatalysis for water decontamination and disinfection and for water splitting hydrogen production Coverage continues in the second part with highlighted topics from the use of aromatic carbonyls as photocatalysts and photoinitiators in synthesis photoinduced and photocatalysed decarboxylation reactions development of dye sensitized solar cells design of luminescent water soluble systems and applications of plasmonic nanoparticles This volume also includes a third section entitled SPR Lectures on Photochemistry where leading scientists in photochemistry provide examples to introduce a photochemical topic to academic readers offering precious assistance to students in this field *Chitosan-Based Hybrid Nanomaterials* Nisar Ali, Muhammad Bilal, Adnan Khan, Tuan Anh Nguyen, 2024-03-06 Chitosan based hybrid nanomaterials for environmental remediation focuses on chitosan an abundantly occurring biopolymer to present possibilities for the removal of contaminants and a greener approach towards a cleaner environment combining nanotechnology with the deployment of naturally occurring materials to remedy environmental challenges This book fills up research gaps and the knowledge lagging in the context of chitosan based nanomaterials Considering the importance of naturally occurring materials with the applied

knowledge of nanotechnology in the field of environmental restoration Covers properties synthesis and characterization of chitosan nanostructures and their utilization in the removal of contaminants Highlights the latest developments on the utilization of chitosan in environmental restoration Summarizes the importance of chitosan nanostructures for several applications

Biochar for Environmental Remediation Willis Gwenzi, 2025-01-31 Biochar for Environmental Remediation Principles Applications and Prospects synthesizes state of the art knowledge on biochar based systems for environmental remediation This book examines a wide variety of biochar applications for the remediation of inorganic organic microbial and emerging contaminants in various environmental media including drinking water industrial wastewater urban stormwater industrial and indoor air pollution and contaminated lands and soils An increasing body of evidence shows that biochars have potential applications in environmental remediation of contaminants in soils aqueous systems and air pollution control This book uses a systematic approach covering biochar preparation properties and characteristics removal mechanisms industrial applications regeneration and disposal of spent biochar life cycle analysis and environmental and human health risks Researchers engineers and graduate students will find this to be a valuable reference for understanding opportunities for the use of biochar in environmental remediation as it fills the gaps in existing literature and offers a clear roadmap to guide future research Addresses the whole biochar cycle from preparation principles of application industrial application domains regeneration recycling and final disposal life cycle analysis and environmental and human health risks Covers a broad range of inorganic organic microbial and emerging contaminants providing a one stop source of biochar information Presents applications of biochar in the remediation of diverse environmental media including drinking water industrial wastewater urban stormwater acid mine drainage contaminated lands and soils and industrial and indoor air pollution control

Luminescent Metal Oxides S.V. Moharil, N.S. Bajaj, P.K. Tawalare, 2023-11-16 The focus of the book is to explore metal oxides exhibiting a high optical transmittance as applicable in the field of light emitting diodes LEDs photo catalysts and so forth It provides exposure to structural and chemical parameters of optically active metal oxides as a phosphor innovative and currently demanded synthesis methods and their proper characterization It further covers applications such as optical thermometry scintillation anti counterfeit solid state lighting and spectral modifier for solar cells VUV application and long persistent light emission phenomenon Features Reviews selection of structurally and functionally active materials for effective synthesis of metal oxides Exclusively covers large number of areas of applications of the luminescent metal oxides Cover various aspects of metal oxide research including synthesis and applications Includes chapters on synthesis related predictions using machine learning Discusses radiation dosimetry and bio imaging aspects This book is aimed at researchers and graduate students in materials science and phosphor technology

Analytical Applications of Graphene Oxide, 2024-06-27 Analytical Applications of Graphene Oxide Volume 106 in the Comprehensive Analytical Chemistry series presents timely topics in this area of study Chapters in this new release include 2 Surface

Modifications of Graphene Oxide Nanomaterials for Analytical Applications Analytical techniques for the characterization of graphene oxide Perspectives of graphene oxide in separation science Features of graphene oxide based membranes in water purification Graphene oxide nanocomposites for the removal of inorganic species Graphene oxide nanocomposites as promising adsorbents for removal of organic pollutants Graphene oxide based metal nanocomposites for colorimetric sensing applications Graphene oxide based fluorescence analytical methods for bioassays and much more Additional sections delve into Graphene oxide in molecular biology approaches for nucleic acid detection Analytical applications of graphene oxide based hydrogels Magnetic graphene oxide in analytical science Applications of Magnetic graphene oxide in water decontamination Graphene oxide nanocomposites in electroanalytical tools for assaying of organic and biomolecules Graphene oxide in electroanalytical tools for the detection of inorganic species and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Comprehensive Analytical Chemistry series Updated release includes the latest information on Analytical Applications of Graphene Oxide

Quality Control and Evaluation of Herbal Drugs Pulok K. Mukherjee, 2019-05-30 *Quality Control and Evaluation of Herbal Drugs* brings together current thinking and practices for evaluation of natural products and traditional medicines The use of herbal medicine in therapeutics is on the rise in both developed and developing countries and this book facilitates the necessary development of quality standards for these medicines This book elucidates on various challenges and opportunities for quality evaluation of herbal drugs with several integrated approaches including metabolomics chemoprofiling marker analysis stability testing good practices for manufacturing clinical aspects Ethnopharmacology and Ethnomedicine inspired drug development Written by Prof Pulok K Mukherjee a leader in this field the book highlights on various methods techniques and approaches for evaluating the purity quality safety and efficacy of herbal drugs Particular attention is paid to methods that assess these drugs activity the compounds responsible and their underlying mechanisms of action The book describes the quality control parameters followed in India and other countries including Japan China Bangladesh and other Asian countries as well as the regulatory profiles of the European Union and North America This book will be useful in bio prospecting of natural products and traditional medicine inspired drug discovery and development Provides new information on the research and development of natural remedies essential reading on the study and use of natural resources for preventative or healing purposes Brings together current thinking and practices in quality control and standardization of herbal drugs highlighting several integrated approaches for metabolomics chemo profiling and marker analysis Aids in developing knowledge of various techniques including macroscopy microscopy HPTLC HPLC LC MS MS GC MS etc with the development of integrated methods for evaluation of botanicals used in traditional medicine Assessment of herbal drugs through bio analytical techniques bioassay guided isolation enzyme inhibition pharmacological microbiological antiviral assays and safety related quality issues References global organizations such as the WHO USFDA CDSCO AYUSH TCM and

others to serve as a comprehensive document for enforcement agencies NGOs and regulatory authorities Comprehensive Semiconductor Science and Technology, 2011-01-28 Semiconductors are at the heart of modern living Almost everything we do be it work travel communication or entertainment all depend on some feature of semiconductor technology

Comprehensive Semiconductor Science and Technology Six Volume Set captures the breadth of this important field and presents it in a single source to the large audience who study make and exploit semiconductors Previous attempts at this achievement have been abbreviated and have omitted important topics Written and Edited by a truly international team of experts this work delivers an objective yet cohesive global review of the semiconductor world The work is divided into three sections The first section is concerned with the fundamental physics of semiconductors showing how the electronic features and the lattice dynamics change drastically when systems vary from bulk to a low dimensional structure and further to a nanometer size Throughout this section there is an emphasis on the full understanding of the underlying physics The second section deals largely with the transformation of the conceptual framework of solid state physics into devices and systems which require the growth of extremely high purity nearly defect free bulk and epitaxial materials The last section is devoted to exploitation of the knowledge described in the previous sections to highlight the spectrum of devices we see all around us Provides a comprehensive global picture of the semiconductor world Each of the work s three sections presents a complete description of one aspect of the whole Written and Edited by a truly international team of experts **Bio-Based**

Nanoemulsions for Agri-Food Applications Kamel A. Abd-Elsalam, Kasi Murugan, 2022-08-04 Recent agricultural food and pharmaceutical research focuses attention on the development of delivery systems that can encapsulate protect and deliver natural compounds Nanoemulsions are recognized as the best delivery systems for natural origin nutraceuticals and phytochemicals having many agri food applications Bio based Nanoemulsions for Agri Food Applications provides information on food grade nanoemulsions and their application in agriculture and the food industry This book covers concepts techniques current advances and challenges in the formulation of the application of emerging food grade nanoemulsions Particular attention is placed on food grade nanoemulsion production methods and components used such as plant microbial products biosurfactants cosurfactants emulsifiers ligand targets and bioactive functional ingredients This is an important reference source for materials scientists engineers and food scientists who are looking to understand how nanoemulsions are being used in the agri food sector Provides an overview of a range of bio based nanoemulsions used in the agrifood sector Explores how nanotechnology improves the properties of bio based emulsions Assesses the major challenges of manufacturing nanoemulsions at an industrial scale *Nanoformulations for Agricultural Applications* Radhakrishnan Edayileveetil Krishnankutty, Aswani R., Visakh P. M., 2025-02-11 This book is a comprehensive guide to nanoformulations revolutionizing agriculture enhancing sustainability and advancing agrochemical applications This book examines state of the art research emerging challenges and new opportunities in the field of nanoformulations for agriculture applications Detailed discussions

include the development and use of nanopesticides nanoformulations for promoting plant growth and nanotechnology for effective crop disease management Furthermore it covers recent trends in the design and production of nano based formulations and nanocarriers for the efficient delivery of agrochemicals The book is divided into three sections The first section introduces readers to agricultural applications and methods for nanoparticle synthesis their applications and types of biomasses It examines the benefits of agriculture and the role of nanotechnology in the agriculture sector The second section focuses on nanoformulations for plant growth promotion It covers topics on types of nanoparticles synthesis methods of nanoparticles and applications of nanoparticles in the agricultural field The third section discusses trends various other applications and the benefits of using nanocarriers in agriculture Audience This book is aimed at researchers engineers and scientists working in agrochemicals crops soil biotechnology chemistry microbiology nano chemistry technology materials formulations in agriculture applications

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