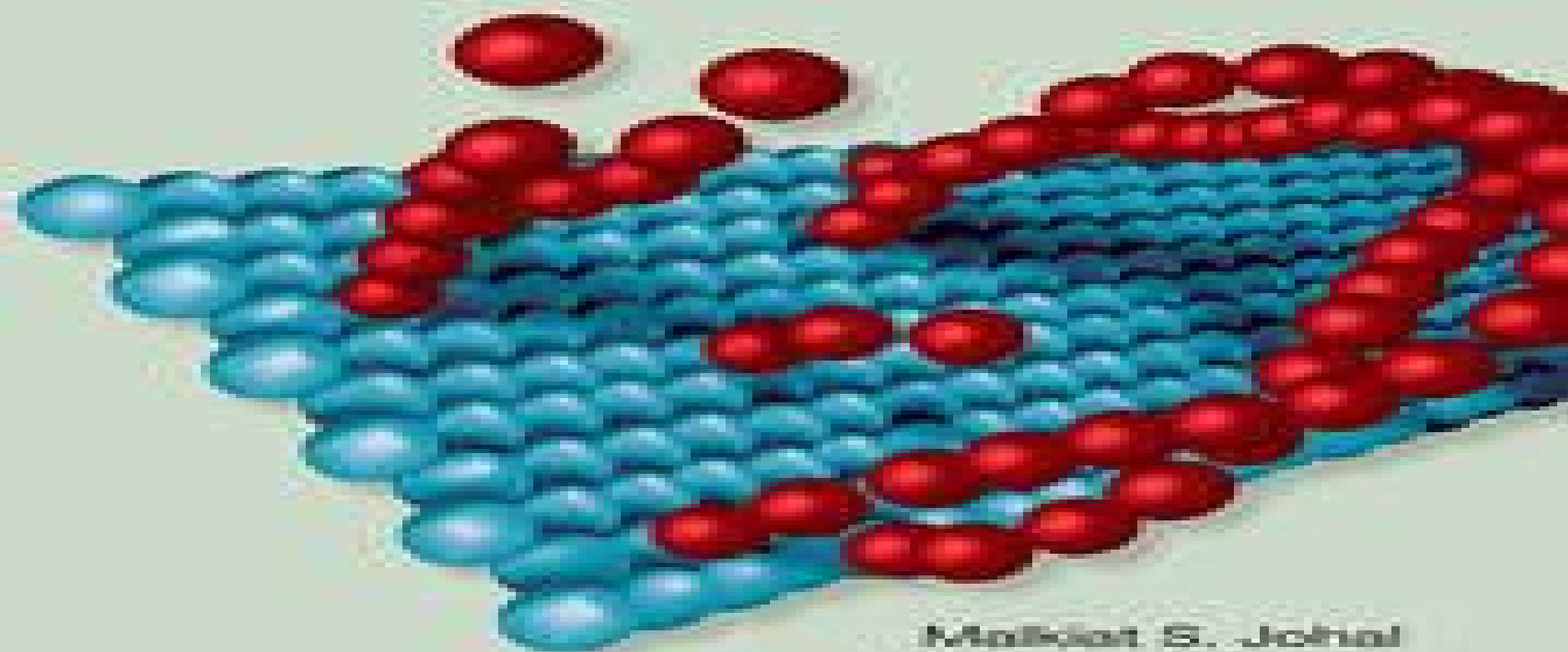


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Lewis E. Johnson

Understanding Nanomaterials

Malkiat S. Johal, Lewis E. Johnson



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Nanomaterials and Plant Potential Azamal Husen, Muhammad Iqbal, 2019-03-01 This book discusses the latest developments in plant mediated fabrication of metal and metal oxide nanoparticles and their characterization by using a variety of modern techniques It explores in detail the application of nanoparticles in drug delivery cancer treatment catalysis and as antimicrobial agent antioxidant and the promoter of plant production and protection Application of these nanoparticles in plant systems has started only recently and information is still scanty about their possible effects on plant growth and development Accumulation and translocation of nanoparticles in plants and the consequent growth response and stress modulation are not well understood Plants exposed to these particles exhibit both positive and negative effects depending on the concentration size and shape of the nanoparticles The impact on plant growth and yield is often positive at lower concentrations and negative at higher ones Exposure to some nanoparticles may improve the free radical scavenging potential and antioxidant

enzymatic activities in plants and alter the micro RNAs expression that regulate the different morphological physiological and metabolic processes in plant system leading to improved plant growth and yields The nanoparticles also carry out genetic reforms by efficient transfer of DNA or complete plastid genome into the respective plant genome due to their miniscule size and improved site specific penetration Moreover controlled application of nanomaterials in the form of nanofertilizer offers a more synchronized nutrient fluidity with the uptake by the plant exposed ensuring an increased nutrient availability This book addresses these issues and many more It covers fabrication of different specific nanomaterials and their wide range application in agriculture sector encompassing the controlled release of nutrients nutrient use efficiency genetic exchange production of secondary metabolites defense mechanisms and the growth and productivity of plants exposed to different manufactured nanomaterials The role of nanofertilizers and nano biosensors for improving plant production and protection and the possible toxicities caused by certain nanomaterials the aspects that are little explored by now have also been generously elucidated Innovations in Nanomaterials-Based Corrosion Inhibitors Thakur,

Abhinay,Kumar, Ashish,2024-07-22 As industries strive for greater efficiency and longevity in their metal infrastructure corrosion remains a persistent and costly adversary Traditional corrosion inhibitors often fail to provide long term protection leading to significant economic losses and environmental harm Innovations in Nanomaterials Based Corrosion Inhibitors delves into a thorough exploration of the rapidly evolving field of nanomaterials and their pivotal role in corrosion inhibition This comprehensive guide offers a transformative solution utilizing the power of nanotechnology to combat corrosion with unparalleled effectiveness Within the pages of this book lies a wealth of knowledge meticulously curated to address the pressing need for advanced corrosion inhibition strategies From understanding the fundamental principles of corrosion to exploring the innovative applications of nanomaterials it equips readers with the tools to revolutionize their approach to metal protection With a precise analysis of the synthesis characterization and practical implementation of diverse nanomaterials encompassing nanoparticles nanocomposites and nanostructured coatings and a primary focus on safeguarding metal surfaces against corrosion this book creates the much needed reference for shaping the future of corrosion inhibitors Innovations in Nanomaterials Based Corrosion Inhibitors offers a roadmap to overcoming corrosion challenges and heralding a new era of sustainability and cost effectiveness By embracing nanotechnology industries can enhance the durability of their metal infrastructure while minimizing environmental impact and maximizing economic efficiency Handbook of Nanomaterials in Analytical Chemistry Chaudhery Mustansar Hussain,2019-10-22 Handbook of

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Nanomaterials: Fundamentals and Advances Dr. Subash Chandra Sahu, 2024-12-17 This book *Nanomaterials Fundamentals Synthesis and Applications* offers an in depth exploration of nanomaterials covering their properties synthesis methods applications and associated challenges It begins by providing a foundational understanding of nanomaterials including their historical development and unique characteristics before progressing into more advanced topics such as their role in electronics energy and biomedical fields The book introduces nanomaterials by defining and classifying them giving an overview of their development over time and the main types available today In some chapters the book includes into the synthesis and characterization of nanomaterials respectively presenting key methods used to create and analyze nanomaterials at the atomic level These chapters highlight both traditional techniques and recent advances giving readers an up to date understanding of current practices in nanotechnology In subsequent chapters the book examines the role of nanomaterials in various applications electronics energy environment and biomedicine Each of these chapters highlights how nanomaterials are being used to innovate in these sectors and what future advancements may arise Finally the book addresses important considerations surrounding safety ethics and societal impact before concluding with a discussion of future trends and challenges This text is an essential resource for anyone interested in the cutting edge world of nanomaterials and their potential to transform the future

Nanomaterials Nandakumar Kalarikkal, Sabu Thomas, Obey Koshy, 2018-05-20 This new book focuses on recent developments in this field focusing on nanostructured materials and nanocomposites The book deals with some recent developments in the synthesis and characterization of nanomaterial as well as its incorporation into polymer matrixes The biological applications of nanomaterials are also discussed in detail along with new approaches in nanostructured materials and nanocomposites Highlights include a detailed discussion on synthesis of nanostructured materials and nanocomposites reviews of biodiesel production green nanostructured materials and nanosensors nanomedicines and biomedical applications of nanostructured materials

Nanomaterials and Their Interactive Behavior with Biomolecules, Cells and Tissues Yogendrakumar H. Lahir, Pramod Avti, 2020-08-04 Nanoscience is a multidisciplinary area of science which enables researchers to create tools that help in understanding the mechanisms related to the interactions between nanomaterials and biomolecules nanotechnology Nanomaterials represent nanotechnology products These products have an enormous impact

on technical industries and the quality of human life Nanomaterials directly or indirectly have to interact with biosystems It is therefore essential to understand the beneficial and harmful interactions of nanomaterials with and within a biosystem especially with reference to humans This book provides primary and advanced information concerning the interactions between nanomaterials and the components of a typical biosystem to readers Chapters in the book cover in a topic based approach the many facets of nanomolecular interactions with biological molecules and systems that influence their behavior bioavailability and biocompatibility including nucleic acids cell membranes tissues enzymes and antibodies A note on the applications of nanomaterials is also presented in the conclusion of the book to illustrate the usefulness of this class of materials The contents of the book will benefit students researchers and technicians involved in the fields of biological sciences such as cell biology medicine molecular biology food technology cosmetology pharmacology biotechnology and environmental sciences The book also provides information for the material science personnel enabling them to understand the basics of target oriented nanomaterials design for specific objectives

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