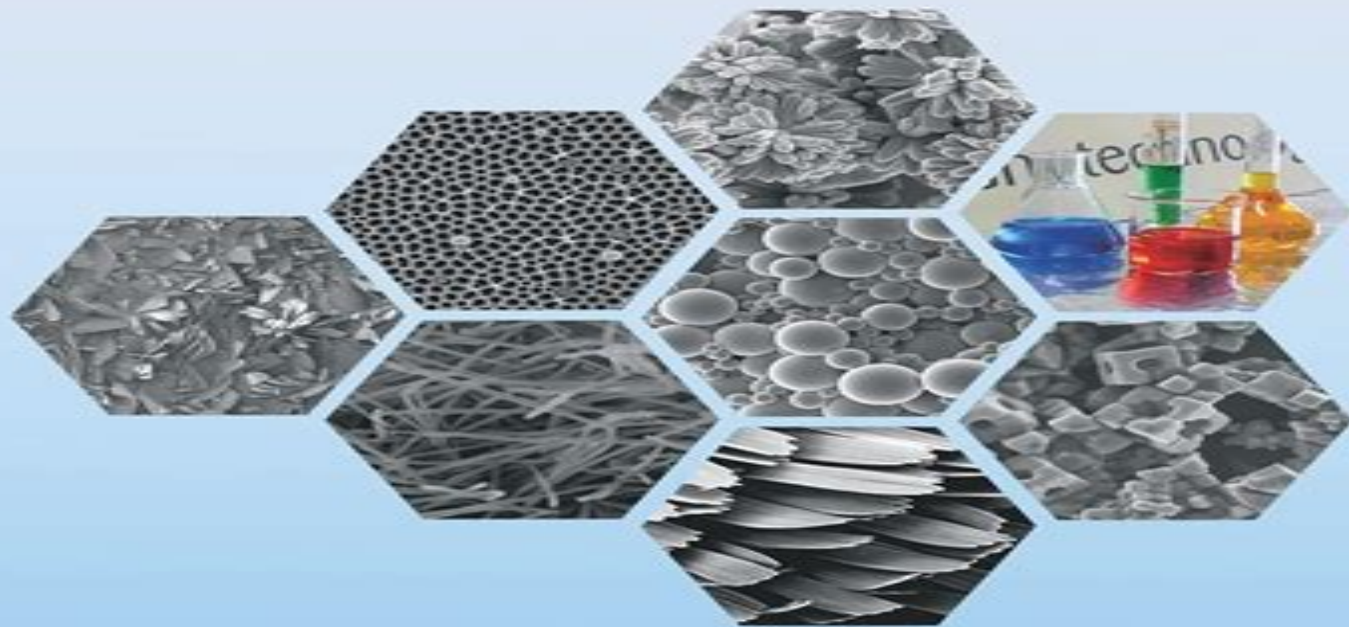


A Laboratory Course in Nanoscience and Nanotechnology



Dr. G  rard Eddy Jai Poinern

A Laboratory Course In Nanoscience And Nanotechnology

**Boris Ildusovich Kharisov, Oxana
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composites Discusses applications in diverse fields such as catalysis on supporting materials water treatment sensors drug delivery and devices Seaweeds and Seaweed-Derived Compounds Fatih Ozogul, Monica Trif, Alexandru Rusu, 2024-10-21 Recent advances in the industrial application and industrial development of seaweeds are important in addressing the world's growing needs for healthy nutrients Seaweeds are a potentially sustainable feedstock for future food and feed green chemicals and fuels For seaweed biorefinery the fractionation of the biomass to co produce multiple products is crucial in the efficient valorization of the aquatic biomass Widespread use of seaweed is still limited by a number of factors including harvesting access seasonality and geographical location of algae toxicological aspects as well as the availability of scalable production methods A good example is protein isolation from algae since current processes of algal protein isolation are time consuming and economically unviable Seaweeds and Seaweed Derived Compounds offers a comprehensive overview of sustainable seaweeds for the recovery of low cost dietary nutrients from algae and alga based biomass and their validation to meet market the requirements of consumers and industry in different sectors With chapters focusing on seaweeds as foods pharmaceuticals and cosmetic and dermatological applications this text provides multidisciplinary knowledge of this sustainable biomass presented with a mix of academic and industrial perspectives **Nanomaterials and Environmental Biotechnology** Indu Bhushan, Vivek Kumar Singh, Durgesh Kumar Tripathi, 2020-02-22 Nanotechnology is considered as one of the emerging fields of science It has applications in different biological and technological fields which deal with the science of materials at nanoscale 10^{-9} On the other hand biotechnology is another field that deals with contemporary challenges Nanobiotechnology fills the gap between these two fields It merges physical chemical and biological principles in a single realm This combination opens up new possibilities At nanoscale dimensions it creates precise nanocrystals and nanoshells Integrated nanomaterials are used with modified surface layers for compatibility with living systems improved dissolution in water or biorecognition leading to enhanced end results in biotechnological systems These nanoparticles can also be hybridized with additional biocompatible substances in order to amend their qualities to inculcate novel utilities Nanobiotechnology is used in bioconjugate chemistry by coalescing up the functionality of non organically obtained molecular components and biological molecules in order to veil the immunogenic moieties for targeted drug delivery bioimaging and biosensing This book blends the science of biology medicine bioinorganic chemistry bioorganic chemistry material and physical sciences biomedical engineering electrical mechanical and chemical science to present a comprehensive range of advancements The development of nano based materials has made for a greater understanding of their characterization using techniques such as transmission electron microscope FTIR X ray diffraction scanning electron microscope EDX and so on This volume also highlights uses in environmental remediation environmental biosensors and environmental protection It also emphasizes the significance of nanobiotechnology to a series of medical applications viz diagnostics and therapeutics stem cell technology tissue engineering enzyme engineering drug development and delivery In

addition this book also offers a distinctive understanding of nanobiotechnology from researchers and educators and gives a comprehensive facility for future developments and current applications of nanobiotechnology **Nanotechnology in Sustainable Agriculture** M. Anwar Mallick, Manoj K. Solanki, Baby Kumari, Suresh Kumar Verma, 2021-07-08 Nanotechnology in Sustainable Agriculture presents applications of nanobiotechnology for eco friendly agriculture practices Implementing sustainable agriculture techniques is a crucial component in meeting projected global food demands while minimising toxic waste in the environment Nano technological tools including nanoparticles nanocapsules nanotubes and nanomolecules offer sustainable options to modernise agriculture systems Written by nanotechnology experts this book outlines how nano formulations can improve yield without reliance on chemical pesticides and reduce nutrient losses in fertilization It reveals how nanotools are used for rapid disease diagnostics in treating plant diseases and enhancing the capacity for plants to absorb nutrients Features Combines nanotechnology and agronomy presenting applications for improving plant performance and yields Reveals nanotechnology based products used for the soil and plant health management which mitigate climate change Discusses roles of microbial endophytes heavy metal nanoparticles and environment health nano nutrients phytochemicals green bioengineering and plant health This book appeals to professionals working in the agriculture and food industry as well as agricultural scientists and researchers in nanotechnology and agronomy **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 **Introduction to Nanoscience** Gabor L. Hornyak, Joydeep Dutta, H.F.

Tibbals, Anil Rao, 2008-05-15 Tomorrow's nanoscientist will have a truly interdisciplinary and nano-centric education rather than for example a degree in chemistry with a specialization in nanoscience For this to happen the field needs a truly focused and dedicated textbook This full color masterwork is such a textbook It introduces the nanoscale along with the societal impacts of nanoscience then presents an overview of characterization and fabrication methods The authors systematically discuss the chemistry physics and biology aspects of nanoscience providing a complete picture of the challenges opportunities and inspirations posed by each facet before giving a brief glimpse at nanoscience in action nanotechnology

Nanophytomedicine Parimelazhagan Thangaraj, Lucindo Jose Quintans Junior, N. Ponpandian, 2022-10-10

Nanophytomedicine is a branch of medicine that involves the application of nanomedicine based systems to phytotherapy and phytopharmacology and the use of phytonanoparticles for biomedical applications Nanophytomedicine covers recent advances in experimental and theoretical studies on various properties of nanoparticles derived from plant sources This book assesses the recent advancements and applications of plant based nanoparticles and also highlights emerging concepts of biomimetics The book contains 24 chapters encompassing various therapeutic applications of phytochemicals derived from plants ferns seaweeds and so on mediated through nanotechnology and its allied approaches A fervent attempt has been made to compile every significant advancement in the field of phytonanomedicine so as to accelerate its momentum in the pharmaceutical sector Harnessing Synthetic Nanotechnology-Based Methodologies for Sustainable Green Applications

Gerrard Eddy Jai Poinern, Suraj Tripathy, Derek Fawcett, 2023-07-24 Nanotechnology is at the forefront of many of the latest developments across science and technology but to generate and deploy these applications macroscopic levels of nanoscale materials have to be carefully generated whilst remaining cost effective These materials need to be reliable consistent and safe and as a general principle industries should consider green sustainable methods in the synthesis of these material and their applications as well This book introduces readers to the field of green nanotechnologies and their possible applications to create a safer world This accessible and practical guide will be a useful resource for material scientists engineers chemists biotechnologists and scientists working in the space of nanomaterials in addition to graduate students in physics chemistry biomedical sciences and engineering THIS BOOK Presents an accessible introduction to the topic in addition to more advanced material for specialists in the field Covers a broad spectrum of topics in this new field Contains exciting case studies and examples such as quantum dots bionanomaterials and future perspectives Dr Gerrard E J Poinern holds a Ph D in Physics from Murdoch University Western Australia and a Double Major in Physics and Chemistry Currently he is an

Associate Professor in Physics and Nanotechnology in the School of Engineering and Information Technology at Murdoch University He is the director of Murdoch Applied Innovation and Nanotechnology Research Group Murdoch University In 2003 he discovered and pioneered the use of an inorganic nanomembrane for potential skin tissue engineering applications He is the recipient of a Gates Foundation Global Health Grand Challenge Exploration Award for his work in the development of biosynthetic materials and their subsequent application in the manufacture of biomedical devices He is also the author of the 2014 CRC Press experimental textbook A Laboratory Course in Nanoscience and Nanotechnology Associate Professor Suraj Kumar Tripathy is Associate Dean of the School of Chemical Technology at Kalinga Institute of Industrial Technology Bhubaneswar India He currently leads the Chemical Bioprocess Engineering Lab CBEL at KIIT which focuses on achieving sustainability in materials processing and utilization CBEL explores opportunities in valorization of waste materials secondary resources and investigate their applications in catalysis water treatment and biomedical systems CBEL also works closely with industries to develop suitable waste management and resource recycling strategies to optimize the potential of circular economy model Dr Derek Fawcett is the Defence Science Centre research fellow at Murdoch University Australia His research involves the investigation and development of new advanced materials and their use in innovative engineering systems He has published over seventy peer reviewed research papers in international journals and is the co author of four book chapters on applied nanotechnology

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