

line, A431, derived from a human epidermal carcinoma, is a model system for the study of cancer-associated cellular signaling pathways. A431 cells can express EGFR at an extremely high level (500,000 per cell) [24] and contain 32 μg cholesterol per mg protein [26]. The third one, MCF12A, is a non-tumorigenic breast epithelial cell line, which expresses EGFR normally.

2. Methods

EGFRs were labeled to display their diffusive motions in the plasma membranes of live cells. An anti-EGFR antibody-quantum dot complex was synthesized for attaching specifically on unliganded EGFRs as a fluorescent tag. To label liganded EGFRs, we used fluorescent epidermal growth factors (EGF) to activate EGFRs and tag them at the same time. A schematic diagram of native and liganded EGFRs in the environment of plasma membrane is described in Figure 1.

[Figure 1 about here.]

2.1. Cell culture and reagents

HeLa and A431 cells were cultured in Dulbecco's Modified Eagle's medium (DMEM) with 10 % (v/v) fetal bovine serum without phenol red, whereas MCF12A cells were cultured in a 1:1 mixture of DMEM and Ham's F12 medium containing 20 ng/mL Human EGF, 0.01 ng/mL bovine insulin, 500 ng/mL hydrocortisone, and 5 % (v/v) horse serum. Before the single-molecule live-cell imaging was performed, the cells were plated in a slide with eight-well chambers. After a 70–80 % confluence was reached, HeLa and A431 cells were deprived of serum for 24 h, whereas MCF12A cells were deprived of serum for 3 h.

To tag EGFRs in the plasma membranes of live cells, anti-EGFR antibody (Thermo Fisher Scientific, Waltham, MA, USA) was first biotinylated. The resulting biotinylated anti-EGFRs were conjugated with quantum dots (Qdot585-streptavidin, Thermo Fisher Scientific). Cells were incubated in a cell culture containing 10 nM of anti-EGFR-Qdot585 for 15 min and then washed three times with phosphate buffered saline (PBS). Fluorescent EGF (EGF-Qdot585) was synthesized by conjugating biotin-EGF from Invitrogen to Qdot585-streptavidin in PBS. To

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Nanoparticle Technology Handbook Kiyoshi Nogi, Makio Naito, Toyokazu Yokoyama, 2012-04-13 This handbook explains aspects of nanoparticles with many application examples showing their advantages and advanced development

Handbook of Nanofillers Shadpour Mallakpour, Chaudhery Mustansar Hussain, 2025-08-05 This handbook presents the basic concepts of nanofillers their types unique properties including their structure surface area properties real time applications The book discusses basics of nanofillers their types their structures and properties as well as several applications The chapters in this book cover latest developments applications in the food industry drug delivery tissue technology biosensors electrically conductive polymers and insulators green catalysis and environmental remediation The contents of these book will be useful to researchers industry practitioners and academics across disciplines of materials science chemistry biomedicine industrial engineering and chemical engineering

Bio Monomers for Green Polymeric Composite Materials Visakh P. M., Oguz Bayraktar, Gopalakrishnan Menon, 2019-08-15 Presents new and innovative bio based monomers to replace traditional petrochemical based building blocks Featuring contributions from top experts in the field this book discusses new developments in the area of bio monomers and green polymeric composite materials It covers bio monomers green polymeric composites composites from renewable resources bio sourced polymers green composites biodegradation processing methods green polymeric gels and green polymeric membranes Each chapter in Bio Monomers for Green Polymeric Composites Materials presents the most recent research and technological ideas in a comprehensive style It examines bio monomers for green polymer and the processing methods for the bio nanocomposites It covers the preparation characterization and applications of bio polymeric materials based blends as well as the applications of biopolymeric gels in medical biotechnology The book also explores the properties and applications of gelatins pectins and carrageenans gels Additionally it offers a plethora of information on green polymeric membranes the bio degradation of green polymeric composites materials applications of green polymeric composites materials hydrogels used for biomedical applications and the use of natural aerogels as thermal insulations Introduces readers to the innovative new bio based monomers that are taking the place of traditional petrochemical based building blocks Covers green polymers green composites bio sourced polymers bio nanocomposites biodegradable polymers green polymer gels and membranes Features input from leading researchers immersed in the area of study Bio Monomers for Green Polymeric Composites Materials is suitable for academics researchers scientists engineers and advanced students in the field of bio monomers and green polymeric composites materials

Horizons in Sustainable Industrial Chemistry and Catalysis Stefania Albonetti, Siglinda Perathoner, Elsie Alessandra Quadrelli, 2019-02-13 Horizons in Sustainable Industrial Chemistry and Catalysis Volume 178 presents a comprehensive picture of recent developments in terms of sustainable industrial processes and the catalytic needs and opportunities to develop these novel routes Each chapter includes an introduction and state of the art in the field along with

a series of specific aspects and examples The book identifies new opportunities for research that will help us transition to low carbon and sustainable energy and chemical production Users will find an integrated view of the new possibilities in this area that unleashes new possibilities in energy and chemistry Combines an analysis of each scenario the state of the art and specific examples to help users better understand needs opportunities gaps and challenges Offers an integrated view of new catalytic technologies that are needed for future use Presents an interdisciplinary approach that combines broad expertise Brings together experts in the area of sustainable industrial chemistry

Handbook of Porous Carbon Materials Andrews Nirmala Grace, Prashant Sonar, Preetam Bhardwaj, Arghya Chakravorty, 2023-03-06 This handbook summarizes the current advancements and growth in sustainable carbonaceous porous materials for fabrication and revival of energy devices fuel cells sensors technology solar cell technology stealth technology in addition to biomedical applications It also covers the potential applications of carbon materials in various fields such as chemical engineering biomedical and environmental sciences It also confers the prospective utilization of 2D and 3D hierarchical porous carbon in different interdisciplinary engineering applications The book discusses major challenges faced in the development of cost effective future energy storage strategies and provides effective solutions for improvement in the performance of carbon based materials Given the content this handbook will be useful for students researchers and professionals working in the area of material chemistry and allied fields

Journal of Nanoscience and Nanotechnology ,2006

Nanostructured Materials for Next-Generation Energy Storage and Conversion Qiang Zhen, Sajid Bashir, Jingbo Louise Liu, 2019-10-10 Volume 3 of a 4 volume series is a concise authoritative and an eminently readable and enjoyable experience related to lithium ion battery design characterization and usage for portable and stationary power Although the major focus is on lithium metal oxides or transition metal oxide as alloys the discussion of fossil fuels is also presented where appropriate This monograph is written by recognized experts in the field and is both timely and appropriate as this decade will see application of lithium as an energy carrier for example in the transportation sector This Volume focuses on the fundamentals related to batteries using the latest research in the field of battery physics chemistry and electrochemistry The research summarised in this book by leading experts is laid out in an easy to understand format to enable the layperson to grasp the essence of the technology its pitfalls and current challenges in high power Lithium battery research After introductory remarks on policy and battery safety a series of monographs are offered related to fundamentals of lithium batteries including theoretical modeling simulation and experimental techniques used to characterize electrode materials both at the material composition and also at the device level The different properties specific to each component of the batteries are discussed in order to offer tradeoffs between power and energy density energy cycling safety and where appropriate end of life disposal Parameters affecting battery performance and cost longevity using newer metal oxides different electrolytes are also reviewed in the context of safety concerns and in relation to the solid electrolyte interface Separators membranes solid state electrolytes and

electrolyte additives are also reviewed in light of safety recycling and high energy endurance issues The book is intended for a wide audience such as scientists who are new to the field practitioners as well as students in the STEM and STEP fields as well as students working on batteries The sections on safety and policy would be of great interest to engineers and technologists who want to obtain a solid grounding in the fundamentals of battery science arising from the interaction of electrochemistry solid state materials science surfaces and interfaces

Nanostructured Conductive Polymers Ali Eftekhari, 2011-07-07 Providing a vital link between nanotechnology and conductive polymers this book covers advances in topics of this interdisciplinary area In each chapter there is a discussion of current research issues while reviewing the background of the topic The selection of topics and contributors from around the globe make this text an outstanding resource for researchers involved in the field of nanomaterials or polymer materials design The book is divided into three sections From Conductive Polymers to Nanotechnology Synthesis and Characterization and Applications **Recent**

Advances in Solid State Science and Technology Jedol Dayou, Roslan Abd-Shukor, 2015-06-08 Special topic volume with invited papers only **Chemical Solution Deposition of Functional Oxide Thin Films** Theodor Schneller, Rainer

Waser, Marija Kosec, David Payne, 2014-01-24 This is the first text to cover all aspects of solution processed functional oxide thin films Chemical Solution Deposition CSD comprises all solution based thin film deposition techniques which involve chemical reactions of precursors during the formation of the oxide films i e sol gel type routes metallo organic decomposition routes hybrid routes etc While the development of sol gel type processes for optical coatings on glass by silicon dioxide and titanium dioxide dates from the mid 20th century the first CSD derived electronic oxide thin films such as lead zirconate titanate were prepared in the 1980 s Since then CSD has emerged as a highly flexible and cost effective technique for the fabrication of a very wide variety of functional oxide thin films Application areas include for example integrated dielectric capacitors ferroelectric random access memories pyroelectric infrared detectors piezoelectric micro electromechanical systems antireflective coatings optical filters conducting transparent conducting and superconducting layers luminescent coatings gas sensors thin film solid oxide fuel cells and photoelectrocatalytic solar cells In the appendix detailed cooking recipes for selected material systems are offered *Green Metal Nanoparticles* Suvardhan Kanchi, Shakeel

Ahmed, 2018-11-06 This groundbreaking book uniquely focuses on the exploration of the green synthesis of metal nanoparticles and their characterization and applications Metal nanoparticles are the basic elements of nanotechnology as they are the primary source used in the design of nanostructured devices and materials Nanomaterials can be manufactured either incidentally with physical or chemical methods or naturally and the high demand for them has led to their large scale production by various toxic solvents or high energy techniques However due to the growing awareness of environmental and safety issues the use of clean nontoxic and environment friendly ways to synthesize metal nanoparticles has emerged out of necessity The use of biological resources such as microbes plant parts vegetable wastes agricultural wastes gums etc has

grown to become an alternative way of synthesizing metal nanoparticles This biogenic synthesis is green environmentally friendly cost effective and nontoxic The current multi authored book includes recent information and builds a database of bioreducing agents for various metal nanoparticles using different precursor systems Green Metal Nanoparticles also highlights different simple cost effective environment friendly and easily scalable strategies and includes parameters for controlling the size and shape of the materials developed from the various greener methods Biosensors with Magnetic Nanocomponents Galina V. Kurlyandskaya, 2020-12-14 The selective and quantitative detection of biocomponents is greatly requested in biomedical applications and clinical diagnostics Many traditional magnetic materials are not suitable for the ever increasing demands of these processes The push for a new generation of microscale sensors for bioapplications continues to challenge the materials science community to develop novel nanostructures that are suitable for such purposes The principal requirements of a new generation of nanomaterials for sensor applications are based on well known demands high sensitivity small size low power consumption stability quick response resistance to aggressive media low price and easy operation by nonskilled personnel There are different types of magnetic effects capable of creating sensors for biology medicine and drug delivery including magnetoresistance spin valves Hall and inductive effects and giant magnetoeffect The present goal is to design nanomaterials both for magnetic markers and sensitive elements as synergetic pairs working in one device with adjusted characteristics of both materials Synthetic approaches using the advantages of simulation methods and synthetic materials mimicking natural tissue properties can be useful as can the further development of modeling strategies for magnetic nanostructures Phosphor Handbook Vijay B. Pawade, Ritesh L. Kohale, Sanjay J. Dhoble, Hendrik C. Swart, 2023-01-15 Phosphor Handbook Process Properties and Applications provides a comprehensive overview of the latest advances in research on the synthesis characterization and applications of organic and inorganic phosphors There is detailed information presented on the characterization of the relevant phosphor groups such as up conversion and down conversion phosphors inorganic LED phosphors organic LED phosphors and thermoluminescence and dosimetric phosphors using various physical and chemical advances Finally the advances in phosphor technologies are discussed including current barriers to their use in commercial applications and emerging opportunities This book is suitable for researchers and practitioners in academia and those working in R D in industry in the disciplines of materials science and engineering materials chemistry materials physics photonics science and technology nanotechnology and physical chemistry Introduces fundamentals of phosphor materials including their mechanisms properties and technologies Reviews the most important categories of phosphor materials inorganic and organic for use in light emitting diodes and dosimetry Discusses advances in physical and chemical methods to synthesize and characterize phosphor materials Nanomaterials and Nanoarchitectures M. Bardosova, T. Wagner, 2015-08-31 The current work consists of nine contributions describing recent progress in the interdisciplinary of Nanoscience which involves physics chemistry engineering biology and medicine and one essay outlining

some important historical and socioeconomic factors pertaining to recent developments in nanoscale science and technology All 10 chapters have been written by eminent experts in their respective fields The authors employ the terms nanomaterials as building blocks of a range of materials nanoarchitecture represents the design and nanotechnology the means to produce a particular device or functionality Two of the chapters are devoted to novel materials and two others focus on analyzing techniques which can be used to enable molecular control of the film architecture Additionally the reader will find material devoted to photonic and hybrid plasmonic photonic crystals as well as sections which address their applications such as the use of plasmonic particles and nanostructures for new sensing concepts and ultrasensitive detection techniques This work will be of interest to graduate students researchers and practitioners alike

Nanomaterial-Modified Electrodes Aftab Aslam Parwaz Khan, Raviraj M. Kulkarni, Mohammad Omaish Ansari, Abdullah M. Asiri, 2024-10-08 This contributed volume overviews the latest developments in the area of nanomaterial modified electrodes and presents their unique biosensing pharmaceutical and environmental applications The book provides a comprehensive introduction on the basics of electrochemical sensors while also presenting overviews of multiple modified electrodes as essential elements for the development of sensors The principle electrochemical sensors which are transducing the chemical biochemical reactions to electrical signals are presented while a special focus on lab on chips as well as the design and applications of various flexible electrodes is given This book is of great benefit to researchers graduate students and professionals working in the areas of biosensing materials science environmental engineering and pharmaceutical analysis

Nanotechnology in Traditional Medicines and Natural Products Fang Liu, Ye Tian, Ruibing Wang, Wei Cao, Ruoyu Zhang, 2021-03-30

Nanocomposites J. Paulo Davim, Constantinos A. Charitidis, 2013-06-26 Nanocomposites are currently defined as a multiphase solid material where one of the phases has one two or three dimensions of less than 100 nanometers or structures having nano scale repeat distances between the different phases that make up the material The use of nanocomposites with polymer metal or ceramic matrices has increased in various areas of engineering and technology due to their special properties with applications in bioengineering battery cathodes automotives sensors and computers as well other advanced industries The present volume aims to provide recent information on nanocomposites materials manufacturing and engineering in six chapters The chapter 1 of the book provides information on synthesis and characterization of ceramic hollow nanocomposites and nanotraps Chapter 2 is dedicated to recent advances on preparation properties and applications polyurathene nanocomposites Chapter 3 described preparation characterization and properties of organoclays carbon nanofibers and carbon nanotubes based polymer nanocomposites Chapter 4 contains information on mechanical and wear properties of multi scale phase reinforced composites Chapter 5 described modeling mechanical properties of nanocomposites Finally chapter 6 is dedicated to polyaniline derivates and carbon nanotubes and their characterization This book is the essential reference for academics materials and physics researchers materials mechanical and manufacturing engineers and professionals in nanocomposite

related industries *Particles at Fluid Interfaces* Erica Wanless, Grant Webber, Syuji Fujii, 2019-05-09 *Particles at Fluid Interfaces* encompasses the processes and formulations that involve the stabilisation of fluid interfaces by adsorbed particles. The prevalence of these multiphase materials underpins their use in a broad range of industries from personal care and food technology to oil and mineral processing. The stabilisation conferred by the adsorbed particles can be transient as found in froth flotation or long lived as occurs within Pickering Emulsions. The particles can range in size from nanoparticles to millimetre sized particles and cover a spectrum from collapsed proteins polymeric colloids of controlled size and shape to high dispersity mineral particles **Handbook of Biomaterials Biocompatibility** Masoud Mozafari, 2020-06-17 *Handbook of Biomaterials Biocompatibility* is a systematic reference on host response to different biomaterials taking into account their physical mechanical and chemical properties. The book reviews recent progress in the design and study of biomaterials biocompatibility along with current understanding on how to control immune system response. Sections provide the fundamental theories and challenges of biomaterials biocompatibility: the role of different biomaterials; physicochemical surface properties on cell responses; cell responses to different physicochemical properties of polymers, ceramics, metals, carbons and nanomaterials; and biomaterials in different tissues such as the cardiac nervous system, cartilage and bone. This resource will be suitable for those working in the fields of materials science, regenerative engineering, medicine, medical devices and nanotechnology. Reviews the fundamental theories and challenges of biomaterials biocompatibility including an overview of the standards and regulations. Provides an overview on the cellular and molecular mechanisms involved in host responses to biomaterials. Systematically looks at cellular response and tissue response to a wide range of biomaterials including polymers, metals, ceramics, alloys and nanomaterials **Advances in Nanostructured Composites** Mahmood Aliofkhazraei, 2019-04-30 Composites and nanocomposites are used in cases where long durability and strength of components are required i.e. where high stress levels, erosion processes and multiphase environments are present including the parts under collision and impact, the parts under rotating motion and erosion like excavation drills in oil and gas wells. The first volume of this book aims to provide a guide for fabrication of new nanocomposites mainly based on carbon nanotubes and graphene. The main topics of this volume are: Application of Nano powders for Formation of Metal Matrix of Composites; Conjugated Polymer Nanocomposites; Biopolymer Nanocomposites; Dental Nanocomposites; Graphene based Nanocomposites for Electrochemical Energy Storage; Polymer Filler Composites for Optical Diffuse Reflectors; Synthesis and Applications of LDH Based Nanocomposites; Rubber/CNT Nanocomposites; Nanocomposite Fibers with Carbon Nanotubes; Fabrications of Graphene Based Nanocomposites for Electrochemical Sensing of Drug Molecules; Recent Advances in Graphene Metal Oxide Based Nanocomposites.

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