

Emerging Applications Of Colloidal Noble Metals In Cancer Nanomedicine

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Emerging Applications of Nanoparticles and Architecture Nanostructures: Current Prospects and Future Trends discusses the most important current applications of nanoparticles and architecture nanostructures in a comprehensive, detailed manner. The book covers major applications of nanoparticles and architecture nanostructures, taking into account their unusual shapes and high surface areas. In particular, coverage is given to applications in aerospace, automotive, batteries, sensors, smart textile design, energy conversion, color imaging, printing, computer chips, medical implants, pharmacy, cosmetics, and more. In addition, the book discusses the future of research in these areas. This is a valuable reference for both materials scientists, chemical and mechanical engineers working both in R&D and academia who want to learn more on how nanoparticles and nanomaterials are commercially applied. Provides an in-depth look at the properties of nanoparticles and architecture nanostructures in terms of their applicability for industrial uses Analyzes the most recent advances and industrial applications of different types of nanoparticles and architecture nanostructures, taking into account their unusual structures and compositions Identifies novel nanometric particles and architectures that are of particular value for applications and

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the techniques required to use them effectively

Advances in Cancer Research, Volume 139, provides invaluable information on the exciting and fast-moving field of cancer research. Original reviews are presented on a variety of topics relating to the rapidly developing intersection between nanotechnology and cancer research, with unique sections in the new release focusing on Exosomes as a theranostic for lung cancer, Nanotechnology and cancer immunotherapy, Ultrasound imaging agents and delivery systems, Dendronized systems for the delivery of chemotherapeutics, Thermosensitive liposomes for image-guided drug delivery, Supramolecular Chemistry in Tumor Analysis and Drug Delivery, Gold nanoparticles for delivery of cancer therapeutics, and Single cell barcode microchip for cancer research and therapy. Provides the latest information on cancer research Offers outstanding and original reviews on a range of cancer research topics Serves as an indispensable reference for researchers and students alike

Nanomaterials attract tremendous attention in recent researches. Although extensive research has been done in this field it still lacks a comprehensive reference work that presents data on properties of different Nanomaterials. This Handbook of Nanomaterials Properties will be the first single reference work that brings together the various properties with wide breadth and scope.

The term low-dimensional systems, which is used in the title of this volume, refers to those systems which contain at least one dimension that is intermediate between those characteristic of atoms/molecules and those of the bulk material. Depending on how many dimensions lay within this range, one generally speaks of quantum wells, quantum wires, and quantum dots. At such an intermediate state, some properties of low-dimensional systems are very different from those of their molecular and bulk counterparts. These properties generally include optical, electronic, and magnetic properties, and all these are partially covered in this book. The book's main thrust is a discussion of the actual state of the art in the broad area of nanotechnology. The initial focus is on the innovative synthesis of nanomaterials and their properties, such as quantum size effects, superparamagnetism, or field emission. These topics lead into the various field-based interactions, including plasmon-magnetic-spin- and exciton coupling. The newer, more sophisticated methods for characterizing nanomaterials are discussed, as well as the methods for possible industrial applications. In general, chemists and physicists, as well as experts on both theory and experiments on nanosized regime structures meet here to discuss the general phenomena underlying their fields of interest from different points of view.

Organized nanoassemblies of inorganic nanoparticles and organic molecules are building blocks of nanodevices, whether they are designed to perform molecular level computing, sense the environment or improve the catalytic properties of a material. The key to creation of these hybrid nanostructures lies in understanding the chemistry at a fundamental level. This book serves as a reference book for researchers by providing fundamental understanding of many nanoscopic materials.

Nanotechnology is considered the next big revolution in medicine and biology. For the past 20 years, new research groups have been involved in the development of new applications of novel nanomaterials for biotechnological applications. Nanomaterials are also becoming increasingly important in medical applications. New drugs and diagnostic tools are being discovered using nanotechnology as the base. Every year, hundreds of new ideas using nanomaterials are applied in the development of biosensors. Increasing numbers of new

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enterprises are also searching for market opportunities using these technologies. Nanomaterials for biotechnological applications is a very complex field. Thousands of different nanoparticles could potentially be used for these purposes. Some of them are very different: their synthesis, characterization and potentiality are very diverse. With this book, we aim to establish a route guide for non-erudite researchers in the field showing the advantages and disadvantages of the different kind of nanomaterials. Provides an overview of the main advantages and disadvantages of the use of organic and inorganic nanoparticles for use in biotechnology and nanomedicine Provides an excellent starting point for research groups looking for solutions in nanotechnology who do not know which kind of materials will best suit their needs Includes a tutorial introduction that provides a basis for understanding the subsequent specialized chapters

Nano-Bioremediation: Fundamentals and Applications explores how nano-bioremediation is used to remedy environmental pollutants. The book's chapters focus on the design, fabrication and application of advanced nanomaterials and their integration with biotechnological processes for the monitoring and treatment of pollutants in environmental matrices. It is an important reference source for materials scientists, engineers and environmental scientists who are looking to increase their understanding of bioremediation at the nanoscale. The mitigation of environmental pollution is the biggest challenge to researchers and the scientific community, hence this book provides answers to some important questions. As an advanced hybrid technology, nano-bioremediation refers to the integration of nanomaterials and bioremediation for the remediation of pollutants. The rapid pace of urbanization, massive development of industrial sectors, and modern agricultural practices all cause a controlled or uncontrolled release of environmentally-related hazardous contaminants that are seriously threatening every key sphere, including the atmosphere, hydrosphere, biosphere, lithosphere, and anthroposphere. Explores the current and potential applications of nano-bioremediation in the remediation of hazardous pollutants Outlines the major properties and classes of nanomaterials that make them efficient bioremediation agents Assesses the major challenges of effectively implementing bioremediation techniques at the nanoscale

This book introduces the recent progress that has resulted from utilizing the idea of "element-block polymers". A structural unit consisting of various groups of elements is called an "element-block." The design and synthesis of new element-blocks, polymerization of these blocks, and development of methods of forming higher-order structures and achieving hierarchical interface control in order to yield the desired functions are expected to result in manifold advantages. These benefits will encourage the creation of new polymeric materials that share, at a high level, electronic, optical, and magnetic properties not achievable with conventional organic polymeric materials as well as forming properties of molding processability and flexible designability that inorganic materials lack. By pioneering innovative synthetic processes that exploit the reactivity of elements and the preparation techniques employed for inorganic element-blocks, the aim is (1) to create a new series of innovative polymers based on the novel concept of element-block polymers, in which the characteristics of elements are extensively combined and utilized, and (2) to formulate theories related to these polymers. This book demonstrates especially the design strategies and the resulting successful examples offering highly functional materials that utilize element-block polymers as a key unit.

The use of copper, silver, gold and platinum in jewelry as a measure of wealth is well known. This book contains 19 chapters written by international authors on other uses and

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applications of noble and precious metals (copper, silver, gold, platinum, palladium, iridium, osmium, rhodium, ruthenium, and rhenium). The topics covered include surface-enhanced Raman scattering, quantum dots, synthesis and properties of nanostructures, and its applications in the diverse fields such as high-tech engineering, nanotechnology, catalysis, and biomedical applications. The basis for these applications is their high-free electron concentrations combined with high-temperature stability and corrosion resistance and methods developed for synthesizing nanostructures. Recent developments in all these areas with up-to-date references are emphasized.

This book presents the basic and fundamental aspects of nanomaterials, its types, and classifications with respect to different factors. It contains methods of preparation and characterization of unique nanostructured materials. Consisting of six chapters, this book appeals to a wide readership from academia and industry professionals and is also useful to undergraduate and graduate students focusing on nanotechnology and nanomaterials, sustainable chemistry, energy conversion and storage, environmental protection, optoelectronics, sensors, and surface and interface science. It also appeals to readers who wish to know about the design of new types of materials with controlled nanostructures.

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