

Optoelectronics Plasmon Enhanced Plastic Devices

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The abundance of unique effects found at the nanoscale offers advantages for electronics. Now, complex heterostructures of metal clusters grown on a carbon-dot support exhibit interactive ...

Plasmon-enhanced plastic devices | Nature Photonics

This brief article reviews recent research advances on the plasmonic enhanced optoelectronic devices and highlights a variety of strategies of incorporating plasmonic nanostructures into different...

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This brief article reviews recent research advances on the plasmonic enhanced optoelectronic devices and highlights a variety of strategies of incorporating plasmonic nanostructures into different optoelectronics such as solar cells, light-emitting diode, and multicolor photodetector, etc. In addition, the benefits of using various plasmonic metal nanostructures are discussed and the resulting enhancement mechanisms are displayed and summarized.

Plasmonic Enhanced Optoelectronic Devices | SpringerLink

Plasmonic devices and photodetectors based on topological insulators in a wide energy range, from terahertz to the ultraviolet, promise outstanding impact. Furthermore, the peculiarities, the range of applications, and the challenges of the emerging fields of topological photonics and thermo-plasmonics are discussed.

Optoelectronic devices, plasmonics, and photonics with ...

In organic optoelectronic devices, such as organic light-emitting devices (OLEDs) and organic solar cells (OSCs), high efficiency is one of the key issues for their applications, and much effort has been devoted to developing novel materials and device structures [1, 2]. It is well known that the majority of the generated light is trapped in OLEDs.

Comprehensively covering inorganic flexible optoelectronics and their applications This highly application-oriented book provides an overview of the vibrant research field of inorganic flexible optoelectronics ? from materials to applications ? covering bulk materials as well as nanowires, thin films, nanomembranes for application in light emitting diodes, photodetectors, phototransistors, and solar cells. Edited and written by world-leading experts in the field, Inorganic Flexible Optoelectronics: Materials and Applications begins by covering flexible inorganic light emitting diodes enabled by new materials and designs, and provides examples of their use in neuroscience research. It then looks at flexible light-emitting diodes based on inorganic semiconductor nanostructures ? from thin films to nanowires. Next, the book examines flexible photodetectors with nanomembranes and nanowires; 2-D material based photodetectors on flexible substrates; and IV group materials based solar cells and their flexible photovoltaic technologies. Following that, it presents readers with a section on thin-film III-V single junction and multijunction solar cells and demonstrates their integration onto heterogeneous substrates. Finally, the book finishes with in-depth coverage of novel materials based flexible solar cells. -A must-have book that provides an unprecedented overview of the state of the art in flexible optoelectronics -Supplies in-depth information for new and already active researchers in the field of optoelectronics -Lays down the undiluted knowledge on inorganic flexible optoelectronics ? from materials to devices -Focuses on materials and devices for high-performance applications such as light-emitting diodes, solar cells, and photodetectors Inorganic Flexible Optoelectronics: Materials and Applications appeals to materials scientists, electronics engineers, electrical engineers, inorganic chemists, and solid state physicists.

Graphene has been hailed as a rising star in photonics and optoelectronics. The wonderful optical properties of graphene make possible the multiple functions of signal emission, transmission, modulation, and detection to be realized in one material. This book compiles and details cutting-edge research in graphene photonics, plasmonics, and broadband optoelectronic devices. Particularly, it emphasizes the

ability to integrate graphene photonics onto the silicon platform to afford broadband operation in light routing and amplification, which involves components such as the polarizer, the modulator, and the photodetector. It also includes other functions such as a saturable absorber and an optical limiter. The book provides a comprehensive overview of the interrelationship between the operation of these conceptually new photonic devices and the fundamental physics of graphene involved in the interactions between graphene and light.

This book presents recent and important developments in the field of Photonics and Optoelectronics, with a particular focus on Laser Technology, Optical Communications, Optoelectronic Devices and Image Processing. At present, Photonics and Optoelectronics Technologies are pivotal to the future of laser, displays, sensors and communication technologies, and currently being developed at an extraordinary rate. This book details the theories underlying the mechanisms involved in the relevant Photonics and Optoelectronics. Devices such as laser diodes, photodetectors, and integrated optoelectronic circuits are investigated. The reviews by leading experts are of interest to researchers and engineers as well as advanced students.

A field as diverse as optoelectronics needs a reference that is equally versatile. From basic physics and light sources to devices and state-of-the-art applications, the Handbook of Optoelectronics provides comprehensive, self-contained coverage of fundamental concepts and practical applications across the entire spectrum of disciplines encompassed by optoelectronics. The handbook unifies a broad array of current research areas with a forward-looking focus on systems and applications. Beginning with an introduction to the relevant principles of physics, materials science, engineering, and optics, the book explores the details of optoelectronic devices and techniques including semiconductor lasers, optical detectors and receivers, optical fiber devices, modulators, amplifiers, integrated optics, LEDs, and engineered optical materials. Applications and systems then become the focus, with sections devoted to industrial, medical, and commercial applications, communications, imaging and displays, sensing and data processing, spectroscopic analysis, the art of practical optoelectronics, and future prospects. This extensive resource comprises the efforts of more than 70 world-renowned experts from leading industrial and academic institutions around the world and includes many references to contemporary works. Whether used as a field reference, as a research tool, or as a broad and self-contained introduction to the field, the Handbook of Optoelectronics places everything you need in a unified, conveniently organized format.

This book highlights some of the latest advances in nanotechnology and nanomaterials from leading researchers in Ukraine, Europe and beyond. It features contributions presented at the 7th International Science and Practice Conference Nanotechnology and Nanomaterials (NANO2019), which was held on August 27–30, 2019 at Lviv Polytechnic National University, and was jointly organized by the Institute of Physics of the National Academy of Sciences of Ukraine, University of Tartu (Estonia), University of Turin (Italy), and Pierre and Marie Curie University (France). Internationally recognized experts from a wide range of universities and research institutions share their knowledge and key findings on material properties, behavior, and synthesis. This book's companion volume also addresses topics such as nano-optics, energy storage, and biomedical applications.

Among the various nanomaterials, inorganic nanoparticles are extremely important in modern technologies. They can be easily and cheaply synthesized and mass produced, and for this reason, they can also be more readily integrated into applications. *Inorganic Nanoparticles: Synthesis, Applications, and Perspectives* presents an overview of these special materials and explores the myriad ways in which they are used. It addresses a wide range of topics, including: Application of nanoparticles in magnetic storage media Use of metal and oxide nanoparticles to improve performance of oxide thin films as conducting media in commercial gas and vapor sensors Advances in semiconductors for light-emitting devices and other areas related to the energy sector, such as solar energy and energy storage devices (fuel cells, rechargeable batteries, etc.) The expanding role of nanosized particles in the field of catalysis, art conservation, and biomedicine The book's contributors address the growing global interest in the application of inorganic nanoparticles in various technological sectors. Discussing advances in materials, device fabrication, and large-scale production—all of which are urgently required to reduce global energy demands—they cover innovations in areas such as solid-state lighting, detailing how it still offers higher efficiency but higher costs, compared to conventional lighting. They also address the impact of nanotechnology in the biomedical field, focusing on topics such as quantum dots for bioimaging, nanoparticle-based cancer therapy, drug delivery, antibacterial agents, and more. Fills the informational gap on the wide range of applications for inorganic nanoparticles in areas including biomedicine, electronics, storage media, conservation of cultural heritage, optics, textiles, and cosmetics Assembling work from an array of experts at the top of their respective fields, this book delivers a useful analysis of the vast scope of existing and potential applications for inorganic nanoparticles. Versatile as either a professional research resource or textbook, this effective tool elucidates fundamentals and current advances associated with design, characterization, and application development of this promising and ever-evolving device.

Offering perspective on both the scientific and engineering aspects of 2D semiconductors, *Ultrathin Two-Dimensional Semiconductors for Novel Electronic Applications* discusses how to successfully engineer 2D materials for practical applications. It also covers several novel topics regarding 2D semiconductors which have not yet been discussed in any other publications. Features: Provides comprehensive information and data about wafer-scale deposition of 2D semiconductors, ranging from scientific discussions up to the planning of experiments and reliability testing of the fabricated samples Precisely discusses wafer-scale ALD and CVD of 2D semiconductors and investigates various aspects of deposition techniques Covers the new group of 2D materials synthesized from surface oxide of liquid metals and also explains the device fabrication and post-treatment of these 2D nanostructures Addresses a wide range of scientific and practical applications of 2D semiconductors and electronic and optoelectronic devices based on these nanostructures Offers novel coverage of 2D heterostructures and heterointerfaces and provides practical information about fabrication and application of these heterostructures Introduces the latest advancement in fabrication of novel memristors, artificial synapses and sensorimotor devices based on 2D semiconductors This work offers practical information valuable for engineering applications that will appeal to researchers, academics, and scientists working with and interested in developing an array of semiconductor electronic devices.

This book describes various strategies for the synthesis of green nanoparticles using plant extracts and microbes, including the advantages and disadvantages of different methods and their applications. After discussing strategies for and the potential of green synthesis of noble metal nanoparticles, it highlights the role of the solvent system. The book then explores the stability/toxicity of nanoparticles and the

associated-surface engineering techniques for achieving biocompatibility, and examines the antimicrobial efficacy of green nanoparticles with regard to various bacterial pathogens, as well as the underlying cytotoxicity mechanisms. Lastly, the book addresses the potential applications of various green nanoparticles in cancer theranostics, and reviews a number of plant-mediated nanoparticles as potential pharmaceutical agents. Given its scope, the book will be of interest to all scientists and students wanting to learn more about the synthesis and applications of green nanoparticles.

Plasmonic Sensors and their Applications A practically-focused reference and guide on the use of plasmonic sensing as a faster and cheaper alternative to conventional sensing platforms Plasmons, the collective oscillations of electrons occurring at the interface between any two materials, are sensitive to changes in dielectric properties near metal surfaces. Plasmonic sensors enable the real-time study of unique surface properties by monitoring the effect of the material interaction at the sensor surface. Plasmonic sensing techniques offer fast, label-free analysis, and hold advantages over labelling techniques such as ELISA (enzyme-linked immunosorbent assay). **Plasmonic Sensors and their Applications** examines the development and use of highly sensitive and selective plasmonic sensing platforms in chemistry, biotechnology, and medicine. Contributions by an international panel of experts provide timely and in-depth coverage of both real-world applications and academic research in the dynamic field. The authors describe advances in nanotechnology, polymer chemistry, and biomedicine, explore new and emerging applications of plasmonic sensing, discuss future trends and potential research directions, and more. This authoritative volume: Demonstrates why plasmonic sensing is a profitable method for easy and label-free analysis in real-time Covers a variety of applications of plasmonic sensors, such as disease diagnostics, vitamin detection, and detection of chemical and biological warfare agents Includes a brief introduction to the history and development of plasmonic sensors Provides concise theory and background for every application covered in the text **Plasmonic Sensors and their Applications** is an invaluable resource for analytical chemists, biochemists, biotechnologists, protein and surface chemists, and advanced students of biotechnology.

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