

History And Applications Of Diamond Like Carbon

Peerawatt Nunthavarawong, Sanjay Mavinkere Rangappa, Suchart Siengchin, Kuniaki Dohda

Engineering Applications of Diamond Awadesh Mallik, 2021-08-18 Diamond offers many advantages over other wide-bandgap materials and thus is a very important material in engineering applications. It can be used in high-speed electronics and response systems as well as high-power laser windows, protective coatings, electrochemical sensors, and more. This book examines the properties, advantages, and potential applications of diamonds in engineering and other fields.

Diamond-Like Carbon Coatings Peerawatt Nunthavarawong, Sanjay Mavinkere Rangappa, Suchart Siengchin, Kuniaki Dohda, 2022-08-08 Diamond-like carbons (DLCs) display a number of attractive properties that make them versatile coating materials for a variety of applications, including extremely high hardness values, very low friction properties, very low gas permeability, good biocompatibility, and very high electrical resistivity, among others. Further research into this material is required to produce hydrogen-free DLC films and to synthesize it together with other materials, thereby obtaining better film properties. *Diamond-Like Carbon Coatings: Technologies and Applications* examines emerging manufacturing technologies for DLCs with the aim of improving their properties for use in practical applications. Discusses DLC coatings used in mechanical, manufacturing, and medical applications Details recent developments in the novel synthesis of DLC films Covers advances in understanding of chemical, structural, physical, mechanical, and tribological properties for modern material processing Highlights methods to yield longer service life Considers prospects for future applications of emerging DLC technologies This work is aimed at materials science and engineering researchers, advanced students, and industry professionals.

Carbon Nanomaterial Electronics: Devices and Applications Arnab Hazra, Rupam Goswami, 2021-05-22 This book brings together selective and specific chapters on nanoscale carbon and applications, thus making it unique due to its thematic content. It provides access to the contemporary developments in carbon nanomaterial research in electronic applications. Written by professionals with thorough expertise in similar broad area, the book is intended to address multiple aspects of carbon research in a single compiled edition. It targets professors, scientists and researchers belonging to the areas of physics, chemistry, engineering, biology and medicine, and working on theory, experiment and applications of carbon nanomaterials.

Advanced Materials and Engineering Materials VIII Peng Sheng Wei, 2019-07-29 8th International Conference on

Advanced Materials and Engineering Materials (ICAMEM 2019) Selected, peer reviewed papers from the 8th International Conference on Advanced Materials and Engineering Materials, (ICAMEM 2019), April 18-19, 2019, Hong Kong, China

Proceedings of ITS-IFTToMM 2024 Enrico Ciulli,

Tribology of Diamond-like Carbon Films Christophe Donnet, Ali Erdemir, 2007-12-06 This book highlights some of the most important structural, chemical, mechanical and tribological characteristics of DLC films. It is particularly dedicated to the fundamental tribological issues that impact the performance and durability of these coatings. The book provides reliable and up-to-date information on available industrial DLC coatings and includes clear definitions and descriptions of various DLC films and their properties.

Carbon Nanomaterials: Modeling, Design, and Applications Kun Zhou, 2019-07-17 Carbon Nanomaterials: Modeling, Design, and Applications provides an in-depth review and analysis of the most popular carbon nanomaterials, including fullerenes, carbon nanotubes, graphene and novel carbon nanomaterial-based membranes and thin films, with emphasis on their modeling, design and applications. This book provides basic knowledge of the structures, properties and applications of carbon-based nanomaterials. It illustrates the fundamental structure-property relationships of the materials in both experimental and modeling aspects, offers technical guidance in computational simulation of nanomaterials, and delivers an extensive view on current achievements in research and practice, while presenting new possibilities in the design and usage of carbon nanomaterials. This book is aimed at both undergraduate and graduate students, researchers, designers, professors, and professionals within the fields of materials science and engineering, mechanical engineering, applied physics, and chemical engineering.

Handbook of Carbon, Graphite, Diamonds and Fullerenes Hugh O. Pierson, 2012-12-02 This book is a review of the science and technology of the element carbon and its allotropes: graphite, diamond and the fullerenes. This field has expanded greatly in the last three decades stimulated by many major discoveries such as carbon fibers, low-pressure diamond, and the fullerenes. The need for such a book has been felt for some time. These carbon materials are very different in structure and properties. Some are very old (charcoal), others brand new (the fullerenes). They have different applications and markets and are produced by different segments of the industry. Few studies are available that attempt to review the entire field of carbon as a whole discipline. Moreover these studies were written several decades ago and are generally outdated since the development of the technology is moving very rapidly and scope of applications is constantly expanding and reaching into new fields such as aerospace, automotive, semiconductors, optics, and electronics. In this book the author provides a valuable, up-to-date account of both the newer and traditional forms of carbon, both naturally occurring and man-made. This volume will be a valuable resource for both specialists in, and occasional users of carbon materials.

Microfluidics: History, Theory and Applications William B. J. Zimmerman, 2006-06-27 Microfluidics is a

microtechnological field dealing with the precise transport of fluids (liquids or gases) in small amounts (e.g. microliters, nanoliters or even picoliters). This book provides a useful introduction into this burgeoning field, and a specific application of microfluidics is presented. It also gives a survey of microfluidics.

Handbook of Functionalized Carbon Nanostructures Ahmed Barhoum, Kalim Deshmukh, 2024-11-30 This book highlights all newly reported carbon nanostructures including graphene and its derivatives, carbon nanotubes, metal organic frameworks, fullerenes, nanorods, nanospheres, nano onions, porous nanoparticles, nanohorns, nanofibers and nanoribbons, nanodiamonds, graphitic carbon nitrides, carbon aerogels and hydrogels, graphdiyne and graphenylene. It presents the historical development of carbon nanostructures technologies, different types and classifications, and different fabrication and functionalization techniques, including outer/inner surface functionalization and covalent and noncovalent functionalization. This Handbook discusses the unique properties of functionalized carbon nanostructures that can be obtained by modifying their structures, composition, and surface. It gives the reader an in-depth look at the current achievements of research and practice while pointing you ahead to new possibilities in functionalizing and using carbon nanomaterials. Finally, it covers the various applications of functionalized carbon nanostructures including adsorbents, additives, active materials in energy accumulating systems (batteries, hydrogen storage systems, and supercapacitors), filtering media, catalysts or supports for catalysts, sensors or substrates for sensors, additives for polymers, ceramic composites, metal and carbon alloys, glasses, digital textiles, and composite materials.

Tribological Behavior of Functional Surface Pawel Pawlus, Andrzej Dzierwa, 2021-08-31 Material loss due to wear and corrosion and high resistance to motion generate high costs. Therefore, minimizing friction and wear is a problem of great importance. This book is focused on the tribological behavior of functional surfaces. It contains information regarding the improvement of tribological properties of sliding elements via changes in surface topography. Tribological impacts of surface texturing depending on the creation of dimples on co-acting surfaces are also discussed. The effects of various coatings on the minimization of friction and wear and corrosion resistance are also studied. Friction can be also reduced by introducing a new oil.

Plasma Applications for Material Modification Francisco L. Tabarés, 2021-09-24 This book is an up-to-date review of the most important plasma-based techniques for material modification, from microelectronics to biological materials and from fusion plasmas to atmospheric ones. Each its technical chapters is written by long-experienced, internationally recognised researchers. The book provides a deep and comprehensive insight into plasma technology and its associated elemental processes and is illustrated throughout with excellent figures and references to complement each section. Although some of the topics covered can be traced back several decades, care has been taken to emphasize the most recent findings and expected evolution. The first time the word 'plasma' appeared in print in a scientific text related to the study of

electrical discharges in gases was 1928, when Irving Langmuir published his article 'Oscillations in Ionized Gases'. It was the baptism of the predominant state of matter in the known universe (it is estimated that up to 99% of matter is plasma), although not on earth, where the conditions of pressure and temperature make normal the states of matter (solid, liquid, gas) which, in global terms, are exotic. It is enough to add energy to a solid (in the form of heat or electromagnetic radiation) to go into the liquid state, from which gas is obtained through an additional supply of energy. If we continue adding energy to the gas, we will partially or totally ionise it and reach a new state of matter, plasma, made up of free electrons, atoms and molecules (electrically neutral particles) and ions (endowed with a positive or a negative electric charge).

Synthetic Diamond Karl E. Spear, John P. Dismukes, 1994-04-04 A riveting look at the science, technology and people involved in overcoming early impracticalities of the fledgling chemical vapor deposition (CVD) synthesis method and its development in today's state of commercial readiness. Provides insights into numerous vapor phase techniques. Surveys the synthesis, structure, properties and applications of diamondlike carbon. Details current and rapidly emerging applications, manufacturing and markets.

Materials for Medical Application Robert B. Heimann, 2020-08-24 This book gives an introduction to the highly interdisciplinary field of biomaterials. It concisely summarizes properties, synthesis and modification of materials such as metals, ceramics, polymers or composites. Characterization, in vitro and in vivo testing as well as a selection of various applications are also part of this inevitable guide.

Synthesis and Applications of Nanocarbons Jean-Charles Arnault, Dominik Eder, 2020-09-21 A crucial overview of the cutting-edge in nanocarbon research and applications In *Synthesis and Applications of Nanocarbons*, the distinguished authors have set out to discuss fundamental topics, synthetic approaches, materials challenges, and various applications of this rapidly developing technology. Nanocarbons have recently emerged as a promising material for chemical, energy, environmental, and medical applications because of their unique chemical properties and their rich surface chemistries. This book is the latest entry in the Wiley book series *Nanocarbon Chemistry and Interfaces* and seeks to comprehensively address many of the newly surfacing areas of controversy and development in the field. This book introduces foundational concepts in nanocarbon technology, hybrids, and applications, while also covering the most recent and cutting-edge developments in this area of study. *Synthesis and Applications of Nanocarbons* addresses new discoveries in the field, including: · Nanodiamonds · Onion-like carbons · Carbon nanotubes · Fullerenes · Carbon dots · Carbon fibers · Graphene · Aerographite This book provides a transversal view of the various nanocarbon materials and hybrids and helps to share knowledge between the communities of each material and hybrid type.

Handbook of Surfaces and Interfaces of Materials, Five-Volume Set Hari Singh Nalwa, 2001-10-26 This handbook brings together, under a single cover, all aspects of the chemistry, physics, and engineering of surfaces and interfaces of materials

currently studied in academic and industrial research. It covers different experimental and theoretical aspects of surfaces and interfaces, their physical properties, and spectroscopic techniques that have been applied to a wide class of inorganic, organic, polymer, and biological materials. The diversified technological areas of surface science reflect the explosion of scientific information on surfaces and interfaces of materials and their spectroscopic characterization. The large volume of experimental data on chemistry, physics, and engineering aspects of materials surfaces and interfaces remains scattered in so many different periodicals, therefore this handbook compilation is needed. The information presented in this multivolume reference draws on two decades of pioneering research on the surfaces and interfaces of materials to offer a complete perspective on the topic. These five volumes-Surface and Interface Phenomena; Surface Characterization and Properties; Nanostructures, Micelles, and Colloids; Thin Films and Layers; Biointerfaces and Applications-provide multidisciplinary review chapters and summarize the current status of the field covering important scientific and technological developments made over past decades in surfaces and interfaces of materials and spectroscopic techniques with contributions from internationally recognized experts from all over the world. Fully cross-referenced, this book has clear, precise, and wide appeal as an essential reference source long due for the scientific community. The complete reference on the topic of surfaces and interfaces of materials The information presented in this multivolume reference draws on two decades of pioneering research Provides multidisciplinary review chapters and summarizes the current status of the field Covers important scientific and technological developments made over past decades in surfaces and interfaces of materials and spectroscopic techniques Contributions from internationally recognized experts from all over the world

Diamond Nanotechnology James Sung, Jianping Lin, 2010 In this book you find out that nanodiamond is not only widely used as polishing superabrasives, but also in cosmetics and medicine. --Book Jacket.

Advanced Manufacturing Processes III Volodymyr Tonkonogyi, Vitalii Ivanov, Justyna Trojanowska, Gennadii Oborskyi, Ivan Pavlenko, 2021-11-17 This book offers a timely snapshot of innovative research and developments at the interface between manufacturing, materials and mechanical engineering, and quality assurance. It covers a wide range of manufacturing processes, such as grinding, boring, milling, turning, woodworking, coatings, including additive manufacturing. It focuses on laser, ultrasonic, and combined laser-ultrasonic hardening treatments, and dispersion hardening. It describes tribology and functional analysis of coatings, separation, purification and filtration processes, as well as ecological recirculation and electrohydraulic activation, highlighting the growing role of digital twins, optimization and lifecycle management methods, and quality inspection processes. It also covers cutting-edge heat and mass transfer technologies and energy management methods. Gathering the best papers presented at the 3rd Grabchenko's International Conference on Advanced Manufacturing Processes (InterPartner-2021), held in Odessa, Ukraine, on September 7-10, 2021, this book offers a timely overview and extensive information on trends and technologies in manufacturing, mechanical, and materials engineering,

and quality assurance. It is also intended to facilitate communication and collaboration between different groups working on similar topics and to offer a bridge between academic and industrial researchers.

Pure and Functionalized Carbon Based Nanomaterials Pawel K. Zarzycki,2020-07-02 This book describes in a comprehensive manner latest studies conducted by various research groups worldwide focusing on carbon and related nanomaterials. Fourteen chapters of this book deal with a number of key research topics and applications of pure and functionalized carbon nanomaterials and their hybrid nanocomposites. Specifically, the authors have presented interdisciplinary investigations including: (i) carbon nanoparticles and layers synthesis, (ii) analytical aspects of carbon nanomaterials and their characterisation under different conditions as well as (iii) various applications of carbon nanoparticles. They have reported and summarised key applications of carbon particles or nanoobjects in pharmacy, biomedicine, agriculture and food industry, water treatment, physicochemical analysis, optoelectronics, electronic and magnetic materials for supercapacitors or radar adsorbing materials, tribology, chromatography, electrophoresis, bioanalysis, nanobiocatalysis, biofuels production as well as environmental remediation.

Diamond and Carbon Composites and Nanocomposites Mahmood Aliofkhazraei,2016-06-29 During the past few years, scientists have achieved significant successes in nanoscience and technology. Nanotechnology is a branch of science that deals with fine structures and materials with very small dimensions - less than 100 nm. The composite science and technology have also benefits from nanotechnology. This book collects new developments about diamond and carbon composites and nanocomposites and their use in manufacturing technology.

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