Diamond Like Carbon Dlc Coating

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

Applications of Diamond-like Carbon Coatings Abdul Wasy Zia,2025-04-01 An incisive guide to diamond-like carbon (DLC) coatings and their contemporary applications In Applications of Diamond-like Carbon Coatings, distinguished researcher Dr. Abdul Wasy Zia delivers an insightful and up-to-date discussion of the latest advancements in new and non-conventional applications of diamond-like carbon (DLC) coatings. The editor explains the transformation of typical topics into advanced applications of DLC, including tribology for future transportation solutions, green lubrication, invasive implants, MEMS, optical devices, and more. The book also details advanced and contemporary trends in DLC coatings, like material informatics involving artificial intelligence and machine learning, and new, net-zero applications, including energy storage batteries. Readers will also find: A thorough introduction to applications of DLC coatings in mechanics, transportation, medicine, and electrical and optical device manufacture Comprehensive explorations of emerging trends in DLC coatings, including green energy, data-centric approaches, textile and plastics, and carbon circularity from DLC coated products Practical discussions of how small and medium industries can design and develop DLC coatings for broad engineering applications Complete treatments of the benefits and opportunities presented by DLC coating applications Perfect for postgraduate students and researchers with an interest in DLC coatings, Applications of Diamond-like Carbon Coatings will also benefit scholars and instructors in academia, technical managers, scientists, engineers, and corporate research and development professionals with backgrounds in chemistry, materials science, polymer chemistry, and physical chemistry.

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.

Applications of Diamond-like Carbon Coatings Abdul Wasy Zia,2025-03-18 An incisive guide to diamond-like carbon (DLC) coatings and their contemporary applications In Applications of Diamond-like Carbon Coatings, distinguished researcher Dr. Abdul Wasy Zia delivers an insightful and up-to-date discussion of the latest advancements in new and non-conventional applications of diamond-like carbon (DLC) coatings. The editor explains the transformation of typical topics into

advanced applications of DLC, including tribology for future transportation solutions, green lubrication, invasive implants, MEMS, optical devices, and more. The book also details advanced and contemporary trends in DLC coatings, like material informatics involving artificial intelligence and machine learning, and new, net-zero applications, including energy storage batteries. Readers will also find: A thorough introduction to applications of DLC coatings in mechanics, transportation, medicine, and electrical and optical device manufacture Comprehensive explorations of emerging trends in DLC coatings, including green energy, data-centric approaches, textile and plastics, and carbon circularity from DLC coated products Practical discussions of how small and medium industries can design and develop DLC coatings for broad engineering applications Complete treatments of the benefits and opportunities presented by DLC coating applications Perfect for postgraduate students and researchers with an interest in DLC coatings, Applications of Diamond-like Carbon Coatings will also benefit scholars and instructors in academia, technical managers, scientists, engineers, and corporate research and development professionals with backgrounds in chemistry, materials science, polymer chemistry, and physical chemistry.

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.

Optically Transparent, Scratch-resistant, Diamond-like Carbon Coatings ,2003 A plasma-based method for the deposition of diamond-like carbon (DLC) coatings is described. The process uses a radio-frequency inductively coupled discharge to generate a plasma at relatively low gas pressures. The deposition process is environmentally friendly and scaleable to large areas, and components that have geometrically complicated surfaces can be processed. The method has been used to deposit adherent 100-400 nm thick DLC coatings on metals, glass, and polymers. These coatings are between three and four times harder than steel and are therefore scratch resistant, and transparent to visible light. Boron and silicon doping of the DLC coatings have produced coatings having improved optical properties and lower coating stress levels, but

with slightly lower hardness.

Adherent Diamond Like Carbon Coatings on Metals Via Plasma Source Ion Implantation ,1996 Various techniques are currently used to produce diamond-like carbon (DLC) coatings on various materials. Many of these techniques use metallic interlayers, such as Ti or Si, to improve the adhesion of a DLC coating to a ferrous substrate. An alternative processing route would be to use plasma source ion implantation (PSII) to create a carbon composition gradient in the surface of the ferrous material to serve as the interface for a DLC coating. The need for interlayer deposition is eliminated by using a such a graded interfaces PSII approach has been used to form adherent DLC coatings on magnesium, aluminum, silicon, titanium, chromium, brass, nickel, and tungsten. A PSII process tailored to create a graded interface allows deposition of adherent DLC coatings even on metals that exhibit a positive heat of formation with carbon, such as magnesium, iron, brass and nickel.

Bioceramics Joon Park,2009-03-02 Bioceramics: Properties, Characterization, and Applications will be a general introduction to the uses of ceramics and glasses in the human body for the purposes of aiding, healing, correcting deformities, and restoring lost function. With over 30 years experience, the author developed the text as an outgrowth of an undergraduate course for senior students in biomedical engineering and will emphasize the fundamentals and applications in modern implant fabrication, and will also deal with tissue engineering scaffolds made of ceramics. Organized as a textbook for the student needing to acquire the core competencies, it will meet the demands of advanced undergraduate or graduate coursework in bioceramics, biomaterials, biomedical engineering, and biophysics.

Materials and Coatings for Medical Devices ,2009-01-01 The Materials Information Society, MPMD-Materials and Processes for Medical Devices.

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.

Nanomaterials-Based Coatings Phuong Nguyen Tri,Sami Rtimi,Claudiane M. Ouellet-Plamondon,2019-05-30

Nanomaterials-Based Coatings: Fundamentals and Applications presents the fundamental concepts and applications of nanomaterial-based coatings in anticorrosion, antiwear, antibacterial, antifungal, self-cleaning, superhydrophobic, super hard, super heat resistance, solar reflective, photocatalytic and radar absorbing coatings. It is an important resource for those seeking to understand the underlying phenomenal and fundamental mechanisms through which nanoparticles interact with polymeric and metallic matrices to create stronger coatings. As nanomaterials-enforced coatings are smarter, stronger and more durable, the information listed in this book will helps readers understand their usage and further applications. - Highlights the latest methods in design, preparation and characterization techniques for nanomaterials-based coatings - Discusses emerging applications of nanomaterials-based coatings, including substrates protection, sustainable energy, and in the environment and healthcare - Assesses the major challenges in making nanomaterials-based coatings more reliable and cost-effective

Biological and Biomedical Coatings Handbook Sam Zhang,2016-04-19 Written in a versatile, contemporary style that will benefit both novice and expert alike, Biological and Biomedical Coatings Handbook, Two-Volume Set covers the state of the art in the development and implementation of advanced thin films and coatings in the biological field. Consisting of two volumes-Processing and Characterization and Applicatio

Compilation of Diamond-like Carbon Properties for Barriers and Hard Coatings ,1994 Diamond-like carbon (DLC) is an amorphous form of carbon which resembles diamond in its hardness, lubricity, and resistance to chemical attack. Such properties make DLC of interest for use in barrier and hard coating technology. This report examines a variety of properties of DLC coatings. This includes examining substrates on which DLC coatings can be deposited; the resistance of DLC coatings to various chemical agents; adhension of DLC coatings; and characterization of DLC coatings by electron microscopy, FTIR, sputter depth profiling, stress measurements and nanoindentation.

Biomanufacturing Chander Prakash,Sunpreet Singh,Rupinder Singh,Seeram Ramakrishna,B. S. Pabla,Sanjeev Puri,M. S. Uddin,2019-03-20 Current Trends in Biomanufacturing focuses on cutting-edge research regarding the design, fabrication, assembly, and measurement of bio-elements into structures, devices, and systems. The field of biomaterial and biomanufacturing is growing exponentially in order to meet the increasing demands of for artificial joints, organs and bone-fixation devices. Rapid advances in the biological sciences and engineering are leading to newer and viable resources, methods and techniques that may providing better quality of life and more affordable health care services. The book covers the broad aspects of biomanufacturing, including: synthesis of biomaterials; implant coating techniques; spark plasma sintering; microwave processing; and cladding, powder metallurgy and electrospinning. The contributors illustrate the recent trends of biomanufacturing, highlighting theimportant aspects of biomaterial synthesis, and their use as feedstock of fabrication technologies and their characterization, along with their clinical practices. Current Trends in Biomanufacturing

updates researchers and scientists the novelties and techniques of the field, as it summarises numerous aspects of biomanufacturing, including synthesis of biomaterials, fabrication of biomedical structures, their in-vivo/ in-vitro, mechanical analysis and associated ISO standards.

Materials For Total Joint Arthroplasty: Biotribology Of Potential Bearings Robert Sonntag,Jan Philippe Kretzer,2015-10-14 The replacement of a degenerated joint such as the hip and knee is one of the most outstanding interventions that allows the medical community to restore the patient's quality of life. However, today's patient is increasingly younger and more active and this presents a challenge for the orthopaedic community as a greater demand has been created for a longer lasting artificial joint that can allow the patient to maintain their lifestyle and thus new approaches in biotribology have been focused on this area of research.This invaluable book provides a broad introduction to the boundary conditions, developments and latest research activities already available to the surgeon and offers an insight into solutions being developed for new high performance bearings in joint replacements. The contributors are leading experts in their field and this is the first complete volume to bring together such unique insights. Orthopaedic engineers, surgeons and researchers concerned with new biomaterials would find this a vital reference volume to evaluate the latest state of research in the area.

Applied Nanoindentation in Advanced Materials Atul Tiwari,Sridhar Natarajan,2017-08-30 Research in the area of nanoindentation has gained significant momentum in recent years, but there are very few books currently available which can educate researchers on the application aspects of this technique in various areas of materials science. Applied Nanoindentation in Advanced Materials addresses this need and is a comprehensive, self-contained reference covering applied aspects of nanoindentation in advanced materials. With contributions from leading researchers in the field, this book is divided into three parts. Part one covers innovations and analysis, and parts two and three examine the application and evaluation of soft and ceramic-like materials respectively. Key features: A one stop solution for scholars and researchers to learn applied aspects of nanoindentation Contains contributions from leading researchers in the field Includes the analysis of key properties that can be studied using the nanoindentation technique Covers recent innovations Includes worked examples Applied Nanoindentation in Advanced Materials is an ideal reference for researchers and practitioners working in the areas of nanotechnology and nanomechanics, and is also a useful source of information for graduate students in mechanical and materials engineering, and chemistry. This book also contains a wealth of information for scientists and engineers interested in mathematical modelling and simulations related to nanoindentation testing and analysis.

Thin Films and Coatings in Biology Soroush Nazarpour,2013-08-15 The surface of materials is routinely exposed to various environmental influences. Surface modification presents a technological challenge for material scientists, physicists, and engineers, particularly when those surfaces are subjected to function within human body environment. This book

provides a comprehensive coverage of the major issues and topics dealing with interaction of soft living matter with the surface of implants. Fundamental scientific concepts are embedded through experimental data and a broad range of case studies. First chapters cover the basics on biocompatibility of many different thin films of metals, alloys, ceramics, hydrogels, and polymers, following with case studies dealing with orthopedic and dental coatings. Next, a novel and low-cost coating deposition technique capable of production of several types of nanostructures is introduced through simple calculations and several illustrations. Moreover, chapter 6 and 7 present important topics on surface treatment of polymers, which is a subject that has seen many developments over the past decade. The last chapters target mainly the applications of coatings in biology such as in bio-sensing, neuroscience, and cancer detection. With several illustrations, micrographs, and case studies along with suitable references in each chapter, this book will be essential for graduate students and researchers in the multidisciplinary field of bio-coatings.

Handbook of Nanoceramic and Nanocomposite Coatings and Materials Abdel Salam Hamdy Makhlouf,Dieter Scharnweber,2015-05-08 In this new handbook, top researchers from around the world discuss recent academic and industrial advances in designing ceramic coatings and materials. They describe the role of nanotechnology in designing high performance nanoceramic coatings and materials in terms of the unique advantages that can be gained from the nano scale, including the latest techniques for the synthesis and processing of ceramic and composite coatings for different applications. - Focuses on the most advanced technologies for industry-oriented nano-ceramic and nano-composite coatings, including recent challenges for scaling up nano-based coatings in industry - Covers the latest evaluation methods for measuring coatings performance - Discusses novel approaches for improving the performance of ceramic and composite coatings and materials via nanotechnology - Provides the most recent and advanced techniques for surface characterization

The Adult Hip Aaron G. Rosenberg,Harry E. Rubash,John Clohisy,Paul Beaule,Craig DellaValle,2015-10-13 This two volume set contains comprehensive coverage of management of disorders of the adult hip. It includes all arthroscopic and open procedures as well as extensive coverage of equipment and prostheses.

Time Dependent Constitutive Behavior and Fracture/Failure Processes, Volume 3 Tom Proulx,2025-08-07 This the third volume of six from the Annual Conference of the Society for Experimental Mechanics, 2010, brings together 56 chapters on Time-Dependent Constitutive Fracture and Failure. It presents early findings from experimental and computational investigations on Time Dependent Materials including contributions on Thermal and Mechanical Characterization, Coupled Experimental and Computational Analysis of Fracture Path Selection, Procedures for Mixed Mode Fracture Testing of Bonded Beams, and Experimental Study of Voids in High Strength Aluminum Alloys.

Coatings Tribology Kenneth Holmberg,Allan Matthews,2009-03-18 The surface coating field is a rapidly developing area of science and technology that offers new methods and techniques to control friction and wear. New coating types are

continually being developed and the potential applications in different industrial fields are ever growing, ranging from machine components and consumer products to medical instruments and prostheses. This book provides an extensive review of the latest technology in the field, addressing techniques such as physical and chemical vapour deposition, the tribological properties of coatings, and coating characterization and performance evaluation techniques. Eleven different cases are examined in close detail to demonstrate the improvement of tribological properties and a guide to selecting coatings is also provided. This second edition is still the only monograph in the field to give a holistic view of the subject and presents all aspects, including test and performance data as well as insights into mechanisms and interactions, thus providing the level of understanding vital for the practical application of coatings. * An extensive review of the latest developments in the field of surface coatings* Presents both theory and practical applications* Includes a guide for selecting coatings

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