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Lubricant Additives BoD – Books on Demand

High-performance bioceramics, such as zirconia, alumina, and their composites, are attractive materials for the fabrication of load-bearing bone implants because of their outstanding mechanical properties, biocompatibility, corrosion resistance, and aesthetic quality. However, a lot of additional work is still needed on these ceramics before their full potential as implant materials can be exploited, especially in the area of surface optimization. The two most important issues relating to the surface of ceramic implants that need to be addressed are surface chemistry and topography. They both have an influence on protein adsorption and cell behavior and play a key role in providing sufficient biomechanical stability for the long-term success of implants. Therefore, extensive studies have been performed that are aimed at a better understanding of how specific surface modifications affect the biological response. In this chapter, various surface-modification techniques are described and their potential for improving the osseointegration of ceramic implants is discussed.

Blumberg on Corporate Groups **Academic Press**

Thermal Spray 2007: Global Coating Solutions: Proceedings of the 2007 International Thermal Spray ConferenceASM

InternationalOfficial Gazette of the United States Patent and Trademark OfficeAdvanced Coating MaterialsJohn Wiley & Sons

Official Gazette of the United States Patent Office
John Wiley & Sons

In engineering, there are often situations in which the material of the main component is unable to sustain long life or protect itself from adverse operating environments. Moreover, in some cases, different material properties such as anti-friction and wear, anti-corrosive, thermal resistive, super hydrophobic, etc. are required as per the operating conditions. If those bulk components are made of such materials and possess those properties, the cost will be very high. In such cases, a practical solution is surface coating, which serves as a protective barrier to the bulk material from the adverse environment. In the last decade, with enormous effort, researchers and scientists have developed suitable materials to overcome those unfavorable operating conditions, and they have used advanced deposition techniques to enhance the adhesion and surface texturing of the coatings. Advanced Surface Coating Techniques for Modern Industrial Applications is a highly sought reference source that compiles the recent research trends in these new and emerging surface coating materials, deposition techniques, properties of coated materials, and their applications in various engineering and industrial fields. The book particularly focuses on 1) coating materials including anti-corrosive materials and nanomaterials, 2) coating methods including thermal spray and electroless disposition, and 3) applications such as surface engineering and thin film application. The book is ideal for engineers, scientists, researchers, academicians, and students working in fields like material science, mechanical engineering, tribology, chemical and corrosion science, bio-medical engineering, biomaterials, and aerospace engineering.

Handbook of Antimicrobial Coatings

CRC Press

This new five volume "Second Edition" of "Blumberg on

Advanced Ceramics for Dentistry

ASM International

This volume is part of the Ceramic Engineering and Science Proceeding (CESP) series. This series contains a collection of papers dealing with issues in both traditional ceramics (i.e., glass, whitewares, refractories, and porcelain enamel) and advanced ceramics. Topics covered in the area of advanced ceramic include bioceramics, nanomaterials, composites, solid oxide fuel cells, mechanical properties and structural design, advanced ceramic coatings, ceramic armor, porous ceramics, and more.

Thermal Spray 2001 CRC Press

Exploring advanced ceramic coatings and ultra-high temperature ceramic materials, this issue brings readers up-to-date with important new and emerging findings, materials, and applications. The nineteen papers in this issue originate from two symposia and one focused session held in January 2012, during the 36th International Conference on Advanced Ceramics and

Composites (ICACC). With contributions from leading ceramics and materials researchers from around the world, this issue explores the latest advances and key challenges in advanced thermal and environmental coating processing and characterizations, advanced wear corrosion-resistant, nanocomposite, and multi-functional coatings, thermal protection systems, and more.

Ward's Business Directory of U.S. Private and Public Companies John Wiley & Sons Vols. for 1970-71 includes manufacturers' catalogs.

Journal of Protective Coatings & Linings Causey Enterprises, LLC

Direct-Write Technologies covers applications, materials, and the techniques in using direct-write technologies. This book provides an overview of the different direct write techniques currently available, as well as a comparison between the strengths and special attributes for each of the techniques. The techniques described open the door for building prototypes and testing materials. The book also provides an overview of the

state-of-the-art technology involved in this field. Basic academic researchers and industrial development engineers who pattern thin film materials will want to have this text on their shelves as a resource for specific applications. Others in this or related fields will want the book to read the introductory material summarizing isuses common to all approaches, in order to compare and contrast different techniques. Everyday applications include electronic components and sensors, especially chemical and biosensors. There is a wide range of research and development problems requiring state-of-the-art direct write tools. This book will appeal to basic researchers and development engineers in university engineering departments and at industrial and national research laboratories. This text should appeal equally well in the United States, Asia, and Europe. Both basic academic researchers and industrial development engineers who pattern thin film materials will want to have this text on their shelves as a resource for specific applications. An overview of the

different direct write techniques currently available A comparison between the strengths and special attributes for each of the techniques An overview of the state-of-the-art technology involved in this field

Brands and Their Companies ScholarlyEditions

Sulfur Acids—Advances in Research and Application: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Sulfinic Acids. The editors have built Sulfur Acids—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Sulfinic Acids in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Sulfur Acids—Advances in Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies.

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Direct-Write Technologies for Rapid Prototyping Applications John Wiley & Sons

This volume is part of the Ceramic Engineering and Science Proceeding (CESP) series. This series contains a collection of papers dealing with issues in both traditional ceramics (i.e., glass, whitewares, refractories, and porcelain enamel) and advanced ceramics. Topics covered in the area of advanced ceramic include bioceramics, nanomaterials, composites, solid oxide fuel cells, mechanical properties and structural design, advanced ceramic coatings, ceramic armor, porous ceramics, and more.

20th Annual Conference on

Composites, Advanced Ceramics, Materials, and Structures - B Wolters Kluwer

This book covers the recent advances in coating materials and their novel applications at the cross-section of advanced materials both current and next-generation. Advanced Coatings Materials contains chapters covering the latest research on polymers, carbon resins, and high-temperature materials used for coatings, adhesives, and varnishes today. Concise chapters describe the development, chemical and physical properties, synthesis and polymerization, commercial uses, and other characteristics for each raw material and coating detailed. A comprehensive, yet practical source of reference, this book provides an excellent foundation for comparing the properties and performance of coatings and selecting the most suitable materials based on specific service needs and environmental factors.

Chicago Telephone Directory ASM International

Handbook of Antimicrobial Coatings is the first comprehensive work on the developments being made in the

emerging field of antimicrobial coatings. Crucial aspects associated with coating research are presented in the form of individual chapters. Particular close attention has been given to essential aspects necessary to understand the properties of novel materials. The book introduces the reader to progress being made in the field, followed by an outline of applications in different areas. Various methods and techniques of synthesis and characterization are detailed as individual chapters. Chapters provide insight into the ongoing research, current trends and technical challenges in this rapidly progressing field. The covered topics were chosen so that they can be easily understood by new scholars as well as advanced learners. No book has been written on this topic thus far with so much crucial information for materials scientists, engineers and technologists. Offers the first comprehensive work on developments being made in the emerging field of antimicrobial coatings Features updates written by leading experts in the field of anti-microbial coatings Includes discussions of coatings for novel materials Provides various methods and techniques of synthesis and characterization detailed in individual chapters

John Wiley & Sons

This multi-volume set is a primary source for basic company and industry information. Names,

addreses, SIC code, and geographic location of over 135,000 U.S. companies are included.

Nanocoatings and Ultra-Thin Films John Wiley & Sons

Papers from The American Ceramic Society's 31st International Conference on Advanced Ceramics and Composites, held in Daytona Beach, Florida, January 21-26, 2007. Focuses on recent advances in coating development, processing, structural design, microstructure and property characterization, and life prediction.

CFI Springer Science & Business Media

Recently, plasma spray has been received a large number of attentions for various type of applications due to the nature of the plasma plume and deposition structure. The plasma gas generated by the arc, consists of free electrons, ionized atoms, some neutral atoms, and undissociated diatomic molecules. The temperature of the core of the plasma jet may exceed up to 30,000 K. Gas velocity in the plasma spray torch can be varied from subsonic to supersonic using converging-diverging nozzles. Heat transfer in the plasma jet is primarily the result of the recombination of the ions and re-association of atoms in diatomic gases on the powder surfaces and absorption of radiation. Taking advantages of the plasma plume atmosphere, plasma spray can be used for surface modification and

treatment, especially for activation of polymer surfaces. I addition, plasma spray can be used to deposit nanostructures as well as advanced coating structures for new applications in wear and corrosion resistance. Some state-of-the-art studies of advanced applications of plasma spraying such as nanostructure coatings, surface modifications, biomaterial deposition, and anti wear and corrosion coatings are presented in this book.

Advanced Technical Ceramics Directory and Databook John Wiley & Sons

This basic source for identification of U.S. manufacturers is arranged by product in a large multi-volume set. Includes: Products & services, Company profiles and Catalog file.

Advanced Coating Materials Elsevier Inc. Chapters

This indispensable book describes lubricant additives, their synthesis, chemistry, and mode of action. All important areas of application are covered, detailing which lubricants are needed for a particular application. Laboratory and field performance data for each application is provided and the design of cost-effective, environmentally friendly technologies is

fully explored. This edition includes new chapters on chlorohydrocarbons, foaming chemistry and physics, antifoams for nonaqueous lubricants, hydrogenated styrene–diene viscosity modifiers, alkylated aromatics, and the impact of REACh and GHS on the lubricant industry.

AERO TRADER & CHOPPER SHOPPER, AUGUST 1998 Elsevier

This volume is part of the Ceramic Engineering and Science Proceeding (CESP) series. This series contains a collection of papers dealing with issues in both traditional ceramics (i.e., glass, whitewares, refractories, and porcelain enamel) and advanced ceramics. Topics covered in the area of advanced ceramic include bioceramics, nanomaterials, composites, solid oxide fuel cells, mechanical properties and structural design, advanced ceramic coatings, ceramic armor, porous ceramics, and more.

Advanced Ceramic Coatings and Interfaces II, Volume 28, Issue 3 Thermal Spray 2007: Global Coating Solutions: Proceedings of the 2007 International Thermal Spray Conference

Development of new drug molecules is costly and requires longitudinal, wide-ranging studies; therefore, designing advanced pharmaceutical formulations for existing and well-known drugs seems to be an attractive device for the pharmaceutical industry. Properly formulated drug delivery systems can improve pharmacological activity, efficacy and safety of the active substances. Advanced materials applied as pharmaceutical excipients in designing drug delivery systems can help solve problems concerning the required drug release—with the defined dissolution rate and at the determined site. Novel drug carriers enable more effective drug delivery, with improved safety and with fewer side effects. Investigations concerning advanced materials represent a rapidly growing research field in material/polymer science, chemical engineering and pharmaceutical technology. Exploring novel materials or modifying and combining existing ones is now a crucial

trend in pharmaceutical technology. Eleven articles included in the the Special Issue “Advanced Materials in Drug Release and Drug Delivery Systems” present the most recent insights into the utilization of different materials with promising potential in drug delivery and into different formulation approaches that can be used in the design of pharmaceutical formulations.

Pennsylvania Technology Directory

IGI Global

Coatings are used for a wide range of applications, from anti-fogging coatings for glass through to corrosion control in the aerospace and automotive industries. Nanocoatings and ultra-thin films provides an up-to-date review of the fundamentals, processes of deposition, characterisation and applications of nanocoatings. Part one covers technologies used in the creation and analysis of thin films, including chapters on current and advanced coating technologies in industry, nanostructured thin films from amphiphilic molecules, chemical and physical vapour deposition methods and methods for analysing nanocoatings and ultra-thin films. Part two focuses on the applications of nanocoatings and ultra-thin films, with chapters covering topics such as

nanocoatings for architectural glass, packaging applications, conventional and smart nanocoatings for corrosion protection in aerospace engineering and ultra-thin membranes for sensor applications. With its distinguished editors and international team of contributors, Nanocoatings and ultra-thin films is an essential reference for professional engineers in the glazing, consctruction, electronics and transport industries, as well as all those with an academic research interest in the field. Provides an up-to-date review of the fundamentals, processes of deposition, characterisation and applications of nanocoatings Focuses on the applications of nanocoatings and ultra-thin films, covering topics such as nanocoatings for architectural glass, packaging applications and ultra-thin membranes for sensor applications Includes chapters on current and advanced coating technologies in industry, nanostructured thin films from amphiphilic molecules, chemical and physical vapour deposition methods and methods for analysing nanocoatings and ultra-thin films