

Hans G. Börner
Jean-François Lutz *Editors*

Bioactive Surfaces

Bioactive Surfaces Advances In Polymer Science

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Bioactive Surfaces Hans G. Börner,Jean-Francois Lutz,2011-06-01 Erik Wischerhoff Nezha Badi Andr Laschewsky and Jean Fran ois Lutz Smart Polymer Surfaces Concepts and Applications in Biosciences S Petersen M Gattermayer and M Biesalski Hold on at the Right Spot Bioactive Surfaces for the Design of Live Cell Micropatterns Julien Polleux Interfacing Cell Surface Receptors to Hybrid Nanopatterned Surfaces A Molecular Approach for Dissecting the Adhesion Machinery Abigail Pulsipher and Muhammad N Yousaf Self Assembled Monolayers as Dynamic Model Substrates for Cell Biology D Volodkin A Skirtach and H M hwald LbL Films as Reservoirs for Bioactive Molecules R Gentsch and H G B rner Designing Three Dimensional Materials at the Interface to Biology Joerg C Tiller Antimicrobial Surfaces *Research Perspectives on Functional Micro- and Nanoscale Coatings* Zuzuarrregui, Ana,Morant-Miñana, Maria Carmen,2016-04-11 Just as chemistry is a part of our daily lives functional coatings can be found in almost every object gadget or device you can see or touch However in the last 20 years the advances made in the preparation of different functional coatings with diverse compositions have allowed the development of nanoscale coatings that are more cost effective and environmentally conscious than traditional coatings Research Perspectives on Functional Micro and Nanoscale Coatings highlights critical research on preparation methods modification organization and utilization of functional coatings in micro nano and biotechnology Emphasizing emerging developments and global research perspectives this publication is a pivotal resource for engineers researchers and graduate level students interested in learning about emerging developments in functional coatings and nanotechnology

Advances in Sustainable Biomaterials Ajay Kumar,D. K. Rajak,Parveen Kumar,Ashwini Kumar,2024-10-28 Sustainable biomaterials are used as substitutions for traditional materials in aerospace automotive civil mechanical environmental engineering medical and other industries This book presents the current knowledge and recent developments on the characterization and application of sustainable biomaterials with biomanufacturing 4 0 techniques The book also describes the unique properties of various classes of sustainable biomaterials making them highly suitable for many industrial applications Advances in Sustainable Biomaterials Bioprocessing 4 0 Characterizations and Applications presents key chapters on smart biopolymer composites production and processing methods and provides a wide range of applications in a variety of fields such as medical food agriculture electronics manufacturing and chemical engineering The book features the most recent and detailed information on advancements in biopolymer biomaterials and emphasizes synthesis characterization modeling manufacturing and testing strategies Written to be used as a resource guide on biomaterials and innovations undergraduate and postgraduate students studying manufacturing and materials science will find this book very useful in addition to those working in mechanical engineering biomedical engineering manufacturing of pharmaceuticals biotechnology and electronics engineering fields The book can also be used as additional classroom reading for an advanced course on biomaterials modeling and optimization

Current Materials for Industrial Technologies and Engineering

Practice Rozana Mohd Dahan,Ahmad Zafir Romli,Mohd Rozi Ahmad,Dzaraini Kamarun,2015-12-29 Selected peer reviewed papers from the International Conference on Applied Sciences and Industrial Technology 2015 ICASIT2015 February 24 26 2015 Negeri Sembilan Malaysia

Advanced Polymer Life Science Jens Friedrichs,Uwe Freudenberg,Carsten Werner,2025-05-20 Advanced Polymer Life Science targets recent progress in the exploration of functional polymeric structures of living matter the design and fabrication of a broad range of biology inspired polymer materials as well as their dedicated applications in the life sciences and beyond The book covers both fundamental and applied research showcasing the intricate and interconnected bioanalytical and preparative approaches that characterize contemporary biomaterials science It features contributions from world leading experts and emerging talents in the field addressing enduring challenges with innovative methodologies and exploring newly emerging topics Collectively the chapters of the book underscore the scope and the power of macromolecular chemistry physics and engineering in the advent of bio interactive materials that blur the boundaries of naturally evolved and man made systems Deepening the reader s understanding of the captivating interdisciplinary field of polymer biomaterials science the book is to encourage further scientific research to understand living nature and solve urgent societal needs

Dyes and Chromophores in Polymer Science Jacques Lalevée,Jean-Pierre Fouassier,2015-05-04 The design and development of dyes and chromophores have recently attracted much attention in various research fields such as materials radiation curing laser imaging optics medicine microelectronics nanotechnology etc In this book the recent research for the use of dyes and chromophores in polymer science is presented The interaction of the visible light with the dyes or the selected chromophores is particularly important in different fields e g for photovoltaic display applications LED laser imaging or laser direct writing green chemistry with sunlight induced photopolymerization etc This book gives an overview of the dyes and chromophores for all the important fields

Electrospinning for Advanced Energy and Environmental Applications Sara Cavaliere,2015-09-01 Electrospinning for Advanced Energy and Environmental Applications delivers a state of the art overview of the use of electrospun fibers in energy conversion and storage as well as in environmental sensing and remediation It first introduces electrospinning and its origins outlining achievable one dimensional nanoscaled materials and their applications It then discusses the use of electrospun materials in energy devices including low and high temperature fuel cells hydrogen storage dye sensitized solar cells lithium ion batteries and supercapacitors It also explores environmental applications such as the use of electrospinning issued materials in membranes for water and air purification and in sensors and biosensors for pollution control

Advanced Materials Forum VI Ana Maria Pires Pinto, António Sergio Pouzada,2012-11-12 Selected peer reviewed papers from the Proceedings of the VI International Materials Symposium Materiais 2011 XV Encontro da Sociedade Portuguesa de Materiais SPM Universidade do Minho April 18 20 2011 Guimar es Portugal

Functionalization of Olefin Polymers and Fibers Through Free-radical Graft Polymerization in Reactive Extrusion Mohammad Reza

Badrossamay,2008 *Development and Characterization of Genetically Engineered M13 Bacteriophage as Tissue Engineering Materials* Anna Merzlyak,2009 Polymer Preprints, Japan ,2002 Advanced Materials Forum V Luis Guerra Rosa,Fernanda Margarido,2010-01-12 Selected peer reviewed papers from the V International Materials Symposium MATERIAiS 2009 14th meeting of SPM Sociedade Portuguesa de Materiais Instituto Superior T cnico Technical University of Lisbon April 5 8 Lisbon Portugal 2009 SPSJ ... Annual Meeting Kōbunshi Gakkai (Japan),Kōbunshi Gakkai (Japan),,2002 **Advanced Biomaterials** ,2007 **The Cumulative Book Index** ,1990 A world list of books in the English language *Memoirs of the Scientific Sections of the Academy of the Socialist Republic of Romania* ,2003 Advanced Materials Forum Three Paula Maria Vilarinho,2006 Applns of Biomaterials in Facial Plastic Surgery Frederick H. Silver,1991-05-13 *Polymers for Bioactive Surfaces* ,2005 **Annals of the New York Academy of Sciences** Thomas Lincoln Casey,Gilbert Van Ingen,Charles Lane Poor,Edmund Otis Hovey,Ralph Winfred Tower,1987 Records of meetings 1808 1916 in v 11 27

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