

AAP Research Notes on Polymer Engineering Science & Technology

Polymer Surfaces and Interfaces

Acid-Base Interactions and Adhesion
in Polymer-Metal Systems

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Polymer Surfaces

Mark Strobel, C. S. Lyons, K. L. Mittal

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Polymer Surfaces Fabio Garbassi, M. Morra, Ernesto Occhiello, 1994-02-15 Polymer Surfaces From Physics to Technology is divided into four main sections Firstly the origins and physical principles governing the properties of polymer surfaces are considered Next the authors discuss methods of characterization particularly spectroscopic and those connected to surface energetics

Polymer Surfaces and Interfaces Manfred Stamm, 2008-01-26 In what is an extremely practical and applicable new work experts provide concise explanations with examples and illustrations of the key techniques in this important field In each case after basic principles have been reviewed applications of the experimental techniques are discussed and illustrated with specific examples Scientists and engineers in research and development will benefit from an application oriented book that helps them to find solutions to both fundamental and applied problems They will know that the surfaces and interfaces of polymers play an important role in most of the application areas of polymers from moulds foils and composites to biomaterials and applications in micro and nanotechnology

Polymer Surfaces and Interfaces K. L. Mittal, K. W. Lee, 1997-04 Polymeric materials are used for a legion of applications in a wide array of technological areas and their proper surface interface characteristics are of cardinal importance for their applications Therefore the need to characterize polymer surfaces interfaces and their suitable modification to impart desired characteristics is quite patent This book chronicles the proceedings of the Symposium on Polymer Surfaces and Interfaces Characterization Modification and Application held as a part of the Society of Plastics Engineers Annual Technical Conference Boston May 7 11 1995 The articles in this book address many aspects of polymer surfaces and interfaces Topics covered include various ways chemical photochemical laser flame corona to modify polymer surfaces modification of contact lens surfaces various ways to analyze characterize polymer surfaces metal polymer interfaces metal polyimide adhesion metal self assembled organic monolayer interfaces polymer alignment layers for liquid crystals alignment of liquid crystal surfaces polyimide alignment layers molecular re orientation of polymer surfaces plasma polymerized organic coatings epoxy fiber interphase epoxy underfill materials for packaging integrated circuits transport in polymers polymer miscibility and cell adhesion

Lubricating Polymer Surfaces Yoshikimi Uyama, 1998-04-30 A lubricating polymer surface is important especially in biomedical technologies Low friction surfaces enable easy insertion and removal of devices from patients Earlier approaches were mostly simple applications involving lubricants such as lidocaine jelly silicone oil or non permanent coating with low friction materials such as polyethylene or fluoroplastics However these substances cannot maintain a high degree of slipperiness for the required duration of time This book describes the principle of lubrication outlines a variety of methods for attaining a lubricous surface and describes the characteristics and properties of such lubricous surfaces

Physicochemical Aspects of Polymer Surfaces K. L. Mittal, 2013-03-13 This and its companion Volume 2 document the proceedings of the International Symposium on Physicochemical Aspects of Polymer Surfaces held under the auspices of the American Chemical Society in

New York City August 23 28 1981 This event was sponsored by the Division of Colloid and Surface Chemistry and the Divisions of Organic Coatings and Plastics Chemistry and Industrial and Engineering Chemistry were the cosponsors The study of polymer surfaces is important from both fundamental and applied points of view The applications of polymers are legion and wherever polymers are used their surface characteristics inter alia are of great concern and importance and the areas where polymers find applications range from microelectronics to prosthetics In the last decade or so the availability of various sophisticated surface analytical techniques particularly ESCA has been a boon in enhancing our knowledge of polymer surfaces This Symposium was designed to bring together scientists and technologists interested in all aspects of polymer surfaces to provide a forum for discussion of various ramifications of polymer surfaces to discover the latest developments to provide an opportunity for cross pollination of ideas and to highlight areas which are in a state of rapid development and those which need intensified efforts If the comments from attendees is any barometer of the success of an event then this Symposium was a grand success and the above objectives were amply fulfilled

Polymer Surfaces and Interfaces: Characterization, Modification and Application Kash L. Mittal, 2023-01-06 Polymeric materials are used for a legion of applications in a wide array of technological areas and their proper surface interface characteristics are of cardinal importance for their applications Therefore the need to characterize polymer surfaces interfaces and their suitable modification to impart desired characteristics is quite patent This book chronicles the proceedings of the Symposium on Polymer Surfaces and Interfaces Characterization Modification and Application held as a part of the Society of Plastics Engineers Annual Technical Conference Boston May 7 11 1995 The articles in this book address many aspects of polymer surfaces and interfaces Topics covered include various ways chemical photochemical laser flame corona to modify polymer surfaces modification of contact lens surfaces various ways to analyze characterize polymer surfaces metal polymer interfaces metal polyimide adhesion metal self assembled organic monolayer interfaces polymer alignment layers for liquid crystals alignment of liquid crystal surfaces polyimide alignment layers molecular re orientation of polymer surfaces plasma polymerized organic coatings epoxy fiber interphase epoxy underfill materials for packaging integrated circuits transport in polymers polymer miscibility and cell adhesion

Surface Modification of Polymers Jean Pinson, Damien Thiry, 2019-12-04 A guide to modifying and functionalizing the surfaces of polymers *Surface Modification of Polymers* is an essential guide to the myriad methods that can be employed to modify and functionalize the surfaces of polymers The functionalization of polymer surfaces is often required for applications in sensors membranes medicinal devices and others The contributors noted experts on the topic describe the polymer surface in detail and discuss the internal and external factors that influence surface properties This comprehensive guide to the most important methods for the introduction of new functionalities is an authoritative resource for everyone working in the field This book explores many applications including the plasma polymerization technique organic surface functionalization by initiated chemical vapor deposition photoinduced

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Polymer Surfaces, Interfaces And Thin Films Alamgir Karim, Sanat Kumar, 2000-04-19 The theoretical and experimental study of polymers polymer surfaces and thin films has undergone a revolution in the last 25 years This book captures recent advances in this field It covers equilibrium aspects kinetics and reactions at interfaces It is aimed not only at a research audience but also at beginners

Polymer Surfaces and Interfaces W. J. Feast, 1987-04-28 A collection of review papers which give an up to date interdisciplinary view of current technology and research on polymer surfaces Contributors are drawn from both academia and industry and represent a cross section of subject interests

Physicochemical Aspects of Polymer Surfaces K. L. Mittal, 1983

Polymer Surfaces Valente Erasmio Silva, 2018 Polymer surfaces having micro nanostructures can be produced using injection molding and hot embossing high efficiency techniques able to meet the needs of industry for the mass production of polymer parts Micro nanosurfaces are in great demand for multiple applications that include antipollution and self cleaning surfaces microlenses dry adhesion surfaces antireflection coatings cell culturing and differentiation as well as superhydrophobic surfaces Polymer Surfaces Fabrication Modification and Applications discusses the injection molding of micro nanostructured polymer surfaces consists of three main technical steps mold inserts processing parameters and demolding The authors also discuss the capabilities of various demolding methods such as antistiction coatings to protect and enhance the surface properties of micro nanostructures The subsequent contribution focuses on biocompatible and biodegradable hollow nanoparticles prepared via the layer by layer deposition of polymer thin films on sacrificial templates The review encompasses all aspects of nanocapsules from preparation through characterization and the applications as drug carriers A promising strategy is proposed for facilely and successively replicating randomly arranged pyramids on an etched silicon wafer to polystyrene surface The authors propose that this fast and efficient replication strategy could be an excellent candidate for developing antireflective protective layers without complicated procedures and expensive materials A promising strategy was proposed for facilely and successively replicating the natural functional nanostructure of the cicada wing onto polystyrene surfaces in the concluding study This work may direct the design of gradient wetting surfaces by mimicking the nanopillar structure of

cicada wing This strategy could aid in mimicking bio inspired functional micro nanostructures without complicated procedures and expensive materials

Superhydrophobic Polymer Surfaces Iskender Yilgoer, 2016-11-23 Surface properties play critical roles in determining the durability and overall performance of polymeric materials for applications in many different fields Recent investigations on naturally superhydrophobic surfaces such as plant leaves and insect wings led to a clear understanding of the close relationship between surface topography roughness chemical structure and superhydrophobicity This led to a dramatic increase in research efforts on the preparation and characterisation of polymeric systems with superhydrophobic surfaces Current and potential uses of such materials in a wide range of applications also make them commercially very attractive The main focus of this book is to provide a comprehensive overview of the new developments regarding the preparation and characterisation of superhydrophobic polymeric surfaces A large number of methods used in the preparation of robust and durable superhydrophobic polymer surfaces and their advantages and disadvantages are discussed Close relationship between the polymer composition hierarchical micro nano surface topography and superhydrophobic behavior are provided In addition to the practical aspects special emphasis is also given to the discussion of the theoretical foundations of the wetting behavior of rough surfaces Nature is the ultimate guide for the preparation of functional materials and surfaces As discussed in detail in the book using biomimetic approaches it is possible to design and produce superhydrophobic surfaces with interesting functionalities The most critical tasks for the scientists and engineers working in the field seem to be i to clearly understand the relations between surface compositions topography and surface properties ii to develop simple laboratory techniques and commercially viable production methods to produce superhydrophobic surfaces and devices mimicking the natural systems and iii to demonstrate novel applications in research laboratory and develop commercial applications for these materials with smart and multifunctional surfaces This book provides a clear understanding of the theoretical foundations of superhydrophobicity together with practical experimental guidance for the preparation of such polymeric surfaces to researchers and application engineers working in the field

Plasma Surface Modification of Polymers Mark Strobel, C. S. Lyons, K. L. Mittal, 1994-07 This book is a collection of invited papers previously published in special issues of the Journal of Adhesion Science and Technology written by internationally recognized researchers actively working in the field of plasma surface modification It provides a current comprehensive overview of the plasma treatment of polymers In contrast to plasma polymerization plasma surface modification reactions do not cause thin film deposition and can therefore only modify the surface properties of organic substrates Plasma surface modifications are fast efficient methods for improving the adhesion properties and other surface characteristics of a variety of polymeric materials The focus of this volume is on adhesion phenomena surface properties and the surface characterization of plasma treated materials This book opens with a critical review of the plasma surface modification of polymers for improved adhesion The remainder of the papers are divided into two sections one dealing with the

characterization of plasma treated surfaces and the second concerned with various practical applications of plasma treated surfaces

Polymer Surface Characterization Luigia Sabbatini, 2014-07-28 *Polymer Surface Characterization* provides a comprehensive approach to the surface analysis of polymers of technological interest by means of modern analytical techniques Basic principles operative conditions applications performance and limiting features are supplied together with current advances in instrumental apparatus Each chapter is devoted to one technique and is self consistent the end of chapter references would allow the reader a quick access to more detailed information After an introductory chapter techniques that can interrogate the very shallow depth of a polymer surface spanning from the top few angstroms in secondary ions mass spectrometry to 2 10 nm in X ray photoelectron spectroscopy are discussed followed by Fourier transform infrared spectroscopy and chapters on characterization by scanning probe microscopy electron microscopies wettability and spectroscopic ellipsometry

Polymer Surfaces B. W. Cherry, 1981-01-29 The aim of this 1981 book designed for senior undergraduates postgraduates and professionals is to draw together in one unified presentation a number of the phenomena associated with polymer surfaces The author begins by describing the theory of surface tension in terms of intermolecular forces and then goes on to consider the practical problem of the factors involved when a liquid wets a polymeric surface and forms a bond to it An account of polymeric adhesives and their different spheres of application follows and an examination of the mechanism of failure of adhesive joints leads to a discussion of joint design for optimum strength and environmental resistance A chapter on friction is closely related to that on adhesion and the final chapter is devoted to specific frictional mechanisms associated with high hysteresis polymers as well as an introductory discussion of wear

Polymer Surfaces and Interfaces II W. J. Feast, H. S. Munro, R. W. Richards, 1993-04-28 A collection of review papers which give an up to date interdisciplinary view of current technology and research on polymer surfaces Contributors are drawn from both academia and industry and represent a cross section of subject interests

Handbook of Aluminum Bonding Technology and Data J. D. Minford, 1993-06-16 A reference that offers comprehensive discussions on every important aspect of aluminum bonding for each level of manufacturing from mill finished to deoxidized conversion coated anodized and painted surfaces and provides an extensive up to date review of adhesion science covering all significant aspects

The Plasma Chemistry of Polymer Surfaces Jörg Friedrich, 2012-05-29 More than 99% of all visible matter in the universe occurs as highly ionized gas plasma with high energy content Electrical low and atmospheric pressure plasmas are characterized by continuous source of moderate quantities of energy or enthalpy transferred predominantly as kinetic energy of electrons Therefore such energetically unbalanced plasmas have low gas temperature but produce sufficient energy for inelastic collisions with atoms and molecules in the gas phase thus producing reactive species and photons which are able to initiate all types of polymerizations or activate any surface of low reactive polymers However the broadly distributed energies in the plasma exceed partially the binding energies in polymers thus initiating very often unselective reactions and polymer

degradation The intention of this book is to present new plasma processes and new plasma reactions of high selectivity and high yield This book aims to bridge classical and plasma chemistry particularly focusing on polymer chemistry in the bulk and on the surface under plasma exposure The stability of surface functionalization and the qualitative and quantitative measurement of functional groups at polymer surface are featured prominently and chemical pathways for suppressing the undesirable side effects of plasma exposure are proposed and illustrated with numerous examples Special attention is paid to the smooth transition from inanimate polymer surfaces to modified bioactive polymer surfaces A wide range of techniques plasma types and applications are demonstrated

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