

Laser Surface Modification and Adhesion



Edited by K.L. Mittal and Thomas Bahners

Laser Surface Modification And Adhesion Adhesion And Adhesives Fundamental And Applied Aspects

Peter C. Neligan



Laser Surface Modification And Adhesion Adhesion And Adhesives Fundamental And Applied Aspects:

Laser Surface Modification and Adhesion K. L. Mittal, Thomas Bahners, 2014-09-18 The book provides a unique overview on laser techniques and applications for the purpose of improving adhesion by altering surface chemistry and topography morphology of the substrate It details laser surface modification techniques for a wide range of industrially relevant materials plastics metals ceramics composites with the aim to improve and enhance their adhesion to other materials The joining of different materials is of critical importance in the fabrication of many and varied products

Polymer Surface Modification to Enhance Adhesion K. L. Mittal, Anil N. Netravali, 2024-03-01 POLYMER SURFACE MODIFICATION TO ENHANCE ADHESION This unique comprehensive and groundbreaking book is the first on this important subject Polymer Surface Modification to Enhance Adhesion comprises 13 chapters and is divided into two parts Part 1 Energetic Treatments and Part 2 Chemical Treatments Topics covered include atmospheric pressure plasma treatment of polymers to enhance adhesion corona treatment of polymer surfaces to enhance adhesion flame surface treatment of polymers to enhance adhesion vacuum UV photo oxidation of polymer surfaces to enhance adhesion optimization of adhesion of polymers using photochemical surface modification UV Ozone surface treatment of polymers to enhance adhesion adhesion enhancement of polymer surfaces by ion beam treatment polymer surface modification by charged particles laser surface modification of polymeric materials competition in adhesion between polysort and monosort functionalized polyolefinic surfaces amine terminated dendritic materials for polymer surface modification arginine glycine aspartic acid RGD modification of polymer surfaces and adhesion promoters for polymer surfaces Audience The book will be of great interest to polymer scientists surface scientists adhesionists materials scientists plastics engineers and to those involved in adhesive bonding packaging printing painting metallization biological adhesion biomedical devices and polymer composites

Laser Technology K. L. Mittal, Wei-Sheng Lei, 2018-01-17 The acronym Laser is derived from Light Amplification by Stimulated Emission of Radiation With the advent of the ruby laser in 1960 there has been tremendous research activity in developing novel more versatile and more efficient laser sources or devices as lasers applications are ubiquitous Today lasers are used in many areas of human endeavor and are routinely employed in a host of diverse fields various branches of engineering microelectronics biomedical medicine dentistry surgery surface modification to name just a few In this book containing 10 chapters we have focused on application of lasers in adhesion and related areas The topics covered include Topographical modification of polymers and metals by laser ablation to create superhydrophobic surfaces Non ablative laser surface modification Laser surface modification to enhance adhesion Laser surface engineering of materials to modulate their wetting behavior Laser surface modification in dentistry Laser polymer welding Laser based adhesion testing technique to measure thin film substrate interface toughness Laser surface removal of hard thin ceramic coatings Laser removal of particles from surfaces Laser induced thin film debonding for micro device fabrication applications **Selected**

Proceedings of the 7th Space Resources Conference Michał Lupa, Tadeusz Uhl, Jakub Stasz, Karolina Pargieła, Anna Malczewska, 2025-08-25 This book collects advances innovations and applications in the field of space resources and exploration as presented by international researchers at the 7th Space Resources Conference KGK held in Krak w Poland on May 23 24 2024 The book serves as a forum for discussion on the state of the art technologies applicable to current challenges of space exploration the use of space resources to improve the living conditions of humans and protect Earth s natural environment and the latest research results on space resource extraction transportation manufacturing in space and how to develop settlements on the Moon and Mars Topics include bioastronautics and life support systems Earth observation and sensors issues space law subspace missions space industry society and space space education and space structures design and operations The book which is selected by means of a rigorous peer review process presents a wealth of exciting ideas that will open novel research directions and foster multidisciplinary collaboration among different specialists

Progress in Adhesion and Adhesives, Volume 2 K. L. Mittal, 2017-06-15 With the ever increasing amount of research being published it is a Herculean task to be fully conversant with the latest research developments in any field and the arena of adhesion and adhesives is no exception Thus topical review articles provide an alternate and very efficient way to stay abreast of the state of the art in may subjects representing the field of adhesion science and adheisves Based on the success and the warm reception accorded to the premier volume in this series Progress in Adhesion and Adhesives containing the review articles published in Volume 2 2014 of the journal Reviews of Adhesion and Adhesives RAA volume 2 comprises 14 review articles published in Volume 4 2016 of RAA The subjects of these 14 reviews fall into the following general areas 1 Surface modification of polymers for a variety of purposes 2 Adhesion aspects in reinforced composites 3 Thin films coatings and their adhesion measurement 4 Bioadhesion and bio implants 5 Adhesives and adhesive joints 6 General adhesion aspects The topics covered include surface modification of natural fibers for reinforced polymer composites adhesion of submicrometer thin metals films surface treatments to modulate bioadhesion hot melt adhesives from renewable resources particulate polymer composites functionally graded adhesively bonded joints fabrication of nano biodevices effects of particulates on contact angles thermal stresses in adhesively bonded joints and ways to mitigate these laser assisted electroless metallization of polymer materials adhesion measurement of coatings on biodevices implants cyanoacrylate adhesives and adhesion of green flame retardant coatings onto polyolefins

Progress in Adhesion and Adhesives K. L. Mittal, 2015-07-27 This book is based on the 13 review articles written by subject experts and published in 2014 in the Journal Reviews of Adhesion and Adhesives The rationale for publication of this book is that currently the RAA has limited circulation so this book provides broad exposure and dissemination of the concise critical illuminating and thought provoking review articles The subjects of the reviews fall into 4 general areas 1 Polymer surface modification 2 Biomedical pharmaceutical and dental fields 3 Adhesives and adhesive joints 4 General Adhesion Aspects The topics covered include

Adhesion of condensed bodies at microscale imparting adhesion property to silicone material functionally graded adhesively bonded joints synthetic adhesives for wood panels adhesion theories in wood adhesive bonding adhesion and surface issues in biocomposites and bionanocomposites adhesion phenomena in pharmaceutical products and applications of AFM cyanoacrylate adhesives in surgical applications ways to generate monosort functionalized polyolefin surfaces nano enhanced adhesives bonding dissimilar materials in dentistry flame treatment of polymeric materials relevance to adhesion and mucoadhesive polymers for enhancing retention of ocular drug delivery

Polyimides Malay Ghosh,1996-07-23 Provides coverage on the full range of topics associated with polyimides including structure polymer fundamentals and product areas The text addresses both basic and applied aspects of the subject It details the synthesis of polyimides polyamideimides and flourinated polyimides explains the molecular design of photosensitive polyimides and more

Metallized Plastics 2 K.L. Mittal,2013-11-11 This volume documents the proceedings of the Second Symposium on Metallized Plastics Fundamental and Applied Aspects held under the aegis of the Dielectric Science and Technology Division of the Electrochemical Society in Montreal Canada May 7 10 1990 The first symposium on this topic was held in Chicago October 10 12 1988 and the proceedings of which have been chronicled in a hard bound volume I As pointed out in the Preface to the proceedings of the first symposium the metallized plastics find scores of applications ranging from very mundane to very sophisticated Even a cursory look at the literature will convince that this field has sprouted and there is every reason to believe that with all the research and development activities taking place new and exciting applications of metallized plastics will emerge The program for the second symposium was very comprehensive as it included 46 papers covering many aspects of metallized plastics This symposium was a testimonial to the brisk research activity and keen interest in the topic of metallized plastics The success of this symposium reinforced our earlier belief that there was a definite need to hold symposia on this topic on a regular basis Concomitantly the third symposium in this vein was held in Phoenix Arizona October 13 18 1991 and the fourth is planned for May 16 21 1993 in Honolulu Hawaii As regards the present volume it contains a total of 35 papers covering a variety of topics ranging from very fundamental to very applied

Laser surface treatment of a polymeric biomaterial: David Garreth Waugh,Jonathan Lawrence,2014-02-01 Biotechnology has the potential to improve people's quality of life and holds the key to many unmet clinical needs In the UK alone the biotechnology market is worth 4.5 billion and estimates of future growth range from 10 to 15% This growth can only be driven by the increased use of inexpensive and easy to manufacture polymeric biomaterials Although polymer science is a rapidly developing area of research it remains that one of the most intractable problems encountered in biotechnology is that the performance of polymeric biomaterials depend upon both the bulk and surface properties In this book the authors describe their work using lasers to modify the wettability characteristics of nylon 6,6 as wetting is often the primary factor dictating the adhesion and bonding potential of materials as a route to enhancing the surface in terms of in vitro osteoblast cell response What is more modifying wettability

characteristics in this way is shown to be a highly attractive means of estimating the biofunctionality of a polymer The book demonstrates and explains how the generation of a biomimetic surface on polymers using laser beams provides an in vitro platform on which to deposit and grow cells for either the development of implants or to reconstitute functional tissue The correlative trends and generic characteristics which are identified in the book between the laser surface treatment wettability characteristics and osteoblast cell response of the nylon 6 6 provide a means to estimate the osteoblast cell response in vivo The book shows clearly that laser surface modification of polymeric materials has tremendous potential for application within the field of regenerative medicine

Characterization of Polymers Ned J. Chou, 2010 Polymers are organic often complex molecular compounds used as the building blocks for plastics elastomers and various types of synthetic engineered materials Polymer scientists and chemists are not always familiar with the characterization methods best used for polymeric materials And knowing what characterization technology works best can make a huge difference in getting an accurate understanding of internal and surface microstructure and ultimately desired properties for the myriads of polymer applications in use today Useful case studies help to better illustrate the common types of problems and challenges when characterizing polymers Review of basic polymer structures and synthesis routes as well as chemical composition Characterization techniques appropriate for morphology of surfaces interfaces and thin films Useful background on polymer surface thermodynamics as well as adhesion properties and polymer polymer interfaces properties and characterization techniques

Adhesion to Fluoropolymers Derek Brewis, Ralf H. Dahm, 2006 Journal of Research of the National Bureau of Standards United States. National Bureau of Standards, 1975 NBS Publications Newsletter, 1964 A newsletter for librarians documentalists and science information specialists

Progress in Adhesion and Adhesives, Volume 6 K. L. Mittal, 2021-08-16 With the voluminous research being published it is difficult if not impossible to stay abreast of current developments in a given area The review articles in this book consolidate information to provide an alternative way to follow the latest research activity and developments in adhesion science and adhesives With the ever increasing amount of research being published it is a Herculean task to be fully conversant with the latest research developments in any field and the arena of adhesion and adhesives is no exception Thus topical review articles provide an alternate and very efficient way to stay abreast of the state of the art in many subjects representing the field of adhesion science and adhesives The 19 chapters in this Volume 6 follow the same order as the review articles originally published in RAA in the year 2020 and up to June 2021 The subjects of these 19 chapters fall in the following areas Adhesives and adhesive joints Contact angle Reinforced polymer composites Bioadhesives Icephobic coatings Adhesives based on natural resources Polymer surface modification Superhydrophobic surfaces The topics covered include hot melt adhesives adhesively bonded spar wingskin joints contact angle hysteresis fiber matrix adhesion in reinforced thermoplastic composites bioadhesives in biomedical applications mucoadhesive pellets for drug delivery applications bio inspired icephobic coatings wood adhesives based on natural

resources adhesion in biocomposites vacuum UV surface photo oxidation of polymers and other materials vitrimers and their relevance to adhesives superhydrophobic surfaces by microtexturing structural acrylic adhesives mechanically durable water repellent surfaces mussel inspired underwater adhesives and cold atmospheric pressure plasma technology for modifying polymers Audience This book will be valuable and useful to researchers and technologists in materials science nanotechnology physics surface and colloid chemistry in multiple disciplines in academia industry various research institutes and other organizations *Advances in Contact Angle, Wettability and Adhesion, Volume 2* K. L. Mittal, 2015-10-05 This book is the second volume in the series Contact Angle Wettability and Adhesion The premier volume was published in 2013 Even a cursory glance at the literature show that in recent years the interest in understanding and controlling wetting behavior has grown exponentially Currently there is tremendous research activity in rendering surfaces superhydrophobic superhydrophilic superoleophobic superoleophilic omniphobic and omniphilic because of their applications in many technologically important fields Also the durability or robustness of materials with such super characteristics is extremely significant as well as the utilization of green biobased materials to obtain such surfaces This book containing 19 articles reflects more recent developments in certain areas covered in its predecessor volume as well as it includes some topics which were not covered before Concomitantly this book provides a medium to keep abreast of the latest research activity and developments in the arena of contact angle wettability and adhesion The topics discussed include Understanding of wetting hysteresis fabrication of superhydrophobic materials plasma treatment to achieve superhydrophilic surfaces highly liquid repellent textiles modification of paper surfaces to control liquid wetting and adhesion Cheerios effect and its control engineering materials with superwettability laser ablation to create micro nano patterned surfaces liquid repellent amorphous carbon nanoparticle networks mechanical durability of liquid repellent surfaces wetting of solid walls and spontaneous capillary flow relationship between roughness and oleophilicity superhydrophobic and superoleophobic green materials computational analysis of wetting on hydrophobic surfaces application to self cleaning mechanisms bubble adhesion to superhydrophilic surfaces surface free energy of superhydrophobic materials and role of surface free energy in pharmaceutical tablet tensile strength **Particle Adhesion and Removal** K. L. Mittal, Ravi Jaiswal, 2015-02-02 The book provides a comprehensive and easily accessible reference source covering all important aspects of particle adhesion and removal The core objective is to cover both fundamental and applied aspects of particle adhesion and removal with emphasis on recent developments Among the topics to be covered include 1 Fundamentals of surface forces in particle adhesion and removal 2 Mechanisms of particle adhesion and removal 3 Experimental methods e g AFM SFA SFM IFM etc to understand particle particle and particle substrate interactions 4 Mechanics of adhesion of micro and nanoscale particles 5 Various factors affecting particle adhesion to a variety of substrates 6 Surface modification techniques to modulate particle adhesion 7 Various cleaning methods both wet dry for particle removal 8 Relevance of particle adhesion in a host of technologies

ranging from simple to ultra sophisticated Applied Mechanics Reviews ,1987 **Scientific and Technical Aerospace Reports** ,1988 *Applied Science & Technology Index* ,1996 **Plastic Surgery E-Book: 6 - Volume Set** Peter C. Neligan,2012-09-15 Fully updated to meet the demands of the 21st century surgeon Plastic Surgery provides you with all the most current knowledge and techniques across your entire field allowing you to offer every patient the best possible outcome Edited by Drs Mathes and Hentz in its last edition this six volume plastic surgery reference now features new expert leadership a new organization new online features and a vast collection of new information delivering all the state of the art know how you need to overcome any challenge you may face Renowned authorities provide evidence based guidance to help you make the best clinical decisions get the best results from each procedure avoid complications and exceed your patients expectations Consult this title on your favorite e reader conduct rapid searches and adjust font sizes for optimal readability Compatible with Kindle nook and other popular devices Apply the very latest advances in every area of plastic surgery and ensure optimal outcomes with evidence based advice from a diverse collection of world leading authorities Master the latest on stem cell therapy tissue engineering and inductive therapies aesthetic surgical techniques and nonsurgical treatments conjoined twin separation and other craniofacial surgery advances microsurgical lymphatic reconstruction super microsurgery and sternal fixation autologous lipofilling of the breast nerve transfers in hand surgery hand allotransplantation and functional prosthetics and much much more Easily find the answers you need with a new organization that features separate volumes covering Principles Aesthetic Craniofacial Head and Neck Surgery Lower Extremity Trunk and Burns Breast and Hand and Upper Extremity plus a more templated user friendly high yield presentation Visualize procedures more clearly through an abundance of completely redrawn full color illustrations and new color clinical photographs Access the complete fully searchable contents of each volume online download all the tables and figures view 160 procedural videos and take advantage of additional content and images at www.expertconsult.com

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