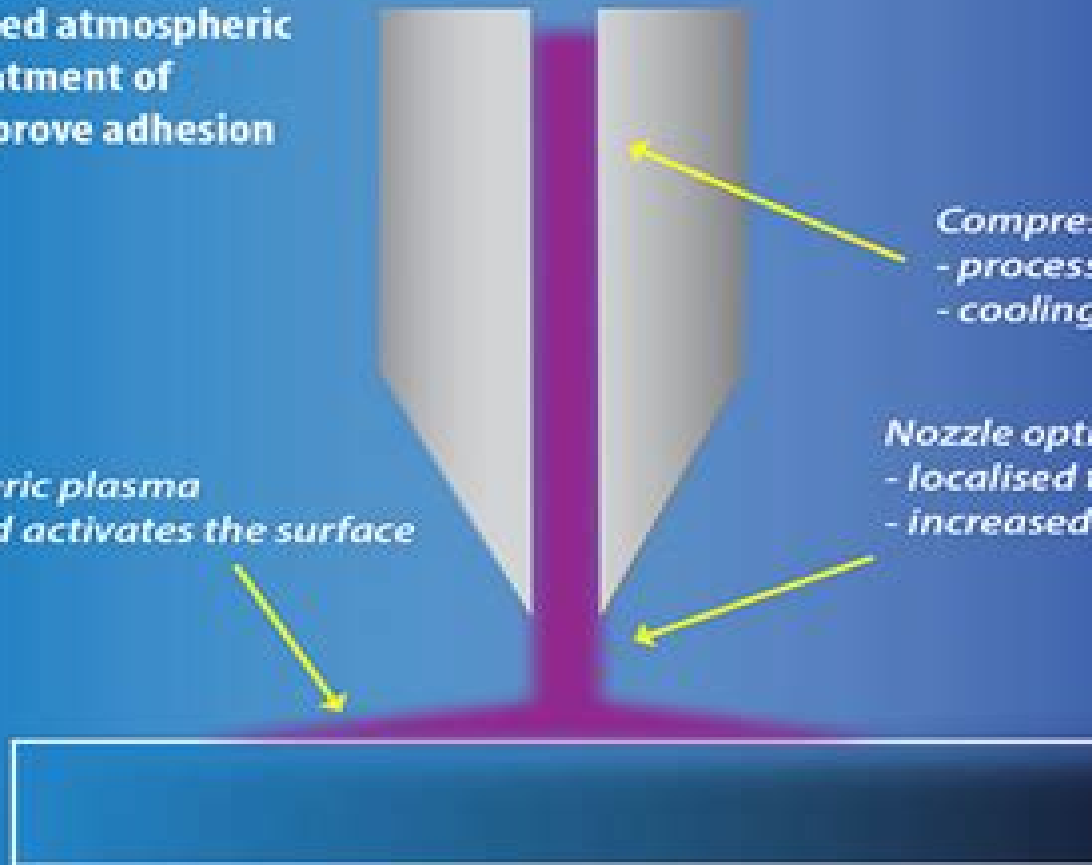


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# Atmospheric Pressure Plasma Treatment Of Polymers Relevance To Adhesion

**Michael Thomas, K. L. Mittal**



## **Atmospheric Pressure Plasma Treatment Of Polymers Relevance To Adhesion:**

**Atmospheric Pressure Plasma Treatment of Polymers** Michael Thomas, K. L. Mittal, 2013-06-19 An indispensable volume detailing the current and potential applications of atmospheric pressure plasma treatment by experts practicing in fields around the world Polymers are used in a wide variety of industries to fabricate legions of products because of their many desirable traits However polymers in general and polyolefins in particular are innately not very adhesionable because of the absence of polar or reactive groups on their surfaces and concomitant low surface energy Surface treatment of polymers however is essential to impart reactive chemical groups on their surfaces to enhance their adhesion characteristic Proper surface treatment can endow polymers with improved adhesion without affecting the bulk properties A plethora of techniques ranging from wet to dry simple to sophisticated vacuum to non vacuum for polymer surface modification have been documented in the literature but the Atmospheric Pressure Plasma APP treatment has attracted much attention because it offers many advantages vis a vis other techniques namely uniform treatment continuous operation no need for vacuum simplicity low cost no environmental or disposal concern and applicability to large area samples Although the emphasis in this book is on the utility of APP treatment for enhancement of polymer adhesion APP is also applicable and effective to modulate many other surface properties of polymers superhydrophilicity superhydrophobicity anti fouling anti fogging anti icing cell adhesion biocompatibility tribological behavior etc The key features of Atmospheric Pressure Plasma Treatment of Polymers Address design and functions of various types of reactors Bring out current and potential applications of APP treatment Represent the cumulative wisdom of many key academic and industry researchers actively engaged in this key and enabling technology

**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

**Adhesion in Microelectronics** K. L. Mittal, Tanweer Ahsan, 2014-08-25 This comprehensive book will provide both fundamental and applied aspects of adhesion pertaining to microelectronics in a single and easily accessible source Among the topics to be covered include Various theories or mechanisms of adhesion Surface physical or chemical characterization of materials as it pertains to adhesion Surface cleaning as it pertains to adhesion Ways to improve adhesion Unraveling of interfacial interactions using an array of pertinent techniques Characterization of interfaces interphases Polymer polymer adhesion Metal polymer adhesion metallized polymers Polymer adhesion to various substrates Adhesion of thin films Adhesion of underfills Adhesion of molding compounds Adhesion of different dielectric materials Delamination and reliability issues in packaged devices Interface mechanics and crack propagation Adhesion measurement of thin films and coatings

*Nonthermal Plasmas for Materials Processing* Jörg Florian Friedrich, Jürgen Meichsner, 2022-07-15 NONTHERMAL PLASMAS FOR MATERIALS PROCESSING This unique book covers the physical and chemical aspects of plasma chemistry with polymers and gives new insights into the interaction of physics and chemistry of nonthermal plasmas and their applications in materials science for physicists and chemists The properties and characteristics of plasmas elementary collision processes in the gas phase plasma surface interactions gas discharge plasmas and technical plasma sources atmospheric plasmas plasma diagnostics polymers and plasmas plasma polymerization post plasma processes plasma and wet chemical processing plasma induced generation of functional groups and the chemical reactions on these groups along with a few exemplary applications are discussed in this comprehensive but condensed state of the art book on plasma chemistry and its dependence on plasma physics While plasma physics plasma chemistry and polymer science are often handled separately the aim of the authors is to harmoniously join the physics and chemistry of low pressure and atmospheric pressure plasmas with polymer surface chemistry and polymerization and to compare such chemistry with classic chemistry Readers will find in these chapters Interaction of plasma physics and chemistry in plasmas and at the surface of polymers Explanation and interpretation of physical and chemical mechanisms on plasma polymerization and polymer surface modification Introduction of modern techniques in plasma diagnostics surface analysis of solids and special behavior of polymers on exposure to plasmas Discussion of the conflict of energy rich plasma species with permanent energy supply and the much lower binding energies in polymers and alternatives to avoid random polymer decomposition Technical applications such as adhesion cleaning wettability textile modification coatings films etc New perspectives are explained about how to use

selective and mild processes to allow post plasma chemistry on non degraded polymer surfaces Audience Physicists polymer chemists materials scientists industrial engineers in biomedicine coatings printing etc

**Progress in Adhesion and Adhesives, Volume 9** K. L. Mittal, 2025-04-29 The present book constitutes Volume 9 in the book series Progress in Adhesion and Adhesives which was conceived as an annual publication and the premier volume made its debut in 2015 These volumes provide state of the knowledge and curated reviews on many and varied topics about adhesion and adhesives The current book contains 14 chapters that include the use of hydrophobic and icephobic coatings for aircraft icing mitigations fundamental concepts and the application of hydrophobic coatings plasma treatment of polymers to enhance their adhesion atmospheric pressure plasma treatment of artificial leather sustainable plasma technology as a surface treatment in footwear materials failure cases in adhesive joints and coatings initiating systems for curing anaerobic adhesives use of fungal mycelia as an adhesive in composites mechanically responsive hydrogels as adhesives for clinical applications and adhesion of electrode coatings in lithium ion batteries and supercapacitors

**Polymer Surface Modification to Enhance Adhesion** K. L. Mittal, Anil N. Netravali, 2024-04-02 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

**Plasma Applications In Gases, Liquids And Solids: Technology And Methods** Claudia Riccardi, H Eduardo Roman, 2023-09-21 This book explores the exciting and evolving world of plasma physics in materials manufacturing and processing From ionized discharges to non thermal equilibrium plasmas new phenomena in physics are constantly emerging Written organized and edited by internationally recognized experts the various chapters delve into diverse issues in plasma science including new applications at the nanoscale to the development of diagnostic tools and simulations The interactions between the plasma state and matter both surface and bulk as well as gases and liquids are explored As electric discharges in plasmas continue to expand towards new horizons anyone interested

in this fascinating field would benefit from this book as an up to date and essential resource **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 **Textile Finishing** K. L. Mittal, Thomas Bahners, 2017-08-24 The book details the recent and exciting developments on various fronts in the textile field with regard to novel and innovative functionalities as well as their applications in various industries Technical textiles are used in various industries for a host of purposes and applications Recent developments in novel and innovative functionalities to textiles include easy to clean or dirt repellent flame retardancy anti bacterial and fog harvesting properties Textiles for electronics based on graphene CNTs and other nanomaterials conductive textiles textiles for sensor function textile fixed catalysts textiles for batteries and energy storage textiles as substrates for tissue engineering and textiles for O W separation are prevalent as well All this development has been made possible through adopting novel ways for finishing textiles e g by appropriate surface modification techniques and utilizing biomimetic concepts borrowed from nature This unique book is divided into four parts Part 1 Recent Developments Current Challenges in Textile Finishing Part 2 Surface Modification Techniques for Textiles Part 3 Innovative Functionalities of Textiles Part 4 Fiber Reinforced Composites The topics covered include Antimicrobial textile finishes flame retardant textile finishing self cleaning or easy to clean textiles metallization of textiles atmospheric pressure plasma and UV based photochemical surface modification of textiles tunable wettability of textiles 3D textile structures for fog harvesting textile fixed catalysts medical textiles as substrates for tissue engineering and fiber reinforced green or greener biocomposites and the relevance of fiber matrix adhesion **Encyclopedia of Plasma Technology - Two Volume Set** J. Leon Shohet, 2016-12-12 Technical plasmas have a wide range of industrial applications The Encyclopedia of Plasma Technology covers all aspects of plasma technology from the fundamentals to a range of applications across a large number of industries and disciplines Topics covered include nanotechnology solar cell technology biomedical and clinical applications electronic materials sustainability and clean technologies The book bridges materials

science industrial chemistry physics and engineering making it a must have for researchers in industry and academia as well as those working on application oriented plasma technologies Also Available Online This Taylor E mail e reference  
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