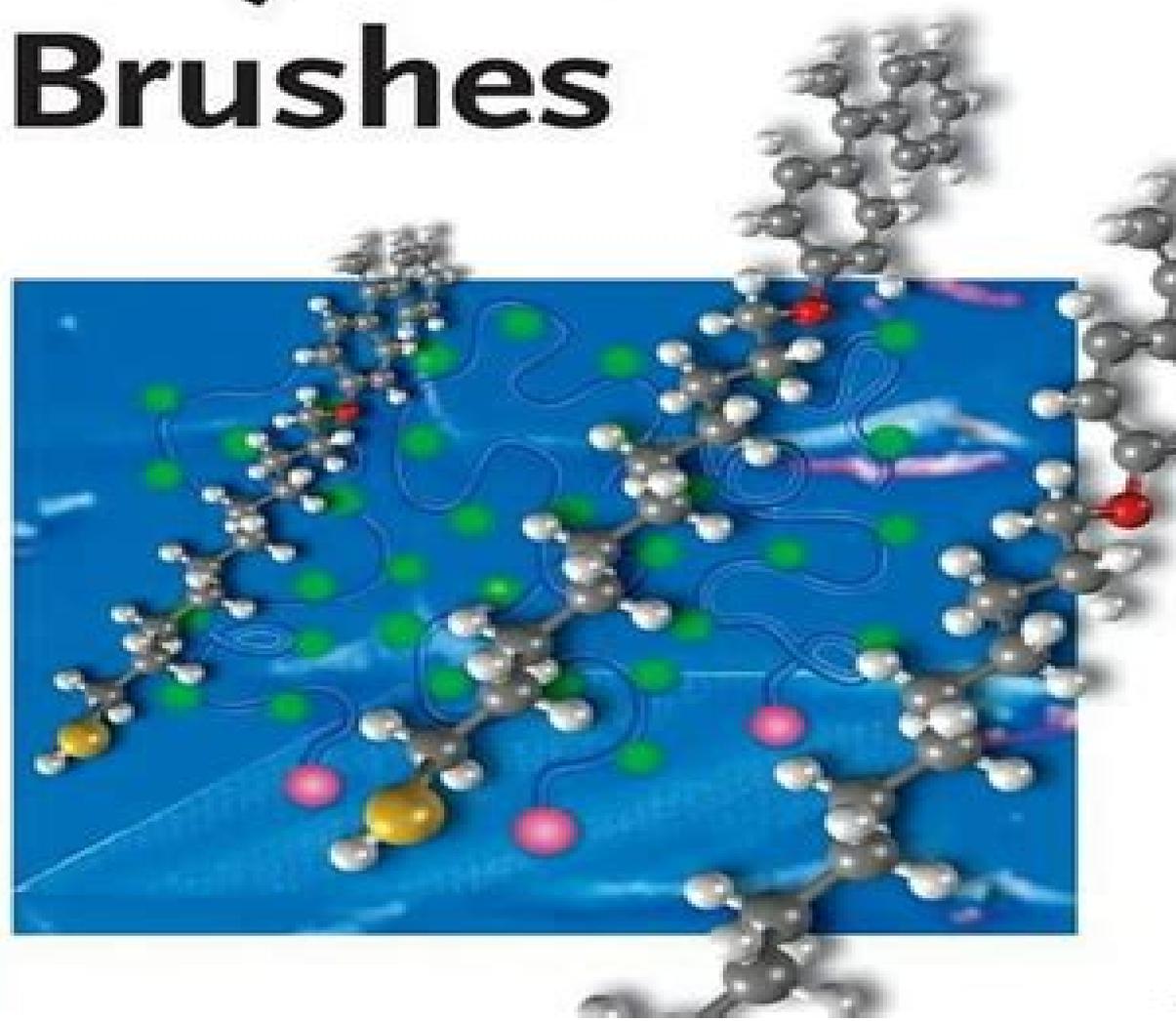


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Kenneth C. Caster, Jürgen Rùhe (Eds.)

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Polymer Brushes



Polymer Brushes Synthesis Characterization Applications

Robert R. Redfield



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Polymer Brushes Rigoberto C. Advincula, William J. Brittain, Kenneth C. Caster, Jürgen Rühle, 2006-03-06 Materials scientists polymer chemists surface physicists and materials engineers will find this book a complete and detailed treatise on the field of polymer brushes their synthesis characterization and manifold applications In a first section the various synthetic pathways and different surface materials are introduced and explained followed by a second section covering important aspects of characterization and analysis in both flat surfaces and particles These specific surface initiated polymerization SIP systems such as linear polymers homopolymers block copolymers and hyperbranched polymers are unique compared to previously reported systems by chemisorption or physisorption They have found their way in both large scale and miniature applications of polymer brushes which is covered in the last section Such hairy surfaces offer fascinating opportunities for addressing numerous problems of both academic and in particular industrial interest high quality functional or protective coatings composite materials surface engineered particles metal organic interfaces biological applications micro patterning colloids nanoparticles functional devices and many more It is the desire of the authors that this book will be of benefit to readers who want to brush up on polymers

Polymer Brushes Rigoberto C. Advincula, William J. Brittain, Kenneth C. Caster, Jürgen Rühle, 2004-09-03 Materials scientists polymer chemists surface physicists and materials engineers will find this book a complete and detailed treatise on the field of polymer brushes their synthesis characterization and manifold applications In a first section the various synthetic pathways and different surface materials are introduced and explained followed by a second section covering important aspects of characterization and analysis in both flat surfaces and particles These specific surface initiated polymerization SIP systems such as linear polymers homopolymers block copolymers and hyperbranched polymers are unique compared to previously reported systems by chemisorption or physisorption They have found their way in both large scale and miniature applications of polymer brushes which is covered in the last section Such hairy surfaces offer fascinating opportunities for addressing numerous problems of both academic and in particular industrial interest high quality functional or protective coatings composite materials surface engineered particles metal organic interfaces biological applications micro patterning colloids nanoparticles functional devices and many more It is the desire of the authors that this book will be of benefit to readers who want to brush up on polymers

[Polymer Brushes Derived from Polymer Single Crystals](#) Shan Mei, 2019 Polymer brushes are polymer chains densely tethered to substrates or interfaces Different from free polymer chains these tethered brushes exhibit unique chain conformations and behaviors and can be widely used for different applications due to their special properties Traditional methods for polymer brush synthesis include grafting to and grafting from both with intrinsic limitations In this dissertation polymer single crystals PSCs were used as templates to synthesize polymer brushes Polymer brushes can be obtained on single crystal surface by crystallization of block copolymers or by coupling PSCs with functional chain ends onto a substrate Due to the regular chain packing in PSCs and

the programmable crystal growth polymer brushes derived from PSCs can possess controllable grafting density tethering points and brush architectures In this dissertation a series of polymer brushes with various chain compositions architectures were synthesized via the PSC templating method The first example is the synthesis of patterned poly ethylene oxide PEO gradient brushes The grafting density of PEO brushes was precisely tuned by co crystallization of end dissimilar PEO polymers and various gradient patterns were obtained by programming the PEO crystal growth Block copolymer brushes using poly L lactic acid b poly ethylene oxide PLLA b PEO were synthesized by using PSCs of a triblock copolymer with a long tethering segment to obtain a high grafting efficiency Binary poly ethylene oxide PEO polystyrene PS mixed brushes were synthesized using poly lactic acid PLA stereocomplex single crystals as the templates Stereocomplex structure prevented the formation of macrophase separation of the two immiscible polymers and resulted in a homogeneous mixing of two polymer brushes The resulting mixed PEO PS brushes exhibited the characteristic ripple and dimple phase structures in response to different solvents Lastly patterned poly 4 vinylpyridine P4VP brushes on PEO single crystals were used to assemble gold nano particles AuNPs into free standing frame structure with precisely tunable sizes The synthesized AuNP frames exhibited special optical property which was observed only in gold nano rods but not AuNPs indicating the importance of a controlled assembly structure in discovering new properties of NPs Keywords polymer polymer brush polymer crystallization polymer single crystal

Polymer Brushes Rigoberto C. Advincula, William J. Brittain, Kenneth C. Caster, Jürgen R. He, 2006 Materials scientists polymer chemists surface physicists and materials engineers will find this book a complete and detailed treatise on the field of polymer brushes their synthesis characterization and manifold applications In a first section the v

Synthesis, Characterization, and Applications of Responsive Polymer Brush-grafted Particles, 2008 In this dissertation I present the synthesis characterization and applications of responsive polymer brush grafted silica crosslinked polymeric particles The polymer brush grafted particles were synthesized by surface initiated living controlled radical polymerizations from initiator functionalized particles in the presence of free initiators Two types of core particles were used in my research One was silica particles which were synthesized by St ber method The other one was crosslinked PtBA particles which were prepared by seeded emulsion polymerization The responsive properties of the grafted polymer brushes were characterized with ¹H NMR and Dynamic Light Scattering

Polymer Adhesion, Friction, and Lubrication Hongbo Zeng, 2013-04-01 Specifically dedicated to polymer and biopolymer systems Polymer Adhesion Friction and Lubrication guides readers to the scratch wear and lubrication properties of polymers and the engineering applications from biomedical research to automotive engineering Author Hongbo Zeng details different experimental and theoretical methods used to probe static and dynamic properties of polymer materials and biomacromolecular systems Topics include the use of atomic force microscopy AFM to analyze nanotribology polymer thin films and brushes nanoparticles rubber and tire technology synovial joint lubrication adhesion in paper products bioMEMS and electrorheological fluids Surfactants in

Tribology, Volume 3 Girma Biresaw, Kash Mittal, 2013-03-20 The manufacture and use of almost every consumer and industrial product rely on application of advanced knowledge in surface science and tribology These two disciplines are of critical importance in major economic sectors such as mining agriculture manufacturing including metals plastics wood computers MEMS NEMS appliances construction

Dissipative Particle Dynamics Alexander V. Neimark, Kolattukudy P. Santo, 2025-11-18 Dissipative Particle Dynamics Fundamentals and Applications in Soft Matter Science and Engineering comprehensively presents the fundamentals of dissipative particle dynamics DPD theoretical formulations and computational strategies providing practical guidance on the application of DPD models to various colloidal and interfacial phenomena involving phase separations self assembly and transport in complex fluids polymeric surfactant nanoparticle and biological systems In addition the book contains instructive advice on efficient implementation of the DPD models in open source computational packages Since the introduction of the principles of DPD methodology multiple efforts have been made to improve the computational basis of DPD and to devise advanced versions and modifications There are numerous research papers on this topic but no books until now Readers will find this to be a comprehensive reference source of multifaceted interdisciplinary applications that provides practical guidance for efficient computational implementation Provides a comprehensive discussion on the foundations and latest advances in the dissipative particle dynamics methodology Presents multiple interdisciplinary applications with appropriate examples Provides a balanced synergistic accounting of the theoretical foundations modern computational methodologies and practical applications of dissipative particle dynamics

Biomaterials Surface Science Andreas Taubert, Joao F. Mano, Jos  Carlos Rodr guez-Cabello, 2013-07-23 At the interface of biology chemistry and materials science this book provides an overview of this vibrant research field treating the seemingly distinct disciplines in a unified way by adopting the common viewpoint of surface science The editors themselves prolific researchers have assembled here a team of top notch international scientists who read like a who's who of biomaterials science and engineering They cover topics ranging from micro and nanostructuring for imparting functionality in a top down manner to the bottom up fabrication of gradient surfaces by self assembly from interfaces between biomaterials and living matter to smart stimuli responsive surfaces and from cell and surface mechanics to the elucidation of cell chip interactions in biomedical devices As a result the book explains the complex interplay of cell behavior and the physics and materials science of artificial devices Of equal interest to young ambitious scientists as well as to experienced researchers

Molecular Soft-Interface Science Mizuo Maeda, Atsushi Takahara, Hiromi Kitano, Tetsuji Yamaoka, Yoshiko Miura, 2019-05-09 This book offers a comprehensive treatment of the molecular design characterization and physical chemistry of soft interfaces At the same time the book aims to encourage the fabrication of functional materials including biomaterials During the past few decades there has been steady growth in soft interface science and that growth has been especially rapid in the twenty first century The field is interdisciplinary because it involves chemistry polymer science

materials science physical chemistry and biology Based on the increasing interdisciplinary nature of undergraduate and graduate programs the primary goal of this present work is to serve as a comprehensive resource for senior level undergraduates and for graduate students particularly in polymer chemistry materials science bioconjugate chemistry bioengineering and biomaterials Additionally with the growing interest in the fabrication of functional soft materials this book provides essential fundamental information for researchers not only in academia but also in industry

Creation of Affinity Membranes Containing Functionalized Polymer Brushes for High-capacity Purification of Histidine-tagged Proteins Parul Jain,2009 *Synthesis, Characterization, and Application of Novel Microporous Mixed Metal Oxides, and Nanostructured Layered Material-polymer Films* Hae-Kwon Jeong,2004 **Macromolecular Chemistry and Physics** ,2006 Macromolecular Engineering, Volume 1 Krzysztof Matyjaszewski,Yves Gnanou,Ludwik Leibler,2007-04-09 The book provides a state of the art description of the synthetic tools to precisely control various aspects of macromolecular structure including chain composition microstructure functionality and topology as well as modern characterization techniques at molecular and macroscopic level for various properties of well defined co polymers in solution bulk and at surfaces The book addresses also the correlation of molecular structure with macroscopic properties additionally affected by processing Finally some emerging applications for the co polymers are highlighted Synthesis and Evaluation of Polymer Brushes and Crosslinked Thin Films as Scaffolds for Biomolecule Immobilization Sean P. Cullen,2008 **Polymer Journal** ,2008 **A Fundamental Study of the Modification of Elastomeric Poly(dimethylsiloxane) and Silicon Surfaces Using Polymers and Their Applications in Patterning** John Randall Ell,2008 Dissertation Abstracts International ,2008 Poly(ethylene Oxide) Based Polymer Brushes Ying Zheng,2006 *Book Review Index Cumulation* Dana Ferguson,2005-09 Book Review Index provides quick access to reviews of books periodicals books on tape and electronic media representing a wide range of popular academic and professional interests The up to date coverage wide scope and inclusion of citations for both newly published and older materials make Book Review Index an exceptionally useful reference tool More than 600 publications are indexed including journals and national general interest publications and newspapers Book Review Index is available in a three issue subscription covering the current year or as an annual cumulation covering the past year

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