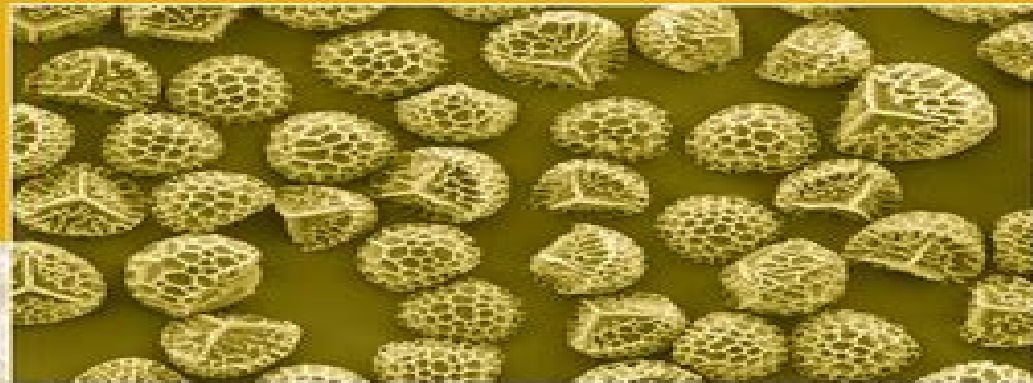




Colloidal Particles at Liquid Interfaces

Edited by Bernard P. Binks
and Tommy S. Horozov

Colloidal Particles At Liquid Interfaces

**Dotchi Exerowa, Georgi Gochev, Dimo
Platikanov, Libero Liggieri, Reinhard
Miller**



Colloidal Particles At Liquid Interfaces:

Colloidal Particles at Liquid Interfaces Bernard P. Binks, Tommy S. Horozov, 2006-08-17 Small solid particles adsorbed at liquid interfaces arise in many industrial products and process such as anti foam formulations crude oil emulsions and flotation They act in many ways like traditional surfactant molecules but offer distinct advantages However the understanding of how these particles operate in such systems is minimal This book brings together the diverse topics actively being investigated with contributions from leading experts in the field After an introduction to the basic concepts and principles the book divides into two sections The first deals with particles at planar liquid interfaces with chapters of an experimental and theoretical nature The second concentrates on the behaviour of particles at curved liquid interfaces including particle stabilized foams and emulsions and new materials derived from such systems This collection will be of interest to academic researchers and graduate students in chemistry physics chemical engineering pharmacy food science and materials science *Colloidal Particles and Liquid Interfaces* David Martin Kaz, 2011 **Particle-Stabilized**

Emulsions and Colloids To Ngai, Stefan A F Bon, 2014-11-13 There has been much scientific interest in the behaviour of colloidal particles at liquid interfaces From a research aspect they provide model systems for fundamental studies of condensed matter physics From a commercial aspect they provide applications for making new materials in the cosmetics food and paint industries In many cases of colloidal particles at interfaces the mechanism of particle interactions is still unknown Particle Stabilized Emulsions and Colloids looks at recent studies on the behaviour of particles at liquid interfaces The book first introduces the basic concepts and principles of colloidal particles at liquid liquid interfaces including the interactions and conformations The book then discusses the latest advances in emulsions and bicontinuous emulsions stabilized by both solid and soft particles and finally the book covers applications in food science and oil extraction With contributions from leading experts in these fields this book will provide a background to academic researchers engineers and graduate students in chemistry physics and materials science The commercial aspects will also be of interest to those working in the cosmetics food and oil industry **Particles at Fluid Interfaces and Membranes** P. Kralchevsky, K. Nagayama, 2001-01-22 In the small world of micrometer to nanometer scale many natural and industrial processes include attachment of colloid particles solid spheres liquid droplets gas bubbles or protein macromolecules to fluid interfaces and their confinement in liquid films This may lead to the appearance of lateral interactions between particles at interfaces or between inclusions in phospholipid membranes followed eventually by the formation of two dimensional ordered arrays The book is devoted to the description of such processes their consecutive stages and to the investigation of the underlying physico chemical mechanisms The first six chapters give a concise but informative introduction to the basic knowledge in surface and colloid science which includes both traditional concepts and some recent results Chapters 1 and 2 are devoted to the basic theory of capillarity kinetics of surfactant adsorption shapes of axisymmetric fluid interfaces contact angles and line

tension Chapters 3 and 4 present a generalization of the theory of capillarity to the case in which the variation of the interfacial membrane curvature contributes to the total energy of the system The generalized Laplace equation is applied to determine the configurations of free and adherent biological cells Chapters 5 and 6 are focused on the role of thin liquid films and hydrodynamic factors in the attachment of solid and fluid particles to an interface Surface forces of various physical nature are presented and their relative importance is discussed Hydrodynamic interactions of a colloidal particle with an interface or another particle are also considered Chapters 7 to 10 are devoted to the theoretical foundation of various kinds of capillary forces When two particles are attached to the same interface membrane capillary interactions mediated by the interface or membrane appear between them Two major kinds of capillary interactions are described i capillary immersion force related to the surface wettability Chapter 7 ii capillary flotation force originating from interfacial deformations due to particle weight Chapter 8 Special attention is paid to the theory of capillary immersion forces between particles entrapped in spherical liquid films Chapter 9 A generalization of the theory of immersion forces allows one to describe membrane mediated interactions between protein inclusions into a lipid bilayer Chapter 10 Chapter 11 is devoted to the theory of the capillary bridges and the capillary bridge forces whose importance has been recognized in phenomena like consolidation of granules and soils wetting of powders capillary condensation long range hydrophobic attraction etc The nucleation of capillary bridges is also examined Chapter 12 considers solid particles which have an irregular wetting perimeter upon attachment to a fluid interface The undulated contact line induces interfacial deformations which engender a special lateral capillary force between the particles The latter contributes to the dilatational and shear elastic moduli of particulate adsorption monolayers Chapter 13 describes how lateral capillary forces facilitated by convective flows and some specific and non specific interactions can lead to the aggregation and ordering of various particles at fluid interfaces or in thin liquid films Recent results on fabricating two dimensional 2D arrays from micrometer and sub micrometer latex particles as well as 2D crystals from proteins and protein complexes are reviewed Chapter 14 presents applied aspects of the particle surface interaction in antifoaming and defoaming The mechanisms of antifoaming action involve as a necessary step the entering of an antifoam particle at the air water interface The considered mechanisms indicate the factors for control of foaminess

Particles at Fluid Interfaces Erica Wanless, Grant Webber, Syuji Fujii, 2019-05-09 Particles at Fluid Interfaces encompasses the processes and formulations that involve the stabilisation of fluid interfaces by adsorbed particles The prevalence of these multiphase materials underpins their use in a broad range of industries from personal care and food technology to oil and mineral processing The stabilisation conferred by the adsorbed particles can be transient as found in froth flotation or long lived as occurs within Pickering Emulsions The particles can range in size from nanoparticles to millimetre sized particles and cover a spectrum from collapsed proteins polymeric colloids of controlled size and shape to high dispersity mineral particles *Self-diffusion of Colloidal Particles at Soft (liquid/liquid) Interfaces* Yuan Peng, 2007

Colloidal Particles at Fluid Interfaces and the Interface of Colloidal Fluids Ryan McGorty, 2011 **Colloid and Interface Chemistry for Nanotechnology** Peter Kralchevsky, Reinhard Miller, Francesca Ravera, 2016-04-19 Colloid and interface science dealt with nanoscale objects for nearly a century before the term nanotechnology was coined An interdisciplinary field it bridges the macroscopic world and the small world of atoms and molecules Colloid and Interface Chemistry for Nanotechnology is a collection of manuscripts reflecting the activities of research te *Colloidal Suspension Rheology* Jan Mewis, Norman J. Wagner, 2012 Presented in an accessible and introductory manner this is the first book devoted to the comprehensive study of colloidal suspensions **Physics of Wetting** Edward Yu. Bormashenko, 2017-09-11 Motivated by a plethora of phenomena from nature this textbook introduces into the physics of wetting of surfaces After a brief discussion of the foundations of surface tension its implementation for floating objects capillary waves bouncing droplets walking of water striders etc is discussed Furthermore Marangoni flows surface tension inspired instabilities condensation and evaporation of droplets liquid marbles superhydrophobicity and superoleophobicity lotus effect are introduced All relevant concepts are illustrated by the numerous qualitative and quantitative exercises Contents What is surface tension Wetting of surfaces the contact angle Surface tension assisted floating of heavy and light objects and walking of water striders Capillary interactions between particles Particles placed on liquid surfaces Elasticity of liquid surfaces covered by colloidal particles Capillary waves Oscillation of droplets Marangoni flow and surface instabilities Evaporation of droplets The Kelvin and the coffee stain effects Condensation growth and coalescence of droplets and the breath figure self assembly Dynamics of wetting bouncing spreading and rolling of droplets water hammer effect water entry and drag out problems Superhydrophobicity and superoleophobicity the Wenzel and Cassie wetting regimes The Leidenfrost effect Liquid marbles self propulsion Physics geometry life and death of soap films and bubbles **Foam Films and Foams** Dotchi Exerowa, Georgi Gochev, Dimo Platikanov, Libero Liggieri, Reinhard Miller, 2018-07-27 This book describes in detail the scientific philosophy of the formation and stabilization destabilization of foams It presents all hierarchical steps of a foam starting from the properties of adsorption layers formed by foaming agents discussing the properties of foam films as the building blocks of a foam and then describing details of real foams including many fields of application The information presented in the book is useful to people working on the formulation of foams or attempting to avoid or destruct foams in unwanted situations **Bijels** Paul S Clegg, 2020-03-18 Bicontinuous interfacially jammed emulsion gels now commonly termed bijels are a class of soft materials in which interpenetrating continuous domains of two immiscible fluids are maintained in a rigid arrangement by a jammed layer of colloidal particles at their interface Such gels have unusual material properties that promise exciting applications across diverse fields from energy materials and catalysis to food science This is the first book on the subject and provides the reader with a fundamental introduction to the field Edited by Paul Clegg a recognised authority on bijels the reader will learn about the bijel and its formation Starting with three component systems

the reader will be introduced to systems using only two liquids and colloidal particles before moving onto more complex systems with additional components These systems are looked at via both experimental and simulation studies explaining phase separation kinetics structure formation properties and functionalisation A closing section on bijel production using flow explores thin film and bulk structure formation relevant to larger scale materials design Bringing together current understanding this book aims to bring the potential application of bijels to diverse materials challenges closer to fruition This is a must have resource for anyone working in soft matter and applied fields Foreword by Michael E Cates Lucasian

Professor of Mathematics at the University of Cambridge *Evaporative Self-assembly of Ordered Complex Structures*
Zhiquan Lin, 2012 The use of spontaneous self assembly as a lithographic tool and as an external field free means to construct well ordered and intriguing patterns has received much attention This book offers a spectrum of experimental and theoretical advances in evaporative self assembly techniques **Theory of Electrophoresis and Diffusiophoresis of Highly**

Charged Colloidal Particles Eric Lee, 2018-11-30 Theory of Electrophoresis and Diffusiophoresis of Highly Charged Colloidal Particles discusses the electrophoretic and diffusiophoretic motions of various colloidal entities such as rigid particles liquid droplets gas bubbles and porous particles focusing on the motion deterring double layer polarization effect pertinent to highly charged particles with the lowly charged ones serving as the limiting cases Boundary effects such as those from a cylindrical pore a solid plane or an air water interface are analyzed as well for the electrophoretic motion of the various particles considered Dynamic electrophoresis is also explored and treated The contents are suitable for researchers graduate students or senior college students with some basic background of colloid science and transport phenomena As there is no closed form analytical formula in general for the situation of highly charged particles the results are presented with extensive figures and plots as well as tables under various electrokinetic situations of interest to facilitate the possible use of interested readers Provides a reliable quantitative prediction of highly charged particles motion with easy to apply charts and in depth understanding of the underlying mechanisms Offers an extensive treatment of direct quantitative predication for non rigid systems such as porous particles liquid drops and gels which is especially valuable in proteins and DNA research Discusses highly charged systems with a nearby boundary of practical interests such as a pore a solid plane or an air water interface which is of vital interest in fields such as microfluidic operations and biomedical engineering Affords special attention to the polarization effect Clay Minerals and Synthetic Analogous as Emulsifiers of Pickering Emulsions

Fernando Wypych, Rilton Alves de Freitas, 2022-08-13 Clay Minerals and Synthetic Analogous as Emulsifiers of Pickering Emulsions begins with basic concepts of Pickering emulsions describes the thermodynamic kinetic and gravitational stability the methods of preparation and the most common characterization techniques Next the book presents detailed structure properties and physical chemical modifications of natural and synthetic layered minerals to optimize its properties Figures and schemes are prepared for experts in the area as well as the undergraduate and graduate students from many different

research areas where clay minerals synthetic layered materials and Pickering emulsion have potential applications Clay Minerals and Synthetic Analogues as Emulsifiers of Pickering Emulsions fills a gap in the literature stimulates the aggregation of value of clay minerals and shows the readers the methods of preparation characterization and applications of Pickering emulsions stabilized with layered materials giving special attention to clay minerals Fills a gap in the literature with multidisciplinary coverage of Pickering Emulsions Presents methods of preparation characterization and applications of Pickering emulsions for clay minerals Includes contributions from top experts in the relevant fields **Drops and Bubbles**

in Contact with Solid Surfaces Michele Ferrari,Libero Liggieri,Reinhard Miller,2016-04-19 The third volume in a series dedicated to colloids and interfaces Drops and Bubbles in Contact with Solid Surfaces presents an up to date overview of the fundamentals and applications of drops and bubbles and their interaction with solid surfaces The chapters cover the theoretical and experimental aspects of wetting and wettability liquid solid Generation of Polymers and Nanomaterials at

Liquid-Liquid Interfaces Panagiotis Dallas,2020-07-28 Generation of Polymers and Nanomaterials at Liquid Liquid Interfaces Application to Crystalline Light Emitting and Energy Materials Second Edition is an innovative guide to the synthesis and processing of materials through liquid liquid interfaces This second edition has been revised and expanded with a new chapter on light emitting materials and increased emphasis towards applications The book aims to highlight the versatility of the interface between two liquids providing a unique environment for synthesizing materials with highly tuned desirable properties In this revised and expanded second edition the advanced applications of the synthesized materials and the two phase systems are highlighted with real potential within flexible electronics energy storage enhanced oil recovery and sensors This is supported by detailed coverage of interfacial processes and the fundamental physical chemistry behind them The first two chapters provide an overview of interfaces in natural and biological systems and outline the fundamental properties of the interface Chapters 3 and 4 are devoted to the synthesis and self organization of nanoparticles and polymers through interfacial systems The synthesis of conductive fluorescent and conventional polymers and their properties are extensively covered Chapters 5 and 6 focus on novel applications This book is of interest to researchers scientists and advanced students in polymer synthesis polymer chemistry polymer science nanomaterials and nanotechnology polymer composites materials science energy flexible electronics and chemical engineering In industry this supports scientists R D and other professionals working with polymeric materials for applications in energy electronics sensors and oil gas Provides new ideas for the design of fluorescent polymers conductive polymers nanoparticle arrays thin films and novel 2D materials Includes detailed coverage of synthesis and processing of polymers and nanomaterials at liquid liquid interfaces Explores state of the art applications across flexible electronics energy storage enhanced oil recovery and sensors **Encyclopedia**

of Interfacial Chemistry ,2018-03-29 Encyclopedia of Interfacial Chemistry Surface Science and Electrochemistry Seven Volume Set summarizes current fundamental knowledge of interfacial chemistry bringing readers the latest developments in

the field As the chemical and physical properties and processes at solid and liquid interfaces are the scientific basis of so many technologies which enhance our lives and create new opportunities its important to highlight how these technologies enable the design and optimization of functional materials for heterogeneous and electro catalysts in food production pollution control energy conversion and storage medical applications requiring biocompatibility drug delivery and more This book provides an interdisciplinary view that lies at the intersection of these fields Presents fundamental knowledge of interfacial chemistry surface science and electrochemistry and provides cutting edge research from academics and practitioners across various fields and global regions **Colloidal particles at fluid interfaces** Niveditha Samudrala,2017

Anisotropic Particle Assemblies Ning Wu, Daeyeon Lee, Alberto Striolo, 2018-07-12 *Anisotropic Particle Assemblies* Synthesis Assembly Modeling and Applications covers the synthesis assembly modeling and applications of various types of anisotropic particles Topics such as chemical synthesis and scalable fabrication of colloidal molecules molecular mimetic self assembly directed assembly under external fields theoretical and numerical multi scale modeling anisotropic materials with novel interfacial properties and the applications of these topics in renewable energy intelligent micro machines and biomedical fields are discussed in depth Contributors to this book are internationally known experts who have been actively studying each of these subfields for many years This book is an invaluable reference for researchers and chemical engineers who are working at the intersection of physics chemistry chemical engineering and materials science and engineering It educates students trains the next generation of researchers and stimulates continuous development in this rapidly emerging area for new materials and innovative technologies Provides comprehensive coverage on new developments in anisotropic particles Features chapters written by emerging and leading experts in each of the subfields Contains information that will appeal to a broad spectrum of professionals including but not limited to chemical engineers chemists physicists and materials scientists and engineers Serves as both a reference book for researchers and a textbook for graduate students

Colloidal Particles At Liquid Interfaces: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have charmed audiences this year. Colloidal Particles At Liquid Interfaces : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Colloidal Particles At Liquid Interfaces : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Colloidal Particles At Liquid Interfaces : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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