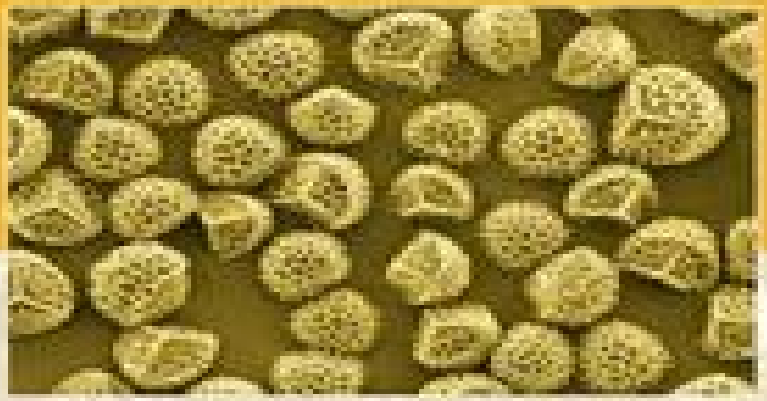

Colloidal Particles at Liquid Interfaces

Edited by Bernard P. Binks
and Tommy S. Horozov

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Colloidal Particles At Liquid Interfaces

Niveditha Samudrala

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 *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 **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

Colloidal Particles at Fluid Interfaces and the Interface of Colloidal Fluids Ryan McGorty,2011 Self-diffusion of Colloidal Particles at Soft (liquid/liquid) Interfaces Yuan Peng,2007 **Colloidal particles at fluid interfaces** Niveditha Samudrala,2017 **Structure and Interactions of Colloidal Particles at Fluid Interfaces** Adam Daniel Law,2011

Colloidal Particles at a Liquid-liquid Interface Iain Alexander Aylett Muntz,2021 **The Ordering Process of Two-dimensional Colloidal Particles at Liquid-vapor Interface** Hokwing Yau,1999 **Colloidal particles at fluid-fluid interfaces** David Eta Tambe,1994 *Interactions Between Colloidal Particles at Oil-water Interfaces* Bum Jun Park,2008 The behavior of colloidal particles at two dimensional interfaces is of considerable interests in terms of industrial

applications and model systems for research To systematically study colloidal particle behaviors at 2D interfaces we directly measure interaction forces between particle pairs dynamics of a confined particle in a fixed geometry and micromechanical properties of aggregates or percolated networks For doing this we use multiple time shared optical traps which enable us to measure forces in the piconewton range 0 1 100 pN First the trapping forces for a single ray at the interface were calculated while varying the particle position at the 2D interfaces The trapping force is described by the contributions of reflected and refracted rays with their corresponding powers which are determined by Fresnel reflection and transmission coefficients Based on the Ashkin s calculation in the 3D aqueous phase we found that the trapping and scattering forces are mainly determined by the first reflection of the incident ray and the next three refractions to the medium At 2D interfaces the trapping force is considered for two geometries a when the incident ray is incident on a particle in the aqueous phase b when a transmitted ray at the liquid interface enters into a particle in the oil phase In the first geometry the trapping forces do not change regardless of the refraction orders if the second refracted ray is to the oil phase The dimensionless factors Q g and Q s of the gradient force and the scattering force decrease compared to those in the 3D aqueous space and Q s decreases more than Q g This suggests that the presence of the interface provides good trapping conditions In the second geometry the magnitude of dimensionless factors is consistent with those calculated in the first geometry when the incident angle is in the range of 0 *Interaction, Micromechanics, and Applications of Colloidal Particles at Fluid Interfaces* Bum Jun Park,2010

Modelling Colloidal Particles Adsorbed at Fluid-fluid Interfaces Gary Bryan Davies,2015 *Colloid Symposium Monograph* Harry Nicholls Holmes,1925 *Surface Chemistry of Colloidal Nanocrystals* Ana Luísa Daniel-da-Silva,Tito Trindade,2021-02-08 The chemistry of nanomaterials has developed considerably in the past two decades and concepts that have emerged from these developments are now well established The surface modification of nanoparticles is a subject of intense research interest given its importance for many applications across a number of disciplines This comprehensive guide is the first to be devoted to the surface chemistry of inorganic nanocrystals Following an introduction to the physical chemistry of surfaces chapters cover topics such as the surface modification of nanoparticles water compatible polymer based and inorganic nanocomposites as well as relevant applications in catalysis biotechnology and nanomedicine Highlighting recent advances Surface Chemistry of Colloidal Nanocrystals provides an integrated approach to chemical aspects related to the surface of nanocrystals Written by prestigious scientists this will be a useful resource for students and researchers working in surface science nanoscience and materials science as well as those interested in the applications of the nanomaterials in areas such as health science biology and environmental engineering **The Canadian Journal of Chemical Engineering** ,2007-08 **Organic chemistry** Howard Davis Haskins,1917 Colloid Symposium Monograph Joseph Howard Mathews,Harry Nicholls Holmes,Harry Boyer Weiser,1925 *Modelling Colloidal Particles Adsorbed at Fluid-fluid Interfaces* G. B. Davies,2015

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