
***LIPID
AND
BIOPOLYMER
MONOLAYERS
AT
LIQUID
INTERFACES***

K. S. Birdi

Lipid And Biopolymer Monolayers At Liquid Interfaces

Lei Shi



Lipid And Biopolymer Monolayers At Liquid Interfaces:

Lipid and Biopolymer Monolayers at Liquid Interfaces K.S. Birdi, 2013-06-29 During the past few decades much research has been reported on the formation of insoluble monomolecular films of lipids and biopolymers synthetic polymers and proteins on the surface of water or at the oil water interface This interest arises from the fact that monomolecular film studies have been found to provide much useful information on a molecular scale information that is useful for understanding many industrial and biological phenomena in chemical agricultural pharmaceutical medical and food science applications For instance information obtained from lipid monolayer studies has been useful in determining the forces that are known to stabilize emulsions and biological cell membranes The current texts on surface chemistry generally devote a single chapter to the characteristics of spread monolayers of lipids and biopolymers on liquids and a researcher may have to review several hundred references to determine the procedures needed to investigate or analyze a particular phenomenon Furthermore there is an urgent need at this stage for a text that discusses the state of the art regarding the surface phenomena exhibited by lipids and biopolymers as they are relevant to a wide variety of surface and interfacial processes Self-Assembly

Monolayer Structures of Lipids and Macromolecules at Interfaces K.S. Birdi, 2007-05-08 Self assembly monolayer SAM structures of lipids and macromolecules have been found to play an important role in many industrial and biological phenomena This book describes two procedures namely the STM and AFM that are used to study SAMs at solid surfaces K S Birdi examines the SAMs at both liquid and solid surfaces by using the Langmuir monolayer method This book is intended for researchers academics and professionals *Liquid-Liquid Interfaces Theory and Methods* Alexander G. Volkov, David W.

Deamer, 2020-11-26 Update your knowledge of the chemical biological and physical properties of liquid liquid interfaces with *Liquid Liquid Interfaces Theory and Methods* This valuable reference presents a broadly based account of current research in liquid liquid interfaces and is ideal for researchers teachers and students Internationally recognized investigators of electrochemical biological and photochemical effects in interfacial phenomena share their own research results and extensively review the results of others working in their area Because of its unusually wide breadth this book has something for everyone interested in liquid liquid interfaces Topics include interfacial and phase transfer catalysis electrochemistry and colloidal chemistry ion and electron transport processes molecular dynamics electroanalysis liquid membranes emulsions pharmacology and artificial photosynthesis Enlightening discussions explore biotechnological applications such as drug delivery separation and purification of nuclear waste catalysis mineral extraction processes and the manufacturing of biosensors and ion selective electrodes *Liquid Liquid Interfaces Theory and Methods* is a well written informative one stop resource that will save you time and energy in your search for the latest information on liquid liquid interfaces **Trends in**

Colloid and Interface Science XV Petros G. Koutsoukos, 2003-07-01 The 14th Conference of the European Colloid and Interface Society ECIS 2000 was held in September 2000 in Patras GREECE Researchers from the academia and the

industrial sector met and presented research work divided in nine thematic sections molecular interactions in thin films polymer surfactant interactions structure and dynamics at interfaces biocolloids colloids in pharmaceutical and biological applications new trends in colloid and interface science techniques rheology self assembly of amphiphiles and measurements in concentrated suspensions Selected contributions from these thematic areas are presented in the present volume and show the up to date achievements of the Colloid and Interface Science

Scanning Probe Microscopes K. S. Birdi, 2003-02-26

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Surface and Colloid Chemistry K. S. Birdi, 2009-10-27 Surface and colloid chemistry principles impact many aspects of our daily lives ranging from the cleaners and cosmetics we use to combustion engines and cement Exploring the range of this field of study Surface and Colloid Chemistry provides a detailed analysis of its principles and applications and demonstrates how they relate to natural phenom

Surface Chemistry Essentials K. S. Birdi, 2013-11-26 Surface chemistry plays an important role in everyday life as the basis for many phenomena as well as technological applications Common examples

range from soap bubbles foam and raindrops to cosmetics paint adhesives and pharmaceuticals Additional areas that rely on surface chemistry include modern nanotechnology medical diagnostics and d Colloids and Interfaces in Life Sciences and Bionanotechnology Willem Norde, 2011-06-06 Colloidal systems occur everywhere in soils seawater foodstuff pharmaceuticals paints blood biological cells and microorganisms Colloids and Interfaces in Life Sciences and Bionanotechnology Second Edition gives a concise treatment of physicochemical principles determining interrelated colloidal and interfacial phenomena New in the

Molecular Interactions Aurelia Meghea, 2012-02-29 In a classical approach materials science is mainly dealing with interatomic interactions within molecules without paying much interest on weak intermolecular interactions However the variety of structures actually is the result of weak ordering because of noncovalent interactions Indeed for self assembly to be possible in soft materials it is evident that forces between molecules must be much weaker than covalent bonds between the atoms of a molecule The weak intermolecular interactions responsible for molecular ordering in soft materials include hydrogen bonds coordination bonds in ligands and complexes ionic and dipolar interactions van der Waals forces and hydrophobic interactions Recent evolutions in nanosciences and nanotechnologies provide strong arguments to support the opportunity and importance of the topics approached in this book the fundamental and applicative aspects related to molecular interactions being of large interest in both research and innovative environments We expect this book to have a strong impact at various education and research training levels for young and experienced researchers from both academia and industry

Molecular Electronics and Molecular Electronic Devices Kristof Sienicki, 1994-03-22 Molecular Electronics and Molecular Electronic Devices is a new book series that reflects the state of the art in the science and

technology of molecular electronic devices It provides a comprehensive review of current problems and the latest information regarding all aspects of molecular electronics and molecular electronic devices Experimental and theoretical aspects of molecular electronics and molecular electronic devices are reviewed by distinguished researchers working in chemistry physics computer science and various areas of biology Advances in Planar Lipid Bilayers and Liposomes A. Leitmannova Liu,2006-04-25 The lipid bilayer is central to life as all living organisms possess a lipid bilayer structure thereby underlying the lipid bilayer principle of biomembranes The lipid bilayer principle and its applications are the main theme of this new book series This new series on bilayer lipid membranes BLMs and liposomes include invited chapters on a broad range of topics from theoretical investigations specific studies experimental methods to practical applications Written for newcomers experienced scientists and those who are not familiar with these specific research areas the Series covers all aspects of lipid bilayer investigations both fundamental and applied Covers a broad range of topics ranging from theoretical research specific studies experimental methods to practical applications Authoritative timely reviews by experts in this field Indispensable source of information for new scientists **Mixed Surfactant Systems** Masahiko Abe,2004-12-22 Completely revised and expanded throughout Mixed Surfactant Systems Second Edition surveys the latest results newest experimental perspectives and theoretical investigations of properties behavior and techniques applicable to mixed surfactant systems This important book elucidates core theoretical notions while summarizing results of *Emulsions and Emulsion Stability* Johan Sjoblom,2005-11-21 Emulsions and Emulsion Stability Second Edition provides comprehensive coverage of both theoretical and practical aspects of emulsions The book presents fundamental concepts and processes in emulsified systems such as flocculation coalescence stability precipitation deposition and the evolution of droplet size distribution The bo Surface Active Monomers Mykola Borzenkov,Orest Hevus,2014-07-01 This brief includes information on the background of and development of synthesis of various types of surface active monomers The authors explain the importance of utilization of surface active monomers for creation of surface active polymers and the various biomedical applications of such compounds This brief introduces techniques for the synthesis of novel types of surface active monomers their colloidal and polymerizable properties and application for needs of medicine and biology *Chemists* Dean Miller,2014-01-01 In this book a breakdown of the life and work of some of history s pioneers in the study of chemistry are thoroughly explored This biographical view provides excellent sketches for trailblazers in the area of chemistry Articles are devoted to specific scientists covering their contributions to their field specifically addressing how their research discoveries and inventions impacted human understanding and experience Most importantly this book provides a chapter specifically devoted to the top scientific contributors of the 21st century bringing readers current with both timely events and successes that have moved human kind forward Interfacial Science: An Introduction Geoffrey Barnes,Ian Gentle,2011-02-10 Interfacial Science An Introduction is an accessible text introducing readers to the chemistry of interfaces a subject of

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Handbook of Surface and Colloid Chemistry K. S. Birdi, 2002-08-27 The science of surface and colloid chemistry has been expanding at a rapid pace resulting in new areas of development additional applications and more theoretical and experimental information on related systems Completely revised and expanded to reflect the very active worldwide research on this subject this is the definitive handbook for the Nanoscience Patrick Boisseau, Marcel Lahmani, 2009-10-14 Nanobiotechnology is a rapidly developing field of research with new applications constantly emerging This book presents the basics fundamental results and latest achievements of nanobiotechnological research It extends as far as promising applications of new nanomaterials and newly discovered nanoeffects Additionally it presents a large variety of nanobio analysis methods **Surface Chemistry and Geochemistry of Hydraulic Fracturing** K. S. Birdi, 2016-10-14 Unique in focus Surface Chemistry and Geochemistry of Hydraulic Fracturing examines the surface chemistry and phenomena in the hydrofracking process Under great scrutiny as of late the physico chemical properties of hydrofracking are fully detailed and explained Topics include the adsorption desorption of gas on the shale reservoir surface and relevant waste water treatment dependent on various surface chemistry principles The aim of this book is to help engineers and research scientists recognize the basic surface chemistry principles related to this subject Written by a long time expert in the field this book presents an unbiased account of the hard science and engineering involved in a resource that is gaining growing attention within the community

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