

Aqueous Biphasic Separations

Biomolecules to Metal Ions

Edited by Robin D. Rogers
and Mark A. Eiteman

Aqueous Biphasic Separations

**Kit Wayne Chew, Shir Reen Chia, Pau
Loke Show**



Aqueous Biphasic Separations:

Aqueous Biphasic Separations Robin D. Rogers, M.A. Eiteman, 2012-12-06 Proceedings of an American Chemical Society Symposium held in San Diego California March 13 14 1994 *Aqueous Biphasic Separations* Robin D Rogers, M. A. Eiteman, 1995-08-01 Separations of f Elements Gregory R. Choppin, K.L. Nash, 2013-06-29 The symposium which provided the incentive for this volume was conducted in San th Diego California as a part of the 207 National Meeting of the American Chemical Society March 13 17 1994 It was conceived partly to continue an informal decennial sequence of sym posia dedicated to the topic off element separations A lot has changed in the world of f ele ments over the last ten years precipitating a change in emphasis which should be evident to most practitioners in the field Production and reprocessing of nuclear fuels are no longer the principal drivers of f element separation technology Separations technology for environment restoration waste disposal and the preparation of high purity lanthanides are now the defming parameters in this important field These imperatives are reflected in the contributions to this volume The symposium itself must be considered a success as the attendance at all sessions was above expectations despite the fact that it was conducted on the last two days of a large five day meeting Our thanks to the speakers for their quality presentations and to the audience who persevered to the end of a long meeting and against the temptation of the excellent weather of San Diego in the springtime A complete list of symposium participants is given in Appendix 1 Preparation of this volume has been a relatively painless undertaking largely as a result of the high quality of the submitted papers Towards Greener Separations Meghna Dilip, 2008 *Principles of Multiple-Liquid Separation Systems* Kit Wayne Chew, Shir Reen Chia, Pau Loke Show, 2023-01-12 Principles of Multiple Liquid Separation Systems Interaction Application and Advancement describes the basic principles and advancements of multiple liquid separation systems in downstream processing Several important elements are included such as the fundamental process and mechanisms of the multiple liquid separation system key principles of the interaction between different solvents and phase components applications and green solvents for the separation system Furthermore the book gives insights in commercializing this separation technique to industrial scale and making the process environmentally and economically sustainable The book also presents constructive critics of this separation technique for both past and the latest findings Comprehensively reviews several advanced separation methods and their fundamentals in a single source Covers a deep understanding of the interaction between various liquid phase techniques and the latest cases of advanced techniques applied in bioprocesses Provides a critical and constructive judgement of costs and environmental sustainability of multiple liquid separation systems **Calixarenes for Separations** Gregg J. Lumetta, Robin D. Rogers, Aravamudan S. Gopalan, 2000 This book is a complete examination of the benefits and uses of calixarenes to provide frameworks for arranging binding functionalities in spatial arrangements that are ideal for binding specific substrates These selective bindings are used as the basis for chemical separations and calixarenes can be used for binding both cationic and anionic substrates making this book

a useful addition to any chemist's library *Frontiers on Separation Science and Technology* Sung Hyun Kim, Zhangfa Tong, 2004 This book presents the latest achievements of separation science and technology It highlights the application of separation with regard to problems of current interest such as the protection of the environment and the development of emerging technology including chemical engineering biotechnology renewable energy sources and recycling of materials

Highly Selective Separations in Biotechnology G. Street, 2012-12-06 Success in meeting the challenge to produce the commercial products anticipated by the exploitation of biological processes depends upon providing effective separation protocols Effectiveness can be measured in terms of selectivity purity resolution and validity success The major processing problems are associated with either the selective recovery of molecules which are present in low concentrations from complex mixtures or the selective removal of contaminants from the desired molecule Central to the evolution of processes satisfying this demand are the regulatory requirements being imposed by governments on the purity of a product especially in the health care market Synthetic organic chemists are increasingly finding it advantageous to conduct one or more steps using either enzymic biotransformations where molecules with a single and consistent stereochemistry or chirality are required The underlying principles behind the methods techniques and processes currently being used and developed commercially rely upon the biospecific nature and properties of the desired molecule When these factors are married to the more traditional techniques of precipitation chromatography liquid liquid extraction and membrane processes powerful tools emerge allowing highly selective separations to be designed The logical extension of these combinations is to apply genetic engineering techniques to influence the separations at a more fundamental and structural level by modifying the target protein at source during its synthesis to facilitate its separation in a given selective manner leading to the distinct possibility of producing designer separation programmes

Alternative (Potentially Green) Separations Media, 2007 Through the current DoE BES funding we have extended our fundamental understanding of the critical phase separation of aqueous polymer solutions at the molecular level and have developed a similar understanding of their application as novel solvent systems Our principal aims included mode of delivery of the aqueous biphasic system ABS solvent system and the application of this system to problems of reactive extraction In the former case we have developed novel solid phase analogues in the form of cross linked polyethylene glycol hydrogels and in the latter case we have examined the role that ABS might play in reaction engineering with a view to greener simpler and safer processes We have also developed a new salt salt ABS and have extended our understanding of this system as well The major outcomes are as follows 1 Through the use of variable temperature phase diagrams coupled with differential scanning calorimetry DSC measurements of the phases a better understanding of the thermodynamics of phase formation was obtained Evidence to the existence and role of an upper critical solution temperature UCST or lower critical solution temperature LCST or both in these systems was gained With variable temperature solute partitioning thermodynamic parameters were calculated and inter system comparisons were

made Through the use of Abraham's linear solvation energy regression LSER the solvent solute properties of liquid liquid ABS were examined We have shown that ABS are indeed very tunable and LSERs have been used as a tool to compare these systems to traditional organic water and other liquid liquid systems 2 We have successfully shown the development of novel reaction media for chemical synthesis and reaction Aqueous Biphasic Reactive Extraction ABRE As a proof of concept we have shown the synthesis of adipic acid from cyclohexene in an ABS which represents an important development in the exploitation of this technology Previous oxidations of this type have relied on the use of phase transfer catalysts which are expensive to produce and difficult to recover In this reaction the polyethylene glycol PEG phase seems to function simultaneously as the phase transfer catalyst the reaction solvent and to provide the reaction driving force 3 PEG hydrogels may be used as probes for their macroscopic analogues by which the molecular events underlying the phase behavior of polymer salt systems can be investigated The properties of covalently cross linked PEG hydrogels have been studied It was demonstrated that these hydrogels could be thought of as analogous to polymer salt ABS without phase separation The salts examined cause collapse of the hydrogel and there is a physical limit to the degree of collapse that can be achieved In addition salts bringing about significant collapse are only prevented from reaching this limit by the limits of their own solubility This led to our discovery that PEG will phase separate with KSCN at high enough concentration of polymer and salt We have also successfully shown the development of an IL PEG hydrogel as well as a Si modified PEG hydrogel We have also demonstrated for the first time that this cross linked PEG matrix has been used to gel non aqueous solvents 4 The use of hydrophilic ionic liquids ILs in separation schemes has been accomplished via a salting out technique using inorganic kosmotropic salts that is applicable to many classes of these materials We have begun to obtain a deeper knowledge about the role that each component plays in the process including that of the ionic liquid cation and anion the kosmotropic salt cation and anions as well as the distribution of water in the system This is allowing us to design separation systems with desired properties In addition temperature studies on these aqueous biphasic systems are revealing thermodynamic data for the first time so that we can quantitate the importance of e

Separation Processes in Biotechnology Juan A. Asenjo, 2020-08-26 Edited to avoid duplication and favor comprehensiveness 20 contributors detail the recovery separation and purification operations of bioprocess technology Individual chapters in this classic yet still highly relevant work emphasize concepts that are becoming more and more important when applied to the large scale versions of techniques that are considered well established Aside from fully discussing processes *Separation Processes in Biotechnology* includes sections on concentration separation and operation purification operations and product release and recovery It also discusses plant operation and equipment and delves into economic considerations *Ion Exchange and Solvent Extraction* Jacob A. Marinsky, Yitzhak Marcus, 2021-05-30 Volume 13 of this important series continues in the tradition of its widely received predecessors presenting current advances and results in solvent extraction Contains nearly 800 helpful drawings tables

equations and bibliographic citations *Physical Chemistry and Chemical Physics Editor's Pick 2021* Malgorzata Biczysko, 2021-07-28 *Microcompartmentation and Phase Separation in Cytoplasm*, 1999-10-21 International Review of Cytology presents current advances and comprehensive reviews in cell biology both plant and animal Articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth Authored by some of the foremost scientists in the field each volume provides up to date information and directions for future research This volume provides an overview of major cytoplasmic properties and events which including cytoarchitecture and the physical properties of cytoplasm molecular compartmentation and gradients channeling sorting and trafficking It also addresses physicochemical events both measured and anticipated which attend solutions under conditions prevailing in cytoplasm molecular crowding It summarizes the current state of knowledge in the field and considers questions such as how molecules in cytoplasm interact **Ionic Liquids for Better Separation**

Processes Héctor Rodríguez, 2015-12-16 This book discusses capital separation processes of industrial interest and explores the potential for substantial improvement offered by a promising class of substances ionic liquids These low melting point salts with their unique characteristics have been gaining relevance in the field of separation through a variety of approaches The chapters are structured from an application perspective and cover the utilisation of ionic liquids in different unit operation contexts distillation liquid liquid extraction and solid liquid extraction giving an idea of their remarkable versatility The final chapters focus on the use of ionic liquids in analytical applications based on separation procedures This volume combines the review of the main advances to date with the analysis of the potential future use of ionic liquids in separation processes across a variety of fields ranging from enhancement of state of the art technologies to a revolution in the technological bases currently in use It provides a valuable resource for engineers and scientists working in the field of separation as well as for all readers generally interested in ionic liquids in particular from an application standpoint Héctor Rodríguez is a faculty member of the Department of Chemical Engineering at the University of Santiago de Compostela Spain

Chiral Recognition in Separation Methods Alain Berthod, 2010-06-16 What drives a scientist to edit a book on a specific scientific subject such as chiral mechanisms in separation methods Until December 2005 the journal Analytical Chemistry of the American Chemical Society Washington DC had an A page section that was dedicated to simple and clear presentations of the most recent techniques or the state of the art in a particular field or topic The A page section was prepared for a broad audience of chemists including industrial professionals students as well as academics looking for information outside their field of expertise 1 Daniel W Armstrong one of the editors of this journal and a twenty year long friend invited me to present my view on chiral recognition mechanisms in a simple and clear way in an A page article In 2006 the A page section was maintained as the first articles at the beginning of each first bi monthly issue but the pagination was no longer page distinguished from the regular research articles published by the journal During the time between the invitation and the

submission the A page section was integrated into the rest of the journal and the article appeared as 2006 Anal Chem 78 2093 2099 Ionic Liquids II Barbara Kirchner, Eva Perlt, 2018-09-03 The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology medicine and materials science The goal of each thematic volume is to give the non specialist reader whether in academia or industry a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed The coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual concentrating on the methodological thinking that will allow the non specialist reader to understand the information presented Contributions also offer an outlook on potential future developments in the field The chapters Ionic Liquid Liquid Chromatography A New General Purpose Separation Methodology Proteins in Ionic Liquids Current Status of Experiments and Simulations Lewis Acidic Ionic Liquids and Quantum Chemical Modeling of Hydrogen Bonding in Ionic Liquids are available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)

Wiley's Remediation Technologies Handbook Jay H. Lehr, John Wiley & Sons Ltd, 2004-07-08 Wiley's Remediation Technologies Handbook Major Contaminant Chemicals and Chemical Groups extracted from the EnviroGlobe database consists of 368 chemicals and chemical groups This book lists in alphabetical order these chemical and chemical groups along with the numerous technologies many of which are patented or trademarked techniques to remediate them A short description of each of these technologies is provided along with appropriate references Wiley's Remediation Technologies Handbook Major Contaminant Chemicals and Chemical Groups Covers the most important chemical and chemical groups that are found to pollute the environment and the ways to remediate them Gives succinct abstract describing the numerous technologies used to clean up a wide range of pollutants Provides the uses and limitations of each technique Note CD ROM DVD and other supplementary materials are not included as part of eBook file Advances in Separation Sciences Pravin G Ingole, Chaudhery Mustansar Hussain, 2024-11-30 Advances in Separation Sciences Sustainable Processes and Technologies discusses the different separation technologies and their applications in a variety of industrial processes The book lists the pros and cons of the various processes for specialized application and outlines selection criteria to provide readers with the knowledge they need to develop processes and technologies themselves Divided into eight parts chapters cover sustainable perspectives and developments theory and mechanisms of various separation processes advances in sample preparation techniques advances in chromatography advances in membrane technology advances in microfluidics green and sustainable separation sciences and challenges and commercialization In depth and step by step descriptions of the various processes

and technologies explanations of their inclusion in modern industry and scales for both experimental and theoretical models are also included Includes new research findings and relates them to industrial applications Identifies new research needs and opportunities Includes both mechanisms and applications Provides fundamental knowledge of separation processes through theories and problems Includes challenges and solutions for the commercialization of separation processes

Integrated Reaction and Separation Operations Henner Schmidt-Traub, Andrzej Gorak, 2007-12-29 Economic needs as well as ecological demands are major driving forces in improving chemical processes and plants To meet these goals processes have to be intensified in order to get products of higher quality to increase yield by reducing or even suppressing by products and to minimise energy consumption A preferred principle for such intensifications is process integration especially integration of reaction and separation operations Scientific research in this field has been boosted by certain extremely successful examples like the Eastman Kodak process for methyl acetate or the MTBE process which are milestones for this method In 2002 the German Research Foundation defined process integration as one of the major search topics for the next decade In 1998 the Department of Biochemical and Chemical Engineering at the University of Dortmund decided to pool its activities for concerted efforts in process integration and to form a joint research cluster Our interest was to find out the general challenges as well as obstacles of integrated processes and to work out methods for their design and valuation Soon it became clear that theoretical work only cannot give reasonable answers

Emulsions Reinhard Miller, Eduardo Guzman, 2025-08-11 This book presents a comprehensive investigation of the complex scientific principles and practical applications of emulsions offering valuable references for researchers industry professionals and advanced students in the fields of physical chemistry material sciences and engineering The book is structured in three sections which allow the readers to explore the fundamental principles of interfacial phenomena the methodologies for emulsion preparation and the diverse applications of emulsions in various industrial branches in depth The initial section establishes the fundamental principles with a particular focus on the physico chemical characterization of interfaces pertinent to emulsion stabilization The book meticulously examines several topics including adsorption dynamics particle laden interfaces and thin liquid films It supports these discussions with a combination of experimental techniques and theoretical insights The second section shifts focus to the practical aspects of emulsion production examining state of the art methods the role of stabilizers and strategies for enhancing their stability including innovations in nanoemulsions and aqueous two phase systems The final section presents several real world applications demonstrating the significant role that emulsions play in a number of fields including the petroleum industry pest control and pharmaceutical formulations This text featuring contributions from leading experts synthesizes foundational knowledge and cutting edge research thereby bridging the gap between theory and practice With an interdisciplinary scope the book addresses both academic and industrial perspectives and is therefore an indispensable addition to the library of anyone working with emulsions It provides the tools and understanding required to advance work in

the development of new materials optimization of formulations and investigation of the mechanics of interfacial systems

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