

# RECENT ADVANCES IN LIQUID-LIQUID EXTRACTION

EDITED BY  
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# Recent Advances In Liquid Liquid Extraction

**Gaurav Rajauria, Yvonne V. Yuan**



## **Recent Advances In Liquid Liquid Extraction:**

**Recent Advances in Liquid-Liquid Extraction** C. Hanson, 2013-10-22 Recent Advances in Liquid liquid Extraction focuses on the applications of liquid extraction The selection first discusses solvent extraction Concerns include organic and inorganic separations mass transfer process solvent extraction economics and coalescence in liquid liquid systems The book focuses on the chemistry of solvent extraction Extraction by acidic organophosphorus compounds extraction by phosphorus bonded oxygen donor solvents extraction by high molecular weight amines and synergistic extraction are elaborated The book also focuses on industrial organic processes industrial contacting equipment response characteristics and control of extraction processes and calculation of contactors with longitudinal mixing The selection presents the study of longitudinal mixing in liquid liquid contactors Rotating disc contactors packed columns vibrating plate extractors and Oldshue Rushton columns are described The text also discusses heat transfer by direct liquid liquid contact and the coalescence of liquid droplets and liquid dispersion The selection is a vital source of data for readers interested in liquid extraction

*Encyclopedia of Chemical Processing and Design* John J. McKetta Jr, 1984-11-01 Written by engineers for engineers with over 150 International Editorial Advisory Board members this highly lauded resource provides up to the minute information on the chemical processes methods practices products and standards in the chemical and related industries **Recent Advances in Analytical Techniques Volume 1** Atta -ur- Rahman, 2017-09-06 Recent Advances in Analytical Techniques is a collection of updates in techniques used in chemical analysis This volume presents information about a selection of analytical techniques Readers will find information about New methods of sample preparation in biological and environmental analysis Developments in electrochemical sensors In vivo cytometry for detection of tumor cells Flow discharge spectroscopy for depth profile analysis Advances in photodynamic therapy New methods to analyze volatility in alcoholic beverages

**Handbook of Separation Process Technology** Ronald W. Rousseau, 1987-05-13 Surveys the selection design and operation of most of the industrially important separation processes Discusses the underlying principles on which the processes are based and provides illustrative examples of the use of the processes in a modern context Features thorough treatment of newer separation processes based on membranes adsorption chromatography ion exchange and chemical complexation Includes a review of historically important separation processes such as distillation absorption extraction leaching and crystallization and considers these techniques in light of recent developments affecting them **Recent Advances in Analytical Chemistry** Muharrem Ince, Olcay Kaplan Ince, 2019-04-10 This book focuses on recent and future trends in analytical methods and provides an overview of analytical chemistry As a comprehensive analytical chemistry book it takes a broad view of the subject and integrates a wide variety of approaches The book provides separation approaches and method validation as well as recent developments and applications in analytical chemistry It is written primarily for researchers in the fields of analytical chemistry environmental chemistry and applied chemistry The aim of the book is to

explain the subject clarify important studies and compare and develop new and groundbreaking applications Written by leading experts in their respective areas the book is highly recommended for professionals interested in analytical chemistry because it provides specific and comprehensive examples

### **Recent Advances in Analytical Techniques**

Atta-ur-Rahman, Sibel A. Ozkan, 2019-01-12 Recent Advances in Analytical Techniques is a series of updates in techniques used in chemical analysis Each volume presents a selection of chapters that explain different analytical techniques and their use in applied research Readers will find updated information about developments in analytical methods such as chromatography electrochemistry optical sensor arrays for pharmaceutical and biomedical analysis The third volume of the series features seven reviews on a variety of techniques Chiral Analysis of Methamphetamine and Related Controlled Substances in Forensic Science Low cost feedstocks for biofuels and high value added products production Using multi parameter flow cytometry as a tool to enhance the process efficiency Recent Trends in the Application of Ionic Liquids for Micro Extraction Techniques Electrospun Nanofibers Functional and Attractive Materials for the Sensing and Separation Approaches in Analytical Chemistry Neutron Activation Analysis An Overview Non commercial Polysaccharides based Chiral Selectors in Enantioselective Chromatography Ru II polypyridyl Complexes as Potential Sensing Agents for Cations and Anions

### **Recent Advances in Micro- and Macroalgal Processing**

Gaurav Rajauria, Yvonne V. Yuan, 2021-04-06 Recent Advances in Micro and Macroalgal Processing A comprehensive review of algae as novel and sustainable sources of algal ingredients their extraction and processing This comprehensive text offers an in depth exploration of the research and issues surrounding the consumption economics composition processing and health effects of algae With contributions from an international team of experts the book explores the application of conventional and emerging technologies for algal processing The book includes recent developments such as drying and milling technologies along with advancements in sustainable greener techniques The text also highlights individual groups of compounds including polysaccharides proteins polyphenols carotenoids lipids and fibres from algae The authors provide insightful reviews of the traditional and more recent applications of algae algal extracts in food feed pharmaceutical and cosmetics products Offering a holistic view of the various applications the book looks at the economic feasibility market trends and considerations and health hazards associated with algae for industrial applications This important book Provides a comprehensive overview of algal biomolecules and the role of emerging processing technologies Explores the potential biological and health benefits of algae and their applications in food pharmaceuticals and cosmetic products Includes a current review of algal bioactives and processing technologies for food and ingredient manufacturers Contains contributions from leading academic and industrial experts Written for food scientists allied researchers and professional food technologists Recent Advances in Micro and Macroalgal Processing Food and Health Perspectives offers a guide to the novel processing and extraction techniques for exploring and harnessing the immense potential of algae

### **Recent Advances in Natural Products Analysis**

Sayed

Mohammad Nabavi, Mina Saeedi, Seyed Fazel Nabavi, Ana Teresa Sanches Silva, 2020-03-07 *Recent Advances in Natural Products Analysis* is a thorough guide to the latest analytical methods used for identifying and studying bioactive phytochemicals and other natural products. Chemical compounds such as flavonoids, alkaloids, carotenoids, and saponins are examined, highlighting the many techniques for studying their properties. Each chapter is devoted to a compound category, beginning with the underlying chemical properties of the main components, followed by techniques of extraction, purification, and fractionation, and then techniques of identification and quantification. Biological activities, possible interactions, levels found in plants, the effects of processing, and current and potential industrial applications are also included. Focuses on the latest analytical techniques used for studying phytochemical and other biological compounds. Authored and edited by the top worldwide experts in their field. Discusses the current and potential applications and predicts future trends of each compound group.

*Recent Advances in Edible Fats and Oils Technology* Yee-Ying Lee, Teck-Kim Tang, Eng-Tong Phuah, Oi-Ming Lai, 2022-03-15 This book is written by international experts with both academic and industrial credentials. It presents for the first time a collection of up-to-date scientific advances in the area of edible fats and oils technology over a span of 10 years from 2009 to the year 2019. The book covers the existing and recent advanced techniques adopted in the edible fats and oils research and touches on the processing and modification, the traceability and sustainability issues of fats and oils. Some recent technologies like supercritical carbon dioxide, microwave, ultrasound, and enzymatic assisted processes, ionic liquid, enzymatic processes, biosensor, and membrane technology are presented in the book. The book aims to provide the technologists and researchers in research, development, and operations in the edible fats and oils industries with critical and readily accessible information on the recent advances in the field. The book is divided into three broad sections: Fats and Oils Chemistry and Processing; Fats and Oils Modification; and Health Implications and Fats and Oils Safety. Social, Environmental, and Economic Impacts. It is an extremely comprehensive and valuable resource which serves as an essential reference for students and lipid scientists from academia or industry.

*Superhydrophobic Coating - Recent Advances in Theory and Applications* Junfei Ou, 2024-02-07 Bio-inspired superhydrophobic coatings exhibit exceptional nonwetting properties characterized by a large contact angle and minimal contact angle hysteresis. As a result, they have generated significant interest across diverse fields. This book explores advancements in superhydrophobic coatings, including their fabrication and application. It specifically addresses environmentally friendly chemicals for fabricating superhydrophobic coatings. Moreover, it delves into the application of superhydrophobic coatings in various scenarios, including anti-icing, anti-biofouling, and gas-liquid separation. By addressing these topics, the book offers a comprehensive overview of the historical background and progress made in the realm of superhydrophobic coatings. Furthermore, it serves as a rallying call to scientists worldwide, urging collaborative efforts to overcome development barriers and explore new application domains for the lotus-inspired superhydrophobic coating.

**Recent Advances in Chemical Engineering** I. Regupathi, Vidya Shetty K, Murugesan

Thanabalan,2016-10-12 The book introduces the outcomes of latest research in the field of Chemical Engineering The book also illustrates the application of Chemical Engineering principles to provide innovative and state of the art solutions to problems associated with chemical industries It covers a wide spectrum of topics in the area of Chemical Engineering such as Transfer operations novel separation processes adsorption photooxidation process control modelling and simulation The book provides timely contribution towards implementation of recent approaches and methods in Chemical Engineering Research It presents chapters focussed on several Chemical Engineering principles and methodologies of wide multidisciplinary applicability The intended audience of this book will mainly consist of researchers research students and practitioners in Chemical Engineering and allied fields The book can also serve researchers and students involved in multidisciplinary research

**Unit Operations Handbook** John J. McKetta Jr,2018-12-12 Emphasizes the design control and functioning of various unit operations offering shortcut methods of calculation along with computer and nomographic solution techniques Provides practical sections on conversion to and from SI units and cost indexes for quick updating of all cost information This book is designed for mechanical chemical process design project and materials engineers and continuing education courses in these disciplines

**Recent Advances in Redox Active Plant and Microbial Products** Claus Jacob,Gilbert Kirsch,Alan Slusarenko,Paul G. Winyard,Torsten Burkholz,2014-11-25 Nature endows us with a treasure chest of Green Gold full of amazing redox active substances which interfere with numerous biological processes in our own body in animals bacteria fungi and plants Whilst such natural products are all around and also in us we still do not fully understand how these compounds actually work This book attempts to resolve some of the mysteries and riddles associated with such products Written by more than thirty international experts from academia and industry it places a focus on modern developments in this field and considers such natural products from various angles from their isolation and characterization all along to product development and commercialization Throughout the reader will be confronted with modern approaches which enable the efficient identification and isolation of new natural products help to elucidate their mode s of action and permit practical uses in Medicine Cosmetics Agriculture Industry and as functional foods

Chemical Reactors Pierre Trambouze,2004 This in depth revision provides a summary of current knowledge updated based on the most recent literature in the field The reader will find recommendations on the choice of correlations to apply depending on the case and useful references to the original documents on industrial processes This practical user s guide is designed for engineers in industries involved with the problems of chemical transformations and for professors and students of process engineering Whether the reader is working in a design department an engineering firm or an R D department or is managing production plants he will find material here that is directly applicable to the solution of his problems Contents 1 Definitions and fundamental concepts 2 Single phase reactors 3 General characteristics of reactors with two fluid phases 4 Experimental data and correlations for gas liquid reactors 5 Experimental data and correlations for liquid liquid reactors 6 General characteristics of heterogeneous

catalytic reactors 7 Reactors employing a fluid phase and a catalytic solid phase fixed bed moving bed fluidized bed 8 Three phase reactors gas liquid and catalytic solid 9 Case studies 10 Multifunctional reactors and future developments General nomenclature Index      Recent Advances in Ionic Liquids Mohammed Rahman,2018-09-26 Recent Advances in Ionic Liquids contains research on the preparation characterization and potential applications of stable ionic liquids ILs ILs are a class of low and stable melting point ionic compounds that have a variety of properties allowing many of them to be sustainable green solvents It is promising novel research from top to bottom and has received a lot of interest over the last few decades It covers the advanced topics of physical catalytic chemical polymeric and potential applications of ILs This book features interesting reports on cutting edge science and technology related to the preparation characterization polymerization and potential applications of ILs This potentially unique work offers various approaches on the R      **Extractive Metallurgy of Molybdenum** C. K. Gupta,2017-11-13 Extractive Metallurgy of Molybdenum provides an up to date comprehensive account of the extraction and process metallurgy fields of molybdenum The book covers the history of metallurgy of molybdenum from its beginnings to the present day Topics discussed include molybdenum properties and applications pyrometallurgy of molybdenum hydrometallurgy of molybdenum electrometallurgy of molybdenum and a survey of molybdenum resources and processing The book will be a useful reference for metallurgists materials scientists researchers and students It will also be an indispensable guide for world producers processors and traders of molybdenum      **Proceedings of the Symposium on Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials** Karl M. Kadish,Rodney S. Ruoff,1994      **Recent Advances in Analytical Techniques: Volume 5** Atta-ur-Rahman,Sibel Ozkan,2022-01-05 Recent Advances in Analytical Techniques is a series of updates in techniques used in chemical analysis Each volume presents a selection of chapters that explain different analytical techniques and their use in applied research Readers will find updated information about developments in analytical methods such as chromatography electrochemistry optical sensor arrays for pharmaceutical and biomedical analysis The fifth volume of the series features five reviews which demonstrate chemical analysis techniques applied in different disciplines Superior Aspects of Liquid Chromatography Based Mass Spectrometers in Chiral Analysis New Trends in Sample Preparation for Pharmaceutical and Biological Analysis by Chromatographic Methods Qualitative and Quantitative Investigation of Bio Tissues using Microscopy and Data Mining Analytical Techniques For Analysis of Metals and Minerals in The Soil Samples Monitoring Therapeutic Response in Cancers A Raman Spectroscopy Approach      **Development of Alternative Green Sample Preparation Techniques** Emanuela Gionfriddo,2020-11-23 The Special Issue of Separations Development of Alternative Green Sample Preparation Techniques provides an overview on recent trends in green sample preparation This Special Issue of Separations collates 11 impressive contributions that describe the state of the art in the development of green extraction technologies from green materials for microextraction to the development of new sampling devices geometries for enhanced extraction efficiency and analysis throughput      Recent

Advances in Medicinal Chemistry Atta-ur-Rahman, Muhammad Iqbal Choudhary, George Perry, 2015-12-01 Recent Advances in Medicinal Chemistry is a book series focused on leading edge research on developments in rational drug design synthetic chemistry bioorganic chemistry high throughput screening combinatorial chemistry drug targets and natural product research and structure activity relationship studies The series presents highly cited contributions first published in the impact factor journal Mini Reviews in Medicinal Chemistry Contributors to this volume have updated their work with new experimental data and references following their initial research Each volume highlights a number of important topics in current research in medicinal chemistry Selected chapters in this volume include A brief review of polyphenols as phytotherapeutic agents Flavonoids in foods and biological samples Cannabinoid use in treating Parkinson s Disease symptoms And much more

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