

Ali Mohammad · Inamuddin *Editors*

# Green Solvents II

Properties and Applications  
of Ionic Liquids

 Springer

# Green Solvents Ii Properties And Applications Of Ionic Liquids

**Ali Mohammad, Inamuddin Dr.**



## **Green Solvents Ii Properties And Applications Of Ionic Liquids:**

**Green Solvents II** Ali Mohammad, Dr. Inamuddin, 2012-03-19 The conventional solvents used in chemical pharmaceutical biomedical and separation processes represent a great challenge to green chemistry because of their toxicity and flammability Since the beginning of the 12 Principles of Green Chemistry in 1998 a general effort has been made to replace conventional solvents with environmentally benign substitutes Water has been the most popular choice so far followed by ionic liquids surfactant supercritical fluids fluoruous solvents liquid polymers bio solvents and switchable solvent systems Green Solvents Volume I and II provides a throughout overview of the different types of solvents and discusses their extensive applications in fields such as extraction organic synthesis biocatalytic processes production of fine chemicals removal of hydrogen sulphide biochemical transformations composite material energy storage devices and polymers These volumes are written by leading international experts and cover all possible aspects of green solvents properties and applications available in today s literature Green Solvents Volume I and II is an invaluable guide to scientists R D industrial specialists researchers upper level undergraduates and graduate students Ph D scholars college and university professors working in the field of chemistry and biochemistry

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**Green Solvents II** Ali Mohammad, Dr. Inamuddin, 2012-03-18 The conventional solvents used in chemical pharmaceutical biomedical and separation processes represent a great challenge to green chemistry because of their toxicity and flammability Since the beginning of the 12 Principles of Green Chemistry in 1998 a general effort has been made to replace conventional solvents with environmentally benign substitutes Water has been the most popular choice so far followed by ionic liquids surfactant supercritical fluids fluoruous solvents liquid polymers bio solvents and switchable solvent systems Green Solvents Volume I and II provides a throughout overview of the different types of solvents and discusses their extensive applications in fields

such as extraction organic synthesis biocatalytic processes production of fine chemicals removal of hydrogen sulphide biochemical transformations composite material energy storage devices and polymers These volumes are written by leading international experts and cover all possible aspects of green solvents properties and applications available in today's literature Green Solvents Volume I and II is an invaluable guide to scientists R D industrial specialists researchers upper level undergraduates and graduate students Ph D scholars college and university professors working in the field of chemistry and biochemistry

**Industrial Applications of Green Solvents** Inamuddin, 2019-08-20 The book explores industrial applications of green solvents in industrially important areas such as oil extraction sensors and biosensors CO<sub>2</sub> capture lignocellulosic biomass utilization bio based chemicals and their application in catalysis electrochemical devices purification of pharmaceuticals organic synthesis and transformations bio lubricant additives aluminum and aluminum alloy production The solvents covered include water ionic liquids supercritical carbon dioxide and glycerol

**Third Generation Ionic Liquids: Synthesis to Applications** Ravi Tomar, Vivek Mishra, 2025-09-23 Third Generation Ionic Liquids Synthesis to Applications is an enquiry into the evolution functional design and multidisciplinary applications of next generation ionic liquids The book focuses on third generation ionic liquids exploring themes such as novel synthesis routes structure property relationships tunability and integration into industrial and pharmaceutical systems It spans major topic areas including supported ionic liquid phases SILPs catalysis green solvents electrochemical systems and biomedical interfaces By bridging fundamental chemistry with real world applications the volume supports innovation in green chemistry energy systems and advanced materials Key features Illustrates synthesis pathways and functionalization techniques Explains structure performance correlations Demonstrates applications in catalysis electrochemistry and CO capture Highlights environmental toxicological and regulatory aspects Includes expert contributions and interdisciplinary case studies

**Ionic Liquids: Properties and Applications** Francesca D'Anna, Jason Harper, 2019-10-17 Sustainability defined as the way to meet the needs of the present generation without compromising the ability of future ones to meet their own is one of the main challenges of modern society Within this context chemistry plays a significant role and solvent nature as well as its environmental impact are pivotal issues frequently addressed Ionic liquids i.e organic salts that have melting temperatures lower than 100 °C have been frequently hailed as alternatives to conventional organic solvents Their greenness has been mainly ascribed to their low vapor pressure and flammability However in addition to this their high solubilizing ability and low miscibility with conventional organic solvents frequently allow for reducing the amount used as well as for their recycling Ionic liquids especially the ones featured by aromatic cations are frequently described as polymeric supramolecular fluids constructed through the establishment of feeble but cooperative supramolecular interactions like Coulomb and interactions as well as hydrogen bonds In general ionic liquids are also indicated as designer solvents as it is possible to tailor their features to specific applications by simply modifying their cation or anion structure In this way small changes in the ion's

structure can give rise to solvents showing very different properties The above premises widely justify the growing interest in the properties and applications of ionic liquids seen in recent literature according to Scopus more than 27 000 papers published in the last five years have ionic liquids as a keyword Thanks to their properties they have been variously used as solvent media solvents for the obtainment of gel phases components in the building of dye sensitized solar cells media for the preparation of thermochromic materials etc This Research Topic aims to present how structural features can determine not only the properties of ionic liquids but also their possible employment In this latter case the interest arises from their ability to affect the outcome of a given reaction in terms of rate yield and nature of the products obtained for general use in the field of materials chemistry This article collection is dedicated to Prof Kenneth R Seddon for his outstanding contribution to the formation and development of the ionic liquids community **Ionic Liquids for Organic Synthesis** Ravi Tomar,2025-04-09 Medicinal Plants of Pilibhit Tiger Reserve PTR India explores the reserve s extensive biodiversity focusing specifically on its rich array of medicinal flora It serves as an invaluable resource detailing various plant species and their traditional uses alongside their potential applications in modern medicine This comprehensive work aims to bridge traditional wisdom with scientific research Key Features Detailed botanical descriptions and ecological roles of identified medicinal plants Insights into traditional knowledge and cultural significance associated with these plants Discussions on conservation challenges and strategies for preserving biodiversity Exploration of these plants roles in sustainable healthcare and local economies

**Applications of Nanotechnology for Green Synthesis** Inamuddin,Abdullah M. Asiri,2020-07-02 Traditional methods in synthetic chemistry produce chemical waste and byproducts yield smaller desired products and generate toxic chemical substances but the past two centuries have seen consistent greener improvements in organic synthesis and transformations These improvements have contributed to substance handling efficiency by using green engineered forerunners like sustainable techniques green processes eco friendly catalysis and have minimized energy consumption reduced potential waste improved desired product yields and avoided toxic organic precursors or solvents in organic synthesis Green synthesis has the potential to have a major ecological and monetary impact on modern pharmaceutical R D and organic chemistry fields This book presents a broad scope of green techniques for medicinal analytical environmental and organic chemistry applications It presents an accessible overview of new innovations in the field dissecting the highlights and green chemistry attributes of approaches to green synthesis and provides cases to exhibit applications to pharmaceutical and organic chemistry Although daily chemical processes are a major part of the sustainable development of pharmaceuticals and industrial products the resulting environmental pollution of these processes is of worldwide concern This edition discusses green chemistry techniques and sustainable processes involved in synthetic organic chemistry natural products drug syntheses as well various useful industrial applications **Handbook of Ionic Liquids** Sanchayita Rajkhowa,Pardeep Singh,Anik Sen,Jyotirmoy Sarma,2024-01-03 Handbook of Ionic Liquids A one stop reference for researchers interested in

ionic liquids and their applications Handbook of Ionic Liquids Fundamentals Applications and Sustainability constitutes an overview of the latest advances in ionic liquid chemistry It offers a comprehensive summary of the development history of ionic liquids their design and the diverse array of applications including green and sustainable synthesis catalysis drug development and medicine biotechnology materials science and electrochemistry The authors explain a variety of processes used to develop novel materials with ionic liquids and describe likely future developments using practical examples taken from contemporary research and development in the field The book includes discussions of biomass conversion CO<sub>2</sub> capture and more You ll also discover A thorough introduction to the theory of ionic liquids as well as their different types and recycling methods Comprehensive explorations of the physico chemical properties of ionic liquids Practical discussions of ionic liquid synthesis and analysis including green synthesis and heterocyclic chemistry applications Summary of the use of ionic liquids in materials science including polymers energy conversion and storage devices Perfect for organic catalytic physical analytical and environmental chemists Handbook of Ionic Liquids Fundamentals Applications and Sustainability will also benefit electrochemists materials scientists and biotechnologists with an interest in ionic liquids and their application

*Developments in Surface Contamination and Cleaning - Vol 6* Rajiv Kohli,Kashmiri L. Mittal,2013-05-27 In this series Rajiv Kohli and Kash Mittal have brought together the work of experts from different industry sectors and backgrounds to provide a state of the art survey and best practice guidance for scientists and engineers engaged in surface cleaning or handling the consequences of surface contamination The expert contributions in this volume cover important fundamental aspects of surface contamination that are key to understanding the behavior of specific types of contaminants This understanding is essential to develop preventative and mitigation methods for contamination control The coverage complements the treatment of surface contamination in vol 1 Fundamental and Applied Aspects This volume covers Sources and Generation of Particles Manipulation Techniques for Particles on Surfaces Particle Deposition and Rebound Particle Behavior in Liquid Systems Biological and Metallic Contamination and includes a comprehensive list of current standards and resources Comprehensive coverage of innovations in surface contamination and cleaning Written by established experts in the contamination and cleaning field Each chapter is a comprehensive review of the state of the art Case studies included

*AToMech1-2023 Supplement* Erasmo Carrera,Faramarz Djavanroodi,Muhammad Asad,2023-11-05 The book presents a supplement to the proceedings of the International Conference on Advanced Topics in Mechanics of Materials Structures and Construction AToMech1 2023 Keywords Hand Gesture Control Accuracy Metal Hot Extrusion Artificial Neural Networks Ionanofluids Concrete Made from Wastewater Bottle Caps Machine Learning Pool Boiling Heat Transfer Nanofluids Additively Manufactured Steels **Towards Green Chemical Processes: Strategies and Innovations** Pallavi Jain,Sapna Raghav,Anil Kumar Jangir,2025-08-01 This book is designed for forward thinking professionals researchers and senior students in chemistry chemical engineering and industrial manufacturing this essential resource explores how green

chemistry can be effectively applied in real world industrial settings It also speaks directly to environmental engineers and sustainability experts eager to stay ahead of emerging trends and innovations in sustainable practices With practical insights tailored for industry leaders and policymakers committed to reducing environmental impact this work delivers scalable solutions and cutting edge strategies for transforming industrial processes A vital tool for anyone looking to drive meaningful change it empowers organizations to meet sustainability targets while enhancing efficiency and innovation *White*

*Biotechnology for Sustainable Chemistry* Maria Alice Z. Coelho, Bernardo D. Ribeiro, 2016 **Green Sustainable Process**

**for Chemical and Environmental Engineering and Science** Tariq Altalhi, Mohammad Abu Jafar

Mazumder, Inamuddin, 2023-04-29 *Green Sustainable Process for Chemical and Environmental Engineering and Science*

*Applications of Advanced Nanostructured Materials in Wastewater Remediation* reviews recent applications of nanostructured materials for remediation their preparation characterization and efficiency for water remediation technologies The book provides ideas on how nanomaterials are the real solution to water purification or new environmental threat Sections cover nanomaterial adsorbents functionalized magnetic nanomaterials nanostructured polymer hydrogels carbon nanomaterials biogenic nanoparticles green chemistry concepts aqua defluoridation and advanced remediation techniques The book also includes the current status of wastewater treatment using nanomaterials along with challenges and perspectives for further improvements Provides an overview of the application of nanomaterials for wastewater remediation Targets the applications of nanomaterials in the environment Focuses on usage of polymeric nanocomposites graphene based composites and magnetite nanoparticles for environmental remediation **Handbook of Membrane Separations** Anil K.

Pabby, S. Ranil Wickramasinghe, Ana-Maria Sastre, 2023-12-22 *The third edition of the Handbook of Membrane Separations*

*Chemical Pharmaceutical Food and Biotechnological Applications* provides a comprehensive discussion of membrane applications Fully updated to include the latest advancements in membrane science and technology it is a one of its kind overview of the existing literature This fully illustrated handbook is written by experts and professionals in membrane applications from around the world Key Features Includes entirely new chapters on organic solvent resistant nanofiltration membrane condensers membrane reactors in hydrogen production membrane materials for haemodialysis and integrated membrane distillation Covers the full spectrum of membrane technology and its advancements Explores membrane applications in a range of fields from biotechnological and food processing to industrial waste management and environmental engineering This book will appeal to both newcomers to membrane science as well as engineers and scientists looking to expand their knowledge on upcoming advancements in the field *Developments in Surface Contamination and*

*Cleaning: Applications of Cleaning Techniques* Rajiv Kohli, K.L. Mittal, 2018-11-27 *Developments in Surface Contamination and Cleaning Applications of Cleaning Techniques* Volume Eleven part of the *Developments in Surface Contamination and Cleaning* series provides a guide to recent advances in the application of cleaning techniques for the removal of surface

contamination in various industries such as aerospace automotive biomedical defense energy manufacturing microelectronics optics and xerography The material in this new edition compiles cleaning applications into one easy reference that has been fully updated to incorporate new applications and techniques Taken as a whole the series forms a unique reference for professionals and academics working in the area of surface contamination and cleaning Presents the latest reviewed technical information on precision cleaning applications as written by established experts in the field Provides a single source on the applications of innovative precision cleaning techniques for a wide variety of industries Serves as a guide to the selection of precision cleaning techniques for specific applications

*Advanced Materials for a Sustainable Environment* Naveen Kumar, Peter Ramashadi Makgwane, 2022-12-30 This book summarizes recent and critical aspects of advanced materials for environmental protection and remediation It explores the various development aspects related to environmental remediation including design and development of novel and highly efficient materials aimed at environmental sustainability Synthesis of advanced materials with desirable physicochemical properties and applications is covered as well Distributed across 13 chapters the major topics covered include sensing and elimination of contaminants and hazardous materials via advanced materials along with hydrogen energy biofuels and CO<sub>2</sub> capture technology Discusses the development in design of synthesis process and materials with sustainable approach Covers removal of biotic and abiotic wastes from the aqueous systems Includes hydrogen energy and biofuels under green energy production Explores removal of environmental soil and air contaminants with nanomaterials Reviews advanced materials for environmental remediation in both liquid and gas phases

Advanced Green Chemistry - Part 1: Greener Organic Reactions And Processes Istvan T Horvath, Max Malacria, 2017-12-15 Green Chemistry has evolved in response to several environmental issues in the second half of the last century mostly due to the almost freely expanding chemical petrochemical and pharmaceutical industries During the past two decades Green Chemistry grew rapidly and we can now consider this area as a mature and powerful field Tremendous development has taken place in many important areas including renewable energy and resources reaction environments catalysis synthesis chemical biology green materials in situ monitoring and facile recycling The combination of Green Chemistry with engineering biology toxicology and physics will lead to novel interdisciplinary systems which can now lift Green Chemistry to the next advanced level The editors of this book have assembled as authors among the best specialists of this growing area of research This collection of reviews and perspectives provides an exciting vision of the more recent developments in Green Chemistry It illustrates the breath of the field and its role to address environmental issues This volume will serve as a book of reference showing a panoramic view of the field and a preview of its future direction as well as a book of inspiration for those aiming to further advance its frontiers

Natural Product Extraction Juliana M Prado, Mauricio A Rostagno, 2022-07-20 Natural products are used by the food pharmaceutical and cosmetics industries and extraction technologies and potential applications for plant extracts are of interest to many industrial sectors Extraction of



natural products in an economic and environmentally friendly way is of high importance to all industries involved The second edition of this book presents an updated holistic in depth view of the more environmentally benign techniques available for the extraction of natural products along with their newest applications and case studies Conventional and emerging extraction techniques are discussed in detail New topics include enzymes pulsed electric energy and on line in line analysis Written for academics and industrialists working in both natural product extraction and green chemistry this new edition provides a valuable update on current trends in the field

Comprehensive Foodomics ,2020-11-12 Comprehensive Foodomics Three Volume Set offers a definitive collection of over 150 articles that provide researchers with innovative answers to crucial questions relating to food quality safety and its vital and complex links to our health Topics covered include transcriptomics proteomics metabolomics genomics green foodomics epigenetics and noncoding RNA food safety food bioactivity and health food quality and traceability data treatment and systems biology Logically structured into 10 focused sections each article is authored by world leading scientists who cover the whole breadth of Omics and related technologies including the latest advances and applications By bringing all this information together in an easily navigable reference food scientists and nutritionists in both academia and industry will find it the perfect modern day compendium for frequent reference List of sections and Section Editors Genomics Olivia McAuliffe Dept of Food Biosciences Moorepark Fermoy Co Cork Ireland Epigenetics Noncoding RNA Juan Cui Department of Computer Science Engineering University of Nebraska Lincoln Lincoln NE Transcriptomics Robert Henry Queensland Alliance for Agriculture and Food Innovation The University of Queensland St Lucia Australia Proteomics Jens Brockmeyer Institute of Biochemistry and Technical Biochemistry University Stuttgart Germany Metabolomics Philippe Schmitt Kopplin Research Unit Analytical BioGeoChemistry Neuherberg Germany Omics data treatment System Biology and Foodomics Carlos Leon Canseco Visiting Professor Biomedical Engineering Universidad Carlos III de Madrid Green Foodomics Elena Ibanez Foodomics Lab CIAL CSIC Madrid Spain Food safety and Foodomics Djuro Josic Professor Medicine Research Warren Alpert Medical School Brown University Providence RI USA Sandra Kraljevic Pavelic University of Rijeka Department of Biotechnology Rijeka Croatia Food Quality Traceability and Foodomics Daniel Cozzolino Centre for Nutrition and Food Sciences The University of Queensland Queensland Australia Food Bioactivity Health and Foodomics Miguel Herrero Department of Bioactivity and Food Analysis Foodomics Lab CIAL CSIC Madrid Spain Brings all relevant foodomics information together in one place offering readers a one stop comprehensive resource for access to a wealth of information Includes articles written by academics and practitioners from various fields and regions Provides an ideal resource for students researchers and professionals who need to find relevant information quickly and easily Includes content from high quality authors from across the globe

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