

Green Chemistry and Sustainable Technology

Farid Chemat
Maryline Abert Vian *Editors*

Alternative Solvents for Natural Products Extraction

 Springer

Alternative Solvents For Natural Products Extraction Green Chemistry And Sustainable Technology

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Alternative Solvents For Natural Products Extraction Green Chemistry And Sustainable Technology:

Alternative Solvents for Natural Products Extraction Farid Chemat, Maryline Abert Vian, 2014-08-28 This book presents a complete picture of the current state of the art in alternative and green solvents used for laboratory and industrial natural product extraction in terms of the latest innovations original methods and safe products It provides the necessary theoretical background and details on extraction techniques mechanisms protocols industrial applications safety precautions and environmental impacts This book is aimed at professionals from industry academicians engaged in extraction engineering or natural product chemistry research and graduate level students The individual chapters complement one another were written by respected international researchers and recognized professionals from the industry and address the latest efforts in the field It is also the first sourcebook to focus on the rapid developments in this field

Organic Synthesis, Natural Products Isolation, Drug Design, Industry and the Environment Chhanda Mukhopadhyay, Bubun Banerjee, 2023-07-04 Over the years applications of various non conventional solvents diversified in various fields such as organic synthesis natural products drug design pharmaceuticals dyes and agrochemical industries This book consists of nine chapters which present recent advances and applications of various non conventional solvents in organic transformations drug design and bioremediation Environmental impacts of non conventional solvents and comparison between traditional solvents and non conventional solvents are also discussed in this book

Sustainable Analytical Techniques in Food Science Bárbara Socas Rodríguez, Antonio V. Herrera Herrar, Alicia Gil Ramírez, Mauricio A. Rostagno, 2024-11-07 Sustainable Analytical Techniques in Food Science covers the most relevant developments for the analytical evaluation and analysis of macro and micronutrients contaminants and microbiological studies as well as the approaches in food authentication and characterization With a focus on sustainability this book provides a practical guide for researchers to adopt greener approaches for the study of food matrices including toxicity safety and quality evaluations It is an excellent guide for researchers working in the area of food sciences that want to assure the sustainability of the methodologies they are currently developing or applying in their laboratories Offers sustainable food analysis techniques for researchers to apply in their laboratories Adopts an analytical approach to address the essential developments in food science and processing Addresses future perspective in sustainable food analysis techniques

Alternative Energy Sources for Green Chemistry Georgios Stefanidis, Andrzej Stankiewicz, 2016-08-24 The use of alternative energy forms and transfer mechanisms is one of the key approaches of process intensification In recent years significant amounts of research have been carried out in developing chemical processing technologies enhanced by plasma electric and magnetic fields electromagnetic and ultra sound waves and high gravity fields Discussing the broad impact of alternative energy transfer technologies on reactions separations and materials synthesis this book reports on recent breakthrough results in various application areas It provides a comprehensive overview of the current developments in the field The book enables industrialists academics and

postgraduates in alternative energy based processing to see the potential of alternative energies for green chemistry and sustainability of chemical manufacturing

Solvents - Dilute, Dissolve, and Disperse - Insights on Green Solvents and Distillation Raffaello Papadakis, Vilmar Steffen, 2024-08-21 The book *Solvents Dilute Dissolve and Disperse Insights on Green Solvents and Distillation* takes the reader on a journey of chemistry and engineering toward sustainability The book unravels the potential of green solvents which are remarkably versatile low toxicity alternatives to traditional solvents that promise to reduce environmental impact Latest research on supercritical fluids ionic liquids and deep eutectic solvents are carefully reviewed with emphasis on the numerous applications of green solvents Additionally as industrial demands evolve the development of existing techniques is necessary Distillation the cornerstone of industrial separation has been reimaged through groundbreaking approaches allowing for reduced operational costs and a diminished environmental footprint The novel approaches in distillation offer advancement allowing us to tackle the complexities of separating complex mixtures with unprecedented precision Acknowledging these facts this book covers new trends in this exciting research field of science and engineering The book is an essential read for chemists engineers environmentalists and anyone committed to fostering innovation for a greener tomorrow

Theory and Applications of Green Corrosion Inhibitors Inamuddin, 2021-01-05 The book presents theoretical insights characterization tools and mechanisms of green corrosion inhibitors and their industrial applications in areas such as reinforced concrete coating aircraft oil and gas acid pickling water industry and the protection of metals and alloys used in electronic devices Keywords Biocorrosion Prevention Green Corrosion Inhibitors Corrosion Prevention of Metals Alloys Corrosion Inhibitors for Concrete Corrosion Prevention for Electronic Devices Biological Wastes Biodegradable Plants Smart Coatings Quantum Chemistry Molecular Dynamics Simulation Quantitative Structure Activity Relationship QSAR Pyrazine Corrosion Inhibitors

Plant Based "Green Chemistry 2.0" Ying Li, Farid Chemat, 2019-07-08 This book provides practical information on obtaining and using a wide variety of plant based reagents for different sectors addressing the needs and challenges in a single resource The chapters complement each other seamlessly and present contributions from reputed international researchers and renowned professionals from industry covering the latest efforts in the field The book serves as the starting point for future collaborations in the new area Plant Based Green Chemistry between research industry and education covering large ecologic and economic applications perfume cosmetic pharmaceutical food ingredients nutraceuticals biofuels or fine chemicals industries This book is aimed at professionals from industries academicians engaged in plant based green chemistry researchers and graduate level students but will also be useful to food technologists and students and researchers involved in natural products chemistry

Renewable Resources for Surface Coatings, Inks and Adhesives Rainer Höfer, 2022-11-11 Providing a detailed survey of renewable raw materials for paints inks and glues this book is ideal for researchers and practitioners working in the areas of green chemistry industrial chemistry and sustainability Beginning with a brief history of coatings and adhesives this book

walks the reader through the chemistry properties sourcing and processing of a number of renewable raw materials including lipids natural resins proteins and carbohydrates Their use in a range of recent developments and concepts from material protection to decorative paints and coatings adhesives and sealants is highlighted providing the reader with a complete and modern foundation to the field

Women in Science: Chemistry Jennifer L. Schaefer, Elisabeth

Lojou, Svetlana Ivanova, Silvia Giordani, Qin Li, 2022-02-08

Green Development of Photoluminescent Carbon Dots Bin

Bin Chen, Meng Li Liu, Cheng Zhi Huang, 2023-11-17 Focusing on green pathways this book covers the synthesis of carbon dots and their applications in the fields of bioanalytical catalytic biomedical and environmental sciences

Green Gasoline

Mohammad Aslam, Shrikant Maktedar, Anil Kumar Sarma, 2023-10-06 Transportation currently takes up around a third of overall energy usage of which the majority is petroleum based gasoline Petroleum is both a finite resource and a big contributor to the carbon emissions that are causing climate change To continue to benefit from transportation whilst mitigating climate change it is essential to find alternatives to petroleum based gasoline Although a lot of recent developments have focused on electrifying transport the infrastructure for large scale uptake of electric vehicles is still lacking and it may be less practical in some parts of the world than others Biofuels therefore still have a role to play in improving the sustainability of our transportation systems The term green gasoline refers to biofuels intended to be direct drop in replacements for petroleum based gasoline Such products allow vehicles to run on biofuel without any engine modifications and being made from biomass they are both renewable and have a better carbon emission profile than petroleum based gasoline Green Gasoline covers a range of new technologies being used to produce these biofuels and compares them to petroleum based fuels in terms of sustainability It will be an interesting read for those working in fuel chemistry as well as green chemists and anyone with an interest in transport sustainability

Ball Milling Towards Green Synthesis Achim Stolle, Brindaban Ranu, 2014-11-26 Ball milling has emerged as a powerful tool over the past few years for effecting chemical reactions by mechanical energy Allowing a variety of reactions to occur at ambient temperatures and in solvent free conditions ball milling presents a greener route for many chemical processes Compared to the use of microwave and ultrasound as energy sources for chemical reactions ball milling is not as familiar to chemists and yet it holds great potential This book will introduce practicing chemists to the technique and will highlight its importance for green transformations Current applications of ball milling will be covered in detail as well as its origin recent developments and future scope challenges and prospects Chemical transformations covered include carbon carbon and carbon heteroatom bond formation oxidation by solid oxidants asymmetric organo catalytic reactions dehydrogenative coupling peptide syntheses and polymeric material syntheses The book will provide a valuable guide for organic inorganic and organometallic chemists material scientists polymer scientists reaction engineers and postgraduate students in chemistry

Green Materials from Plant Oils Zengshe Liu, George Kraus, 2015 This book covers the synthesis of useful products and intermediates from plant

oils which is a critically important area given current challenge of depleting fossil fuel reserves **Green Chemistry for Surface Coatings, Inks and Adhesives** Rainer Hoefer, Avtar Matharu, Zhanrong Zhang, 2019-06-06 Many modern surface coatings and adhesives are derived from fossil feedstocks With fossil fuels becoming more polluting and expensive to extract as supplies dwindle industry is turning increasingly to nature mimicking natural solutions using renewable raw materials and employing new technologies Highlighting sustainable technologies and applications of renewable raw materials within the framework of green and sustainable chemistry circular economy and resource efficiency this book provides a cradle to cradle perspective From potential feedstocks to recycling reuse opportunities and the de manufacture of adhesives and solvents green chemistry principles are applied to all aspects of surface coating printing adhesive and sealant manufacture This book is ideal for students researchers and industrialists working in green sustainable chemistry industrial coatings adhesives inks and printing technologies **Green Fire Retardants for Polymeric Materials** Pingan Song, Yan Zhang, Xin

Wen, 2023-12-06 Many of the polymers we use every day are highly flammable Historically a large number of home fires were caused by ignited polymeric materials until legislation was introduced requiring fire retardants to be added to these materials Fire retardants increase the time it takes for materials to ignite providing valuable time to prevent a fire or escape However it has become apparent that many of the traditional treatments used as fire retardants are harmful to human health and highly persistent in the environment With evermore polymeric materials in our homes and lives it is still highly valuable to be able to make fire retardants but consideration must be given to their environmental impact and sustainability Green Fire Retardants for Polymeric Materials looks at both the choice of different materials and treatments for improving the fire retardancy of polymeric materials as well as green approaches to synthesising these fire retardants It is a timely resource both for green chemists interested in real world applications for their work and polymer scientists keen to increase the sustainability of their products and processes **Flow Chemistry** Santiago V Luis, Eduardo Garcia-Verdugo, 2019-10-18 In

flow chemistry reactions are performed in a reactor with the reactants pumped through it It has the benefit of being easily scaled up and it is straightforward to integrate synthesis workup and analysis into one system This volume provides an update on recent advances in the field of flow chemistry with special emphasis on new integrated approaches for green and efficient chemistry This book is a valuable resource for researchers in green chemistry chemical engineers and Industrial chemists working in the pharmaceutical and fine chemicals industries *Green Synthetic Processes and Procedures*

Roberto Ballini, 2019-06-28 The principles of Green Chemistry aim to improve the sustainability of chemical processes and reduce the generation of hazardous substances There has been great growth in the field over the past few years and the number of research groups working in this area is still increasing Now one of the biggest challenges is to embed the Green Chemistry ideals of safety and sustainability as standard both in industry and academia In order to do this it is important to create resources that detail different applications and approaches Green Synthetic Processes and Procedures brings together

expert contributors from across a number of areas of green synthesis to cover a diverse array of subjects Providing a thorough overview of the current green synthetic toolbox from biocatalysis to sonochemistry this book is a useful resource for any chemist wishing to design cleaner and safer processes

Chemical Biotechnology and Bioengineering Xuhong Qian,Zhenjiang Zhao,Yufang Xu,Jian-He Xu,Y.-H. Zhang,Jingyan Zhang,Yang-Chun Yong,Fengxian Hu,2015-05-22 In biotechnology and bioengineering small molecules can be used to increase the efficiency reduce the cost and damage to the environment of certain bioprocesses This book introduces readers to the important field of chemically promoted biotechnology and bioengineering and presents the theory behind the biotechnology of enzymatic reactions and how they can be chemically enhanced The book covers chemical modulators for enzymatic reactions chemically promoted biotechnology in plant cell cultures chemically promoted biotechnology for plant protection and future prospects for the field Knowledge gained allows both chemists to make use of biotechnology to solve chemical problems in an environmentally friendly way and biologists to make use of chemistry to increase biotechnological efficiency This book is useful for scientists in a broad range of disciplines including agricultural chemistry pesticide science medicinal chemistry biochemistry bio organic chemistry cell and molecular biology Students and researchers in both academia and industry will find it a useful handbook

Microwave-Assisted Polymerization Anuradha Mishra,Tanvi Vats,James H. Clark,2016 This book will be a valuable resource for polymer scientists and engineers who want to develop sustainable processes using microwave assisted techniques

Ionic Liquids in the Biorefinery Concept Rafal Bogel-Lukasik,2016 Summarising advance in the use of ionic liquids in biomass processing this book is an important reference for researchers and practising chemists

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web obtain the necessary forms start by visiting the michigan courts website or the local county clerk s office to obtain the

forms required for filing a legal separation these forms typically include a petition for legal separation a summons and possibly additional documents such as financial affidavits

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