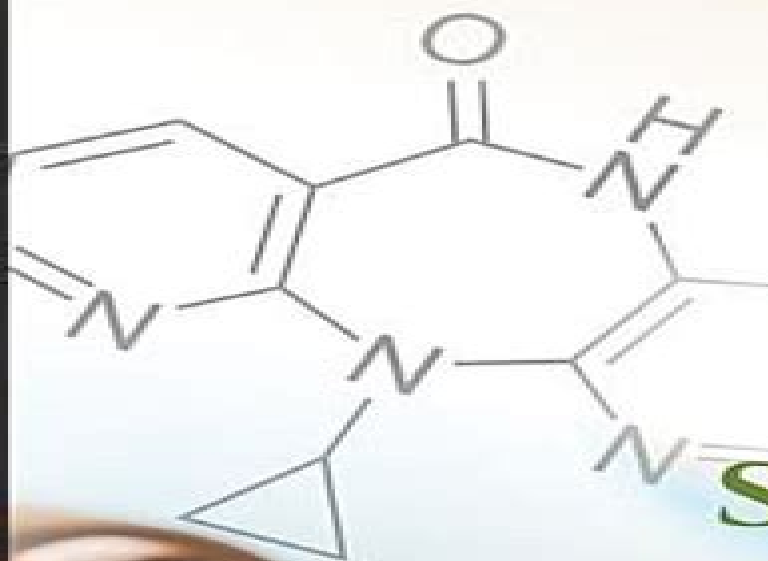


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GREEN TECHNIQUES FOR ORGANIC SYNTHESIS AND MEDICINAL CHEMISTRY

2ND EDITION

WILEY

Green Techniques For Organic Synthesis And Medicinal Chemistry

Wei Zhang, Berkeley W. Cui



Green Techniques For Organic Synthesis And Medicinal Chemistry:

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Green Techniques for Organic Synthesis and Medicinal Chemistry Wei Zhang, Berkeley W. Cue, 2012-07-23 Green chemistry is a new way of looking at organic synthesis and the design of drug molecules offering important environmental and economic advantages over traditional synthetic processes Pharmaceutical companies are increasingly turning to the principles of green chemistry in an effort to reduce waste reduce costs and develop environmentally benign processes *Green Techniques for Organic Synthesis and Medicinal Chemistry* presents an overview of the established and emerging techniques in green organic chemistry highlighting their applications in medicinal chemistry The book is divided into four parts Introduction Introduces the reader to the toxicology of organic chemicals their environmental impact and the concept of green chemistry Green Catalysis Covers a variety of green catalytic techniques including organocatalysis supported catalysis biocatalysis fluororous catalysis and catalytic direct C H bond activation reactions Green Synthetic Techniques Presents a series of new techniques assessing the green chemistry aspects and limitations i e cost equipment expertise Techniques include reactions in alternative solvents atom economic multicomponent reactions microwave and ultrasonic reactions solid supported synthesis fluororous and ionic liquid based recycling techniques

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Polymer Supported Organic Catalysts Narendra Chauhan, Sapana Jadoun, 2024-07-26 Polymer supported organic catalysts are largely insoluble in most reaction solvents which allows for easy recovery and recycling of the catalysts They are generally stable readily available and environmental friendly so they have attracted the interest of many synthetic chemists in the industrial and academic fields In this book different types of polymer supported catalysts based on peptides polystyrene polyethers poly acrylic acid poly ethylene imine poly 2 oxazoline poly isobutylene poly norbornene etc as well as metals are included with their synthetic organic synthesis applications It is believed that this work will be of interest to organic chemists material scientists chemical engineers polymer scientists and technologists

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Chirality in Supramolecular Assemblies F. Richard Keene, 2017-01-03 Supramolecular chemistry deals with the organisation of molecules into defined assemblies using non covalent interactions including weaker and reversible interactions such as hydrogen bonds and metal ligand interactions The aspect of stereochemistry within such chemical architectures and in particular chirality is of special interest as it impacts on considerations of molecular recognition the development of functional materials the vexed question of homochirality nanoscale effects of interactions at interfaces biocatalysis and enzymatic catalysis and applications in organic synthesis Chirality in Supramolecular Assemblies addresses many of these aspects presenting a broad overview of this important and rapidly developing interdisciplinary field Topics covered include Origins of molecular and topological chirality Homochirogenesis Chirality in crystallinity Host guest behavior Chiral influences in functional materials Chirality in network solids and coordination solids Aspects of chirality at interfaces Chirality in organic assemblies Chirality related to biocatalysis and enzymes in organic synthesis This book is a valuable reference for researchers in the molecular sciences materials science and biological science working with chiral supramolecular systems It provides summaries and special insights by acknowledged international experts in the various fields

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through the development of products and processes that are environmentally benign while remaining economically viable Inorganic chemistry plays a critical role in this endeavor in areas such as resource extraction and isolation renewable energy catalytic processes waste minimization and avoidance and renewable industrial feedstocks Sustainable Inorganic Chemistry presents a comprehensive overview of the many new developments taking place in this rapidly expanding field in articles that discuss fundamental concepts alongside cutting edge developments and applications The volume includes educational reviews from leading scientists on a broad range of topics including inorganic resources sustainable synthetic methods alternative reaction conditions heterogeneous catalysis photocatalysis sustainable nanomaterials renewable and clean fuels water treatment and remediation waste valorization and life cycle sustainability assessment The content from this book will be added online to the Encyclopedia of Inorganic and Bioinorganic Chemistry

Multicomponent Reactions in Organic Synthesis Jieping Zhu, Qian Wang, Meixiang Wang, 2015-02-09 Comprehensive and up to date this book focuses on the latest advances in the field such as newly developed techniques more environmentally benign processes broadened scopes and completely novel MCRs In addition to carbene promoted MCRs and frequently applied metal catalyzed MCRs it also covers recently developed catalytic enantioselective variants as well as MCR in drug discovery and for the synthesis of heterocyclic molecules and macrocycles Edited by the leading experts and with a list of authors reading like a who's who in multicomponent reaction chemistry this is definitely a must have for every synthetic organic chemist as well as medicinal chemists working in academia and pharmaceutical companies

Metal-Organic Frameworks in Analytical Chemistry Masoud Mirzaei, Amirhassan Amiri, 2023-08-02 This book covers multipurpose usage of MOFs in sample preparation integration and detection stages of analytical chemistry for researchers scientists engineers who are interested in developing new materials or new applications

Encyclopedia of Ionic Liquids Suojia Zhang, 2023-02-03 The encyclopedia consists 13 subareas as follows 1 Synthesis and Characterisation of Ionic Liquids Section Editors Prof Fu Wei Li and Prof Zhen Li 2 Physicochemical Properties of Ionic Liquids Section Editors Asso Prof Qing Zhou Prof Xingmei Lu and Prof Xiaoyan Ji 3 Computational and Theoretical Modeling of Ionic Liquids Section Editors Prof Guang Feng and Prof Peter T Cummings 4 Toxicology and Biodegradation of Ionic Liquids Section Editors Prof Chunxi Li and Prof Stefan Stolte 5 Ionic Liquids in Electrochemistry Section Editors Prof Yingying Lu Prof Houlong Zhuang and Prof Chuan Zhao 6 Ionic Liquids in Organic Reaction Section Editors Prof Liang Nian He and Prof Bhalchandra M Bhanage 7 Ionic Liquids in Separation Section Editors Prof Huabin Xing 8 Ionic Liquids in Biomass and Biomolecules Section Editors Prof Toshiyuki Itoh and Prof Jian Sun 9 Ionic Liquids in Materials Science Section Editors Prof Sheng Dai and Prof Tao Wang 10 Ionic Liquids in Polymer Science Section Editors Asso Prof Jinming Zhang and Prof Jun Zhang 11 Ionic Liquids in Environmental Science Section Editors Prof Tiancheng Mu Prof Arunprakash T Karunanithi and Prof Yingxiong Wang 12 Ionic Liquids in Green Chemistry Section Editors Prof Buxing Han and Prof Peter Licence 13 Emerging Applications of Ionic Liquids Pharmacology Food Science Agriculture

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Bucio, 2024-08-30 This book explores the most pertinent aspects and advancements in sonochemistry dedicating nine chapters to fundamentals synthesis methods and applications Covering ultrasound as the primary energy source the initial chapters cover the interaction of ultrasound waves with matter and its diverse applications across various fields The text further delves into the synthesis of nanomaterials and nanocomposites under varying reaction conditions Finally the book examines specific topics including the application of sonochemistry in wastewater treatment catalysts sensors meat processing and food packaging These insights indicate that sonochemistry is an emerging science with promising applications extending beyond the confines of the laboratory **Industrial Decarbonization** Qingxu (Bill) Jin, Xue (Ida)

Chen, Fan Shi, Dushyant Shekhawat, 2025-10-27 Industrial Decarbonization Materials Methods and Developments offers a timely and in depth exploration of the technologies and strategies reshaping high emission industries in the global push toward carbon neutrality As sectors such as chemicals steel cement concrete asphalt and construction face mounting pressure to reduce their environmental impact this book provides a comprehensive multidisciplinary perspective on the innovations driving industrial transformation Drawing from cutting edge research and real world implementation across academia national labs and industry the book highlights both the challenges and scalable solutions in industrial decarbonization Key features include Innovative Technologies Investigates emerging thermo electro and photocatalytic processes microwave assisted techniques and energy efficient manufacturing systems aimed at reducing industrial emissions Analytical Frameworks Introduces life cycle assessment LCA and techno economic analysis TEA tools to assess the viability and environmental impact of new decarbonization approaches Carbon Management Explores advanced materials and integrated system designs for carbon capture utilization and storage CCUS including novel separation and process integration technologies Sector Specific Solutions Showcases targeted innovations in cement concrete steel and chemical production alongside cross cutting strategies such as circular economy models and thermal energy storage Digital Tools Discusses the role of computational modeling and data driven methods in optimizing decarbonization pathways With a rich

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