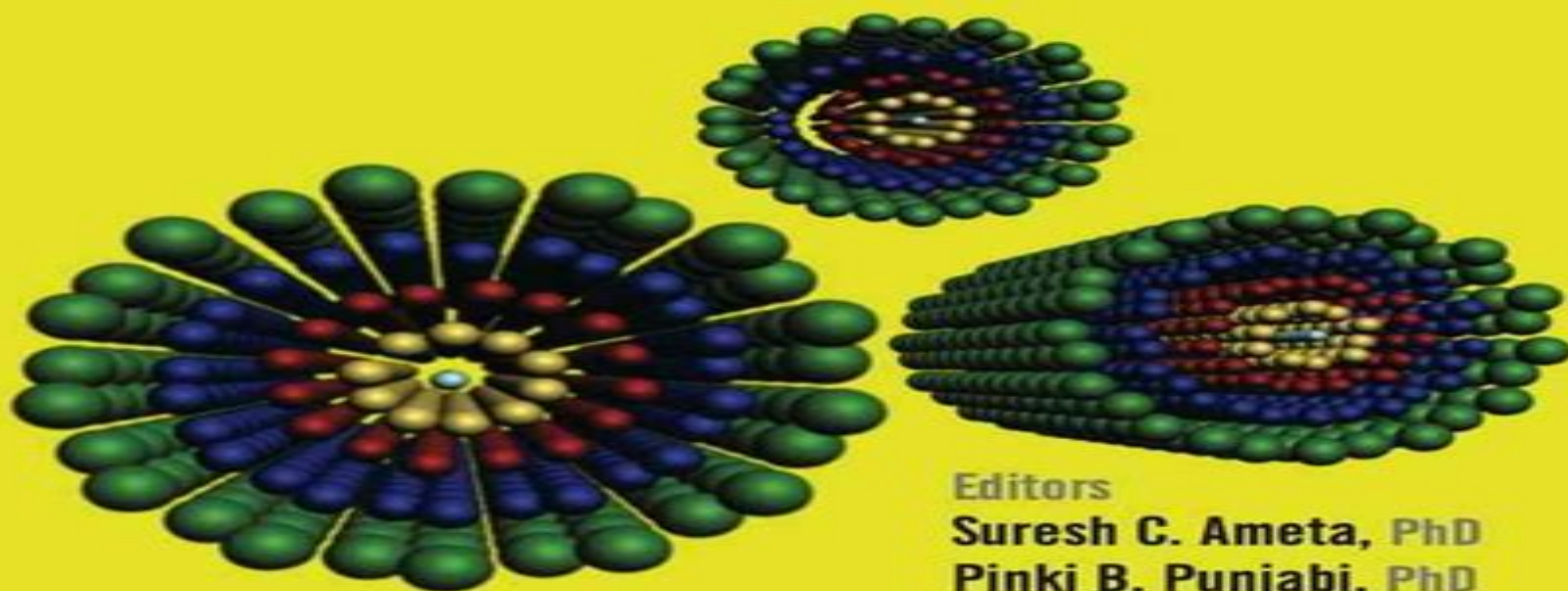


Microwave-Assisted Organic Synthesis

A Green Chemical Approach



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Microwave Assisted Organic Synthesis A Green Chemical Approach:

Microwave-Assisted Organic Synthesis Suresh C. Ameta, Pinki B. Punjabi, Rakshit Ameta, Chetna Ameta, 2014-12-22

The large scale production of chemicals to meet various societal needs has created environmental pollution including pollution from byproducts and improper disposal of waste. With the world facing adverse consequences due to this pollution, green chemistry is increasingly being viewed as a means to address this concern. Since most organic syntheses Microwave Assisted Organic Synthesis Jason Tierney, Pelle Lidström, 2009-02-12. The first reports on the application of microwaves in organic synthesis date back to 1986, but it was not until the recent introduction of specifically designed and constructed equipment which countered the safety and reproducibility concerns that synthetic application of microwaves has become established as a laboratory technique. Microwave assisted synthesis is now being adopted in many industrial and academic laboratories to take advantage of the novel chemistry that can be carried out using a variety of organic reaction types. This book demonstrates the underlying principles of microwave dielectric heating and, by reference to a range of organic reaction types, its effective use in synthetic organic chemistry. To illustrate the impact microwave assisted organic synthesis can have on chemical research, case studies drawn mainly from the pharmaceutical industry are presented. **Contemporary**

Chemical Approaches for Green and Sustainable Drugs Marianna Torok, 2022-08-26. **Contemporary Chemical Approaches for Green and Sustainable Drugs** provides readers with the knowledge they need to integrate sustainable approaches into their work. Sections cover different aspects of green and sustainable drug development from design to disposal, including computer aided drug design, green resourcing of drugs and drug candidates, an overview of the health concerns of pharmaceutical pollution, and a survey of potential chemical methods for its reduction. Drawing together the knowledge of a global team of experts, this book provides an inclusive overview of the chemical tools and approaches available for minimizing the negative environmental impact of current and newly developed drugs. This will be a useful guide for all academic and industrial researchers across green and sustainable chemistry, medicinal chemistry, environmental chemistry, and pharmaceutical science. Provides an integrative overview of the environmental risks of drugs and drug by products to support chemists in preemptively addressing these issues. Highlights the advantages of computer aided drug design, green and sustainable sourcing, and novel methods for the production of safer, more effective drugs. Presents individual chapters written by renowned experts with diverse backgrounds. Reflects research in practice through selected case studies and extensive state of the art reference sections to serve as a starting point in the design of any specialized environmentally conscious medicinal chemistry project. **Green Synthetic Approaches for Biologically Relevant Heterocycles** Goutam

Brahmachari, 2021-03-20. **Green Synthetic Approaches for Biologically Relevant Heterocycles** Second Edition Volume One. **Advanced Synthetic Techniques** reviews this significant group of organic compounds within the context of sustainable methods and processes, expanding on the first edition with fully updated coverage and a whole range of new chapters. Volume

One explores advanced synthetic techniques with each chapter presenting in depth coverage of various green protocols for the synthesis of a wide variety of bioactive heterocycles that are classified on the basis of ring size and or the presence of heteroatoms Techniques covered range from high pressure cycloaddition reactions and microwave irradiation to sustainable one pot domino reactions This updated edition is an essential resource on sustainable approaches for academic researchers R D professionals and students working across medicinal organic natural product and green chemistry Provides fully updated coverage of the field of greener heterocycle synthesis Includes new chapters on varied multicomponent reactions alongside both traditional and novel approaches Presents information in an accessible style with an emphasis on sustainability

Microwave Chemical and Materials Processing Satoshi Horikoshi, José M. Catalá-Civera, Robert F. Schiffmann, Jun Fukushima, Tomohiko Mitani, Nick Serpone, 2024-10-24 This book adds remarkable advances in microwave chemistry methods equipment and practical examples since the first edition was published in 2018 Moreover practical examples of the use of microwave energy have been upgraded It also includes how to easily predict microwave heating using material constants In addition coupling analysis simulation with electromagnetic fields and heat transfer which greatly support researchers experiments is covered The principal aim of this book hasn t changed to introduce chemists through a tutorial approach to the use of microwaves by examining several experiments of microwave chemistry and materials processing It subsequently enables chemists to fashion their own experiments in microwave chemistry or materials processing This book helps chemists who take an interest in the use of microwave radiation to overcome difficulties to understand the nature of electromagnetism microwave engineering and thermodynamics

Green Chemical Synthesis with Microwaves and Ultrasound Dakeshwar Kumar Verma, Chandrabhan Verma, Paz Otero Fuertes, 2024-03-25 Green Chemical Synthesis with Microwaves and Ultrasound A guide to the efficient and sustainable synthesis of organic compounds Chemical processes and the synthesis of compounds are essential aspects of numerous industries and particularly central to the creation of drug like structures Their often significant environmental biproducts however have driven substantial innovations in the areas of green and organic synthesis which have the potential to drive efficient solvent free synthesis and create more sustainable chemical processes The use of microwaves and ultrasounds in chemical synthesis has proven an especially fruitful area of research with the potential to produce a more sustainable industrial future Green Chemical Synthesis with Microwaves and Ultrasound provides a comprehensive overview of recent advances in microwave and ultrasound driven synthesis and their cutting edge applications Green Chemical Synthesis with Microwaves and Ultrasound readers will also find Introduction to the key equipment and tools of green chemical synthesis Detailed discussion of methods including ultrasound irradiation metal catalyzed reactions enzymatic reactions and many more An authorial team with immense experience in environmentally friendly organic chemical production Green Chemical Synthesis with Microwaves and Ultrasound is ideal for chemists organic chemists chemical engineers biochemists and any researchers or industry professionals working on the synthesis of

chemicals and or organic compounds **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

Microwave-assisted Polymer Synthesis Richard Hoogenboom, Ulrich S. Schubert, Frank Wiesbrock, 2016-09-02 The series Advances in Polymer Science presents critical reviews of the present and future trends in polymer and biopolymer science It covers all areas of research in polymer and biopolymer science including chemistry physical chemistry physics material science The thematic volumes are addressed to scientists whether at universities or in industry who wish to keep abreast of the important advances in the covered topics Advances in Polymer Science enjoys a longstanding tradition and good reputation in its community Each volume is dedicated to a current topic and each review critically surveys one aspect of that topic to place it within the context of the volume The volumes typically summarize the significant developments of the last 5 to 10 years and discuss them critically presenting selected examples explaining and illustrating the important principles and bringing together many important references of primary literature On that basis future research directions in the area can be discussed Advances in Polymer Science volumes thus are important references for every polymer scientist as well as for other scientists interested in polymer science as an introduction to a neighboring field or as a compilation of detailed information for the specialist Review articles for the individual volumes are invited by the volume editors Single contributions can be specially commissioned Readership Polymer scientists or scientists in related fields interested in polymer and biopolymer science at universities or in industry graduate students

Green Approaches in Medicinal Chemistry for Sustainable Drug Design Bimal Banik, 2024-05-31 Extensive experimentation and high failure rates are a well recognized downside to the drug discovery process with the resultant high levels of inefficiency and waste producing a negative environmental impact Sustainable and Green Approaches in Medicinal Chemistry 2e reveals how medicinal chemistry can play a direct role in addressing this issue After providing essential context to the growth of green chemistry in relation to drug discovery the book goes on to identify a broad range of practical techniques and useful insights revealing how medicinal chemistry techniques can be used to improve efficiency mitigate failure and increase the environmental benignity of the entire drug discovery process Drawing on the knowledge of a global team of experts Sustainable and Green Approaches in Medicinal Chemistry Second Edition encourages the growth of green medicinal chemistry and supports

medicinal chemists drug discovery researchers pharmacologists and all those in related fields across both academia and industry in integrating these approaches into their own work This second volume of the second edition includes the development of nanoparticles and nanocomposites as well as the application of ultrasound and microwave induced methods studies solventless synthesis defines the role of steroids studies reactions in aqueous solution identifies enzyme mediated reactions investigates ionic liquids and deep eutectic solvents explores natural products investigates solid supports realizes the effects of salts focuses on combinatorial chemistry develops one pot methods analyzes multi component reactions investigates dipole moment values and examines computer assisted methods Highlights the need for adoption of sustainable and green chemistry pathways in drug development Reveals risk factors associated with the drug development process and the ways sustainable approaches can help address these Identifies novel and cost effective green medicinal chemistry approaches for improved efficiency and sustainability

Nontraditional Activation Methods in Green and Sustainable Applications Bela Torok, Christian Schaefer, 2021-02-25 Nontraditional Activation Methods in Green and Sustainable Applications Microwaves Ultrasounds Photo Electro and Mechanochemistry and High Hydrostatic Pressure provides a broad overview of non traditional activation methods to help readers identify and use appropriate approaches in reducing the environmental impact of their work Sections discuss the fundamental principles of each method and provide examples of their practical use illustrating their usefulness Given the importance of expanding laboratory based technologies to the industrial level chapters that cover both existing and potential industrial and environmental applications are also included Highlighting the usefulness and adaptability of these methods for a range of practical applications this book is a practical guide for both those involved with the design and application of synthetic methodologies and those interested in the implementation and impact of green chemistry principles in practice from synthetic and medicinal chemists to food developers and environmental policy planners Discusses and critically assesses the advantages of non traditional activation methods in green and sustainable chemistry applications Features individual chapters written by renowned experts in the field Contains extensive state of the art reference sections providing critically filtered information to readers

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