

Medicinal Chemistry By Yogeshwari

Medicinal Chemistry Photochemistry and Photophysics of Coordination Compounds Graphene-based Carbocatalysts: Synthesis, Properties and Applications Nanocatalysis Pharmaceutical Chemistry (English Edition) Medicinal Chemistry-I Quantum Dots Medicinal Chemistry-II MEDICINAL CHEMISTRY- II Non-Conventional Synthesis D. Sriram Rakshit Ameta Pinki Bala Punjabi Keshav Lalit Ameta Dr. Desh Deepak Pandey Prof. (Dr.) R. D. Gupta Rakshit Ameta Dr. Selvakumar. S Ms. Risha Rajkumar Wale György Keglevich

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the second edition of medicinal chemistry is based on the core module of pharmacy syllabi of various technical universities and targets undergraduate b pharma students across india the current edition has been designed by authors based on the opinion of the experts to include the latest developments in the field of medicinal chemistry detailed synthesis mechanism of the drugs and their mode of action inside the body

photochemistry and photophysics of coordination compounds fundamentals and applications provides a systematic overview of the photochemical and photophysical properties of coordination compounds with different metal cores beginning with a clear introduction to the fundamentals of both photochemistry and coordination chemistry the book goes on to outline the photochemical and photophysical properties of a large range of coordination compounds clustering metal cores together in chapters according to their period table group ranging across transition metals

lanthanides and actinides in addition to outlining their properties each chapter discusses the synthesis current applications and future potential of coordination compounds in each group drawing on the experience of a global team of experts this book is an authoritative guide for all those interested in understanding and harnessing the photochemical properties and potential applications of coordination complexes for their own work introduces the fundamentals of both photochemistry and coordination compounds supports learning through carefully structured content with chapters uniquely arranged by period table group bridges the knowledge gap between theory and practice by presenting application examples in each chapter

this book informs readers about recent advances in graphene carbocatalysis encapsulating the current developments in the syntheses properties characterizations functionalization and catalytic applications of graphene its derivatives and composites it serves as a comprehensive primary reference book for chemistry and engineering students who are required to learn about graphene chemistry in detail it also serves as an introductory reference for industry professionals and researchers who are interested in graphene research as well as its emerging applications in catalysis and beyond volume 1 provides an introduction to catalysis and the chemistry of graphene this is followed by chapters that cover the chemistry of graphene compounds next it covers the functionalization of graphene into catalytic materials and its role in the synthesis of nanocomposites finally the book delves into the complex aspects of graphene carbocatalysis recent advances in graphene supported palladium catalysts for coupling reactions applications of graphene based catalysts in multicomponent domino reactions oxidation and reduction reactions and recent trends in biocatalytic properties of graphene based composites are all discussed in detail

the field of nanocatalysis is undergoing rapid development nanocatalysis can help in designing catalysts with excellent activity greater selectivity and high stability their properties can easily be tuned by tailoring the size shape and morphology of the particular nanomaterial exhibiting both homogeneous and heterogeneous catalytic properties nanocatalysts allow for rapid and selective chemical transformations with the benefits of excellent product yield and ease of catalyst separation and recovery nanocatalysis synthesis of bioactive heterocycles reviews the catalytic performance and the synthesis and characterization of nanocatalysts examining the current state of the art and pointing the way towards new

avenues of research specially synthesis of bioactive heterocycles top researchers summarize synthetic methodologies for the synthesis of bioactive heterocycles using a nanocatalytic framework the catalytic performance and the synthesis and characterization of nanocatalysts are reviewed state of the art methods and new and emerging applications of nanocatalysts in the synthesis of biologically active heterocycles are detailed additional features include focuses on designing and synthesizing nanocatalysts specifically for the synthesis of different bioactive heterocycles demonstrates how nanocatalysis can produce catalysts with excellent activity greater selectivity and high stability explores tuning catalysts properties by tailoring the size shape and morphology of a nanomaterial offers the reader insights into the field of nanoscience via nanocatalysis nanocatalysis synthesis of bioactive heterocycles is a must read for researchers in organic chemistry medicinal chemistry and biochemistry

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quantum dots fundamentals synthesis and applications compiles key information along with practical guidance on quantum dot synthesis and

applications beginning with an introduction part one highlights such foundational knowledge as growth mechanisms shape and composition electrochemical properties and production scale up for quantum dots part two goes on to provide practical guides to key chemical physical and biological methods for the synthesis of quantum dots with part three reviewing the application of quantum dots and a range of important use cases including photocatalysis energy cells and medical imaging drawing on the knowledge of its expert authors this comprehensive book provides practical guidance for all those who already study develop or use quantum dots in their work presents the foundational information needed to effectively understand and manipulate quantum dot properties consolidates key methods of quantum dot synthesis in a single volume reviews both current and future practical applications of quantum dots across a range of important fields

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welcome to the second volume of medicinal chemistry theory a comprehensive exploration of the principles and practices that underpin the fascinating field of medicinal chemistry this volume medicinal chemistry theory ii builds upon the foundation laid in the first volume and delves deeper into the intricate world of drug discovery and design when chemistry biology and pharmacology come together you get medicinal chemistry a vibrant and interdisciplinary field its main purpose is to create new medicines that can be used to treat illnesses and boost people s health in this volume we continue our investigation of the molecular interactions that determine the pharmacological activity of substances and its application in drug creation the discovery of potentially life saving medications has been greatly aided by the insights gained from medicinal chemistry studies the work of medicinal chemists is essential in the development of new therapeutics from small molecule inhibitors to biologics and gene therapies structure of the book medicinal chemistry theory ii comprises several chapters each dedicated to a specific aspect of the drug discovery process we begin with a recap of key concepts from the first volume providing a seamless transition for readers who may be new to this book series however each chapter can also be read independently for those seeking indepth knowledge on particular topics the chapters in this volume cover a wide

range of subjects including 1 drug metabolism and pharmacokinetics understanding how drugs are metabolized and how their concentration in the body changes over time 2 structure activity relationship studies exploring the relationship between the chemical structure of compounds and their biological activity 3 drug design strategies examining various approaches employed by medicinal chemists to design novel drugs with enhanced potency and selectivity 4 enzyme inhibitors investigating the design and mechanisms of enzyme inhibitors as potential therapeutics

non conventional synthetic methods may provide new and green methods for the preparation of bioactive heterocycles these methods such as microwave and ultrasound assisted synthesis biocatalysis photochemistry and electrosynthesis use less energy and may produce less waste to get the desired products when compared to traditional methods this book explores the use of these methods when synthesizing various biologically relevant heterocyclic scaffolds the series green bioactive heterocycles heterocycles are a widely utilized group of molecules as they often contain bioactivity that is useful in drug development agriculture and other applications however their synthesis remains challenging with difficult to control functional groups with a greater focus on sustainable synthesis practices there is a need to develop greener synthetic methods for the synthesis of structurally diverse bioactive heterocyclic scaffolds this series aims to do so by collecting developments into common themes

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