

TOPICS IN CURRENT CHEMISTRY

249

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Templates in Chemistry II

 Springer

Templates In Chemistry Ii Topics In Current Chemistry

Dimas G. de Oteyza, Celia Rogero



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Templates in Chemistry I Christoph A. Schalley, Fritz Vögtle, Karl Heinz Dötz, 2005-01-13 With contributions by numerous experts

Analytical Methods in Supramolecular Chemistry Christoph A. Schalley, 2007-02-27 An overview of the techniques used to examine supramolecular aggregates from a methodological point of view Edited by a rising star in the community and an experienced author this is a definitive survey of useful modern analytical methods for understanding supramolecular chemistry from NMR to single molecule spectroscopy from electron microscopy to extraction methods A definitive study of this field touching many interdisciplinary areas such as molecular devices biology bioorganic chemistry material science and nanotechnology

Advanced Polymeric Materials Sabu Thomas, Nandakumar Kalarikkal, Maciej Jaroszewski, Josmine P. Jose, 2016-01-05 The aim of this new compendium is to provide a solid understanding of the recent developments in advanced polymeric materials from macro to nano length scales Composites are becoming more important because they can help to improve our quality of life such as being put into service in flight vehicles automobiles boats pipelines buildings roads

On-Surface Synthesis II Dimas G. de Oteyza, Celia Rogero, 2018-03-19 On surface synthesis is appearing as an extremely promising strategy to create organic nanoarchitectures with atomic precision Molecular building blocks holding adequate functional groups are dosed onto surfaces that support or even drive their covalent linkage The surface confinement and the frequent lack of solvents most commonly being performed under vacuum conditions create a completely new scenario fully complementary to conventional chemistry In a pedagogical way and based on the most recent developments this volume presents our current understanding in the field addressing fundamental reaction mechanisms synthetic strategies to influence the reactions according to our needs as well as the ultimate growth and characterization of functional materials Verging on chemistry physics and materials science the book is aimed at students and researchers interested in nanochemistry surface science supramolecular materials and molecular devices Chapters Mechanistic insights into surface supported chemical reactions Reactivity on and of Graphene Layers Scanning Probe Microscopy Reviels and Bottom up fabrication of atomically precise graphene nanoribbons of this book are available open access under a CC BY 4.0 license at link.springer.com

Low Molecular Mass Gelators Frederic Fages, 2005-08-02 With contributions by numerous experts

Advanced Molecularly Imprinting Materials Ashutosh Tiwari, Lokman Uzun, 2016-11-02 Molecularly imprinted polymers MIPs are an important functional material because of their potential implications in diverse research fields The materials have been developed for a range of uses including separation environmental biomedical and sensor applications In this book the chapters are clustered into two main sections Strategies to be employed when using the affinity materials and rational design of MIPs for advanced applications In the first part the book covers the recent advances in producing MIPs for sample design preparation and characterizations In the second part

the chapters demonstrate the importance and novelty of creation of recognition imprinted on the materials and surfaces for a range of microbial detection sensors in the biomedical environmental and food safety fields as well as sensing human odor and virus monitoring systems

Part 1 Strategies of affinity materials

Molecularly imprinted polymers MIP nanomaterials Micro and nanotraps for solid phase extraction Carbonaceous affinity nanomaterials Fluorescent MIPs MIP based fiber optic sensors

Part 2 Rational design of MIP for advanced applications

MIP based biomedical and environmental sensors Affinity adsorbents for environmental biotechnology MIP in food safety MIP based virus monitoring MIP based drug delivery and controlled release Biorecognition imprints on the biosensor surfaces MIP based sensing of volatile organic compounds in human body odour MIP based microcantilever sensor system

Natural Product Synthesis II U. Beifuss, 2005-02-11 T Heckrodt and J Mulzer Marine Natural Products from Pseudopterogorgia Elisabethae Structures Biosynthesis Pharmacology and Total Synthesis M Kalesse Recent Advances in Vinylogous Aldol Reactions and their Applications in Natural Product Synthesis U Beifuss and M Tietze Methanophenazine and Other Biologically Active Phenazines H J Knoelker Occurrence Biological Activity and Convergent Organometallic Synthesis of Carbazole Alkaloids U Nubbemeyer Recent Advances in Charge Accelerated Aza Claisen Rearrangements P Metz Synthetic Studies on the Pamamycin Macrodilides

Applications of Polymers in Drug Delivery Ambikanandan Misra, 2014-01-29 Use of polymers has become indispensable in the field of drug delivery Polymers play a crucial role in modulating drug delivery to exploit maximum therapeutic benefits and have been fundamental in the successful development of several novel drug delivery systems that are now available This book provides details of the applications of polymeric drug delivery systems that will be of interest to researchers in industries and academia It describes the development of polymeric systems ranging from the conventional dosage forms up to the most recent smart systems The regulatory and intellectual property aspects as well as the clinical applicability of polymeric drug delivery systems are also discussed Each different drug delivery route is discussed in a separate chapter of the book All major routes of drug delivery have been covered to provide the reader with a panoramic as well as an in depth view of the developments in polymer based drug delivery systems Appendices are included which incorporate useful pharmaceutical properties of the polymers and important polymeric applications for various drug delivery routes

Nanoelectronics and Information Technology Rainer Waser, 2012-05-29 This outstanding textbook provides an introduction to electronic materials and device concepts for the major areas of current and future information technology On about 1 000 pages it collects the fundamental concepts and key technologies related to advanced electronic materials and devices The obvious strength of the book is its encyclopedic character providing adequate background material instead of just reviewing current trends It focuses on the underlying principles which are illustrated by contemporary examples The third edition now holds 47 chapters grouped into eight sections The first two sections are devoted to principles materials processing and characterization methods Following sections hold contributions to relevant materials and various devices

computational concepts storage systems data transmission imaging systems and displays Each subject area is opened by a tutorial introduction written by the editor and giving a rich list of references The following chapters provide a concise yet in depth description in a given topic Primarily aimed at graduate students of physics electrical engineering and information technology as well as material science this book is equally of interest to professionals looking for a broader overview Experts might appreciate the book for having quick access to principles as well as a source for getting insight into related fields

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