Ebook free Journal of carbohydrate chemistry .pdf

Essentials of Carbohydrate Chemistry Carbohydrate Chemistry Essentials of Carbohydrate Chemistry and Biochemistry Carbohydrate Chemistry and Biochemistry Preparative Carbohydrate Chemistry Advances in Carbohydrate Chemistry and Biochemistry Carbohydrate Chemistry Carbohydrate Chemistry, Biology and Medical Applications The Carbohydrates Volume 1A Carbohydrate Chemistry Food Carbohydrate Chemistry Carbohydrate Chemistry: State Of The Art And Challenges For Drug Development - An Overview On Structure, Biological Roles, Synthetic Methods And Application As Therapeutics Carbohydrate Chemistry Methods in Carbohydrate Chemistry: Reactions of carbohydrates Synthetic Strategies in Carbohydrate Chemistry Advances in Carbohydrate Chemistry and Biochemistry Carbohydrate Chemistry—VII General carbohydrate method Carbohydrates: The Essential Molecules of Life Timely Research Perspectives in Carbohydrate Chemistry Recent Trends in Carbohydrate Chemistry Essentials Of Carbohydrate Chemistry Carbohydrate Chemistry Carbohydrate Chemistry Carbohydrate Chemistry for Food Scientists Carbohydrate Chemistry Carbohydrate Chemistry Modern Synthetic Methods in Carbohydrate Chemistry The Carbohydrates Carbohydrate Chemistry Carbohydrate Chemistry Carbohydrate

Chemistry Volume 45 Cell Surface Carbohydrate Chemistry Methods in Carbohydrate Chemistry: Reactions of carbohydrates Modern Organocatalyzed Methods in Carbohydrate Chemistry Carbohydrate Chemistry General Methods Carbohydrate Chemistry Methods in Carbohydrate Chemistry: General carbohydrate methods Carbohydrate Chemistry

Essentials of Carbohydrate Chemistry

2012-12-06

this is the first broad treatment of carbohydrate chemistry in many years and presents the structures reactions modifications and properties of carbohydrates woven throughout the text are discussions of biological properties of carbohydrates their industrial applications and the history of the field of carbohydrate chemistry written for students as well as practising scientists this textbook and handy reference will be of interest to a wide range of disciplines biochemistry chemistry food and nutrition microbiology pharmacology and medicine

Carbohydrate Chemistry

2018-03-13

concise yet complete this is a succinct introduction to the topic covering both basic chemistry as well as such advanced topics as high throughput analytics and glycomics in one handy volume this improved and expanded 3rd edition features all new material on combinatorial synthesis of carbohydrates and carbohydrate biodiversity and each chapter now contains study questions for self learning and classroom teaching didactically written by an

experienced lecturer and graduate student advisor the text is backed by practical examples and more than 150 study questions tailored to students needs

Essentials of Carbohydrate Chemistry and Biochemistry

2007-04-09

carbohydrates play important roles in biological systems as energy sources as structural materials and as informational structures when they are often attached to proteins or lipids their chemical reactivity and conformational behaviour is governed by mechanistic and stereochemical rules

Carbohydrate Chemistry and Biochemistry

2007

detailing commonly used methods and procedures this reference discusses the reactions and derivative forms of carbohydrates preparative carbohydrate chemistry covers the formation cleavage and reactions of derivatives and illustrates bond forming reactions of sn2 types free radicals chain extensions and branching the contents include sugar derivatives selected

reactions in carbohydrate chemistry chemical synthesis of oligosaccharides and o and n glycosyl compounds enzymatic synthesis of sialic acid kdo and related deoxyulosonic acids and of oligosaccharides synthesis of glycosyl compounds carbocycles from carbohydrates and total synthesis of sugars from non sugars this authoritative reference offers relevant chapters on reactions and derivative forms of carbohydrates including commonly used methods as well as new experimental procedures it also contains insightful chapter commentaries and succinct topic histories

Preparative Carbohydrate Chemistry

1997-01-02

since its inception in 1945 this serial has provided critical and integrating articles written by research specialists that integrate industrial analytical and technological aspects of biochemistry organic chemistry and instrumentation methodology in the study of carbohydrates the articles provide a definitive interpretation of the current status and future trends in carbohydrate chemistry and biochemistry

Advances in Carbohydrate Chemistry and Biochemistry

2000-01-24

carbohydrate chemistry provides review coverage of all publications relevant to the chemistry of monosaccharides and oligosaccharides in a given year

Carbohydrate Chemistry

2010

the finding by emil fischer that glucose and fructose on treatment with phenylhydrazine gave the identical osazone led him to the elucidation of stereochemistry of carbohydrates since then progress in the field of carbohydrates has been amazing with the unraveling their basic structure biosynthesis immunology functions and clinical uses for pure carbohydrates and for protein linked carbohydrates glycoproteins and proteoglycans the chapters in carbohydrate chemistry biology and medical applications present a logical sequence leading from the chemistry and biochemistry of carbohydrates followed by their role in various pathological conditions to carbohydrates as potential therapeutic and diagnostic agents this book offers a detailed panoramic review of the chemistry and biology of carbohydrates for chemists

biologists and health professionals each chapter is authored by contributors expert in the particular area of research explains how carbohydrates are important to life details the chemistry biology and medical aspects of carbohydrates interdisciplinary and international team of authors

Carbohydrate Chemistry, Biology and Medical Applications

2011-09-06

the carbohydrates chemistry and biochemistry second edition volume ia deals with the chemical and biochemical aspects of carbohydrates such as monosaccharides sugars esters halogen derivatives phosphates glycosides glycosans alditols and cyclitols topics range from carbohydrate chemistry and stereochemistry to the synthesis of naturally occurring monosaccharides mutarotations and actions of acids and bases conformations of sugars and reactivity of saccharide hydroxyl groups toward esterification this book consists of 15 chapters that explore the effects of ionizing radiations and autoxidation reactions physical methods and methods of separation nucleosides and antibiotics and the biosynthesis of sugars and complex saccharides the rapidly growing fields of glycolipids and glycoproteins are also discussed in addition the reader is introduced to halogen derivatives such as glycosyl

halides and nonanomeric halides along with the hydrolysis and synthesis of phosphates and other inorganic esters determination of the structure of glycosides and the physical and chemical properties of acyclic derivatives the two final chapters cover the official nomenclature rules for carbohydrates and for enzymes having carbohydrates as substrates this book will be of interest to chemists and biochemists

The Carbohydrates Volume 1A

2012-12-02

annotation a review of the literature published in 1989 on mono and oligosaccharide chemistry illustrating continuing general advances on all fronts with strong emphasis on the development of synthetic methods and their application to problems with origins in biology many examples of this are given in the sections on oligosaccharides nucleosides and antibiotics while the role of carbohydrate chemistry in general organic chemistry is well illustrated by the many complex conversions of sugar derivatives into enantiomerically pure natural substances of a non carbohydrate nature once again however biological issues in this case medicinal are commonly the driving forces behind the work acidic paper annotation c 2003 book news inc portland or booknews com

Carbohydrate Chemistry

1991

not since sugar chemistry by shallenberger and birch 1975 has a text clearly presented and applied basic carbohydrate chemistry to the quality attributes and functional properties of foods now in food carbohydrate chemistry author wrolstad emphasizes the application of carbohydrate chemistry to understanding the chemistry physical and functional properties of food carbohydrates structure and nomenclature of sugars and sugar derivatives are covered focusing on those derivatives that exist naturally in foods or are used as food additives chemical reactions emphasize those that have an impact on food quality and occur under processing and storage conditions coverage includes how chemical and physical properties of sugars and polysaccharides affect the functional properties of foods taste properties and non enzymic browning reactions the nutritional roles of carbohydrates from a food chemist s perspective basic principles advantages and limitations of selected carbohydrate analytical methods an appendix includes descriptions of proven laboratory exercises and demonstrations applications are emphasized and anecdotal examples and case studies are presented laboratory units homework exercises and lecture demonstrations are included in the appendix in addition to a complete list of cited references a listing of key references is included with brief annotations describing their important features students and professionals

alike will benefit from this latest addition to the ift press book series in food carbohydrate chemistry upper undergraduate and graduate students will find a clear explanation of how basic principles of carbohydrate chemistry can account for and predict functional properties such as sweetness browning potential and solubility properties professionals working in product development and technical sales will value food carbohydrate chemistry as a needed resource to help them understand the functionality of carbohydrate ingredients and persons in research and quality assurance will rely upon food carbohydrate chemistry for understanding the principles of carbohydrate analytical methods and the physical and chemical properties of sugars and polysaccharides

Food Carbohydrate Chemistry

2012-02-07

the structural complexity and the synthetic challenges facing glycans have historically hampered efforts to study their multifaceted roles and the application of carbohydrates in drug development however in very recent years new synthetic techniques flanked by the growing knowledge about carbohydrate involvement in physiological and pathological states has spurred renewed interest in the chemistry biology and therapeutic potentialities of carbohydrates this book offers an overview of key aspects of carbohydrate biology and

chemistry that are fundamental for the design of novel therapeutics the four part structure of this book introduces these essential components to life starting from their structure and biological roles and covering analytical methods and synthesis which pave the way for the development of a wide range of therapeutic applications leading experts from around the world are brought together to offer their recent research with the ultimate aim of enlightening the reader on the complex yet exciting field of carbohydrate chemistry academic and industrial researchers in structural biology drug discovery and carbohydrate chemistry will find this book an essential guide to the latest research and future potential of medicinal chemistry

Carbohydrate Chemistry: State Of The Art And Challenges For Drug Development - An Overview On Structure, Biological Roles, Synthetic Methods And Application As Therapeutics

2015-07-23

long gone are the days when synthetic publications included parallel preparative experiments to document reproducibility of the experimental protocols and when journals required such

documentation the new proven synthetic methods series addresses concerns to chemists regarding irreproducibility of synthetic protocols lack of characterization data for new compounds and inflated yields reported in many chemical communications trends that have recently become a serious problem volume one of carbohydrate chemistry proven synthetic methods includes more detailed versions of protocols previously published for the synthesis of oligosaccharides c glycosyl compounds sugar nucleotides click chemistry thioglycosides and thioimidates among others the compilation of protocols covers both common and less frequently used synthetic methods as well as examples of syntheses of selected carbohydrate intermediates with general utility the major focus of this book is devoted to the proper practice of state of the art preparative procedures including references to the starting materials used reaction setup work up and isolation of products followed by identification and proof of purity of the final material general information regarding convenience of operation and comments on safety issues versatile and practically useful methods that have not received deserved long lasting recognition or that are difficult to access from their primary sources copies of 1d nmr spectra of compounds prepared showing purity of materials readers can expect exploring carbohydrate chemistry from the academic points of view the carbohydrate chemistry proven synthetic methods series provides a compendium of preparatively useful procedures checked by chemists from independent research groups

Carbohydrate Chemistry

2011-09-22

synthetic strategies in carbohydrate chemistry covers carbohydrate synthesis and its widespread application in various disciplines including catalysis basic and advanced aspects of carbohydrates are covered starting with a brief introduction and then followed by protection deprotection strategies in carbohydrate chemistry glycosidic bond formation methodology and their impact in oligosaccharide synthesis recent synthetic approaches for o glycosides n glycosides thioglycosides and c glycosides intramolecular aglycon delivery iad and carbohydrate modification are discussed as well as stereoelectronic factors that control the chemical and biochemical behavior of carbohydrates in living cells in addition diverse applications of synthetic carbohydrate chemistry are covered including sugar based chiral catalyst in stereoselective synthesis sugar based ionic liquids one pot tandem reactions in carbohydrates total synthesis of glycoconjugated natural products impact of sugar in drug discovery and development vaccine development and glycoengineering this reference is essential reading for researchers working in synthetic carbohydrate chemistry and biochemistry and will be useful to those working in total synthesis novel synthetic methodology catalysis polymer science glycobiology medicinal chemistry and process development chemistry presents a practical and detailed overview on glycosylation

methodology covers automated glycosylation strategies in glycan synthesis includes recent progress in the synthesis and significance of diverse thio glycosides c glycosides imino sugars and carbasugars highlights the impact of enzymes in glycan synthesis discusses the recent approaches for the synthesis of neoglycoconjugates

Methods in Carbohydrate Chemistry: Reactions of carbohydrates

1962

since its inception in 1945 this serial has provided critical and integrating articles written by research specialists that integrate industrial analytical and technological aspects of biochemistry organic chemistry and instrumentation methodology in the study of carbohydrates the articles provide a definitive interpretation of the current status and future trends in carbohydrate chemistry and biochemistry

Synthetic Strategies in Carbohydrate Chemistry

2023-11-01

viith international symposium on carbohydrate chemistry is a collection of papers discussing thio sugars pathways of synthesis for specific polysaccharides and the structural chemistry of plant glycuronoglycans other papers explain ion binding on polyuronates as alginate and pectin the effects of acetate substituents on the conformations of di and polysaccharides as well as the immunochemical approaches to the structural chemistry of polysaccharides one paper investigates the stereochemical assignment in some 2 thio sugar derivatives and the stereochemical lability of 2 thioaldoses in basic media another paper examines the synthetic chemistry of oligosaccharides particularly the synthesis of trisaccharides one of which is a repeating unit of o antigenic polysaccharide from salmonella anatum one paper notes that plant acidic polysaccharides should be classified in terms of their basal core structures to enable groupings and comparisons of glycuronoglycans isolated from various sources another paper shows that the structure of the carbohydrate moiety of glycoproteins points to the biological role of carbohydrate moieties as possible cell recognition signals this collection can prove valuable for bio chemists cellular biologists micro biologists and developmental biologists

Advances in Carbohydrate Chemistry and Biochemistry

1999-10-25

methods in carbohydrate chemistry volume vi general carbohydrate methods contains a collection of selected methods from the entire field of carbohydrate chemistry this volume is comprised of useful procedures in analytical and preparative carbohydrate chemistry it is organized into 10 sections the first section deals with methods for separation and analysis which discusses chromatography and chemical physical and biochemical methods section ii covers the preparation of mono and polysaccharides and their derivatives section iii describes a variety of oxidation methods the fourth section is about procedures for the analysis of acyclic sugars sections v and vi present the etherification and esterification of carbohydrates nucleotides nucleosides and glycoside procedures are described in sections vii and viii the ninth section focuses on radioactively labeled sugars the final chapter provides a variety of physical methods such as mass spectrometry nuclear magnetic resonance spectroscopy and determination of molecular weights by osmometry chemists and biochemists will find this book very useful

Carbohydrate Chemistry—VII

2013-10-22

this book provides the nuts and bolts background for a successful study of carbohydrates the essential molecules that not only give you energy but are an integral part of many biological

processes a question often asked is why do carbohydrate chemistry the answer is simple it is fundamental to a study of biology carbohydrates are the building blocks of life and enable biological processes to take place therefore the book will provide a taste for the subject of glycobiology covering the basics of carbohydrates and then the chemistry and reactions of carbohydrates this book will enable a chemist to gain essential knowledge that will enable them to move smoothly into the worlds of biochemistry molecular biology and cell biology includes perspective from new co author spencer williams who enhances coverage of the connection between carbohydrates and life describes the basic chemistry and biology of carbohydrates reviews the concepts synthesis reactions and biology of carbohydrates

General carbohydrate method

2012-12-02

this book includes a collection of minireviews and research papers written by international leaders in the field of carbohydrate chemistry as well as promising young talents the contents of the contributions span from natural products over structure elucidation with special emphasis on spectroscopy syntheses and synthetic methods biological activities applications of carbohydrates and carbohydrate mimetics as well as their use as molecular scaffolds and carriers of biological information the reader will get a representative overview

of state of the art research topics and approaches

Carbohydrates: The Essential Molecules of Life

2010-08-06

carbohydrate chemistry provides access to carbohydrate based natural products and synthetic molecules as useful biologically active structures relevant to many health care and disease related biological processes recent trends in carbohydrate chemistry synthesis structure and function of carbohydrates covers green and sustainable reactions organometallic carbohydrate chemistry synthesis of glycomimetics multicomponent reactions and chemical transformations leading to molecular diversity based on carbohydrates these include inhibitors of glycogen phosphorylase which are relevant in controlling type 2 diabetes and sugar sulfates polysaccharides which are commonly modified chemically are also examined with contributions covering polysaccharide synthesis and modification of polysaccharides to obtain new structures and properties recent trends in carbohydrate chemistry synthesis structure and function of carbohydrates is ideal for researchers working as synthetic organic chemists and for those interested in biomolecular chemistry green chemistry organometallic chemistry and material chemistry in academia as well as in industry demonstrates the importance of carbohydrate chemistry as green and sustainable

chemistry details monosaccharide syntheses and transformations toward biologically active small molecular entities provides the most recent findings on polysaccharide synthesis and bioapplications

Timely Research Perspectives in Carbohydrate Chemistry

2012-12-06

carbohydrate chemistry provides review coverage of all publications relevant to the chemistry of monosaccharides and oligosaccharides in a given year the amount of research in this field appearing in the organic chemical literature is increasing because of the enhanced importance of the subject especially in areas of medicinal chemistry and biology in no part of the field is this more apparent than in the synthesis of oligosaccharides required by scientists working in glycobiology clycomedicinal chemistry and its reliance on carbohydrate synthesis is now very well established for example by the preparation of specific carbohydrate based antigens especially cancer specific oligosaccharides and glycoconjugates coverage of topics such as nucleosides amino sugars alditols and cyclitols also covers much research of relevance to biological and medicinal chemistry each volume of the series brings together references to all published work in given areas of the subject and serves as a

comprehensive database for the active research chemist specialist periodical reports provide systematic and detailed review coverage in major areas of chemical research compiled by teams of leading authorities in the relevant subject areas the series creates a unique service for the active research chemist with regular in depth accounts of progress in particular fields of chemistry subject coverage within different volumes of a given title is similar and publication is on an annual or biennial basis

Recent Trends in Carbohydrate Chemistry

2020-05-13

the second volume in the series carbohydrate chemistry proven synthetic methods volume 2 offers a collection of synthetic procedures valuable to the practice of synthetic carbohydrate chemistry the series takes an important and unique approach in that all described procedures have been independently verified as reliable and reproducible with editors and contributors who are highly respected scientists in the field this book provides a widely useful reference for both researchers and students exploring carbohydrate chemistry from both academic and industrial points of view the book begins with an introductory section that offers tricks and tips collected by the series editor from many years of experience working in carbohydrate laboratories the subsequent chapters present detailed protocols on both

specific synthetic transformations and the preparation of common synthetic intermediates with figures to aid in comprehension procedures are described for regioselective benzylidene ring opening reactions oxidation reactions to provide uronic acids stereoselective alpha glucosylation reactions and more protocols for synthetic intermediates of general utility include 3 4 6 tri o acetyl d galactal phenyl 4 6 o benzylidene 1 thio α d mannopyranoside 1 2 anhydro 3 4 6 tri o benzyl β d mannopyranoside and methyl n acetylneuraminic acid among many others each chapter presents in depth experimental descriptions for the reported procedures including reaction setup reaction conditions work up procedures and purification protocols the chapters also provide detailed characterization of all products and intermediates as well as copies of the 1h nmr and 13c nmr of the described products and intermediates to indicate the purity of the obtained materials and to serve as a valuable reference for future practitioners this book provides an important starting point to reliably access synthetic carbohydrate materials and as such offers a valuable resource for the synthetic organic chemistry community through the streamlined access of well defined products it provides a thrust to the rapidly growing field of chemical glycobiology

Essentials Of Carbohydrate Chemistry

2009-09-01

carbohydrate chemistry for food scientists third edition is a complete update of the critically acclaimed authoritative carbohydrate reference for food scientists the new edition is fully revised expanded and redesigned as an easy to read resource for students and professionals who need to understand this specialized area the new edition provides practical information on the specific uses of carbohydrates the functionalities delivered by specific carbohydrates and the process for choosing carbohydrate ingredients for specific product applications readers will learn basic and specific applications of food carbohydrate organic and physical chemistry through clearly explained presentations of mono oligo and polysaccharides and their chemistry this new edition includes expanded sections on maillard browning reaction dietary fiber fat mimetics and polyols in addition to discussions of physical properties imparted functionalities and actual applications it is an invaluable resource on the chemistry of food carbohydrates for advanced undergraduate and graduate students and a concise user friendly applied reference book for food science professionals identifies structures and chemistry of all food carbohydrates monosaccharides oligosaccharides and polysaccharides covers the behavior and functionality of carbohydrates within foods contains extensive coverage of the structures and properties of individual polysaccharides including cellulose inulin gellans and pectins amongst others

Carbohydrate Chemistry

1996

with the increase in volume velocity and variety of information researchers can find it difficult to keep up to date with the literature in the field as the synthesis of novel carbohydrates and carbohydrate mimetics continues to be a major challenge for organic chemists not least because of the increasingly interdisciplinary nature of carbohydrate science carbohydrate chemistry volume 41 will prove invaluable covering both chemical and biological science this series collates modern carbohydrate research from theory to application and will be of great benefit to any researcher who wishes to learn about the latest developments in the carbohydrate field

Carbohydrate Chemistry

2014-03-04

volumes in the proven synthetic methods series address the concerns many chemists have regarding irreproducibility of synthetic protocols lack of characterization data for new compounds and inflated yields reported in chemical communications trends that have

recently become a serious problem featuring contributions from world renowned experts and overseen by a highly respected series editor carbohydrate chemistry proven synthetic methods volume 3 compiles reliable protocols for the preparation of intermediates for carbohydrate synthesis or other uses in the glycosciences exploring carbohydrate chemistry from both the academic and industrial points of view this unique resource brings together useful information into one convenient reference to ensure reproducibility an independent checker has verified the experimental parts involved by repeating the protocols or using the methods the book includes new or more detailed versions of previously published protocols as well as those published in not readily available journals the essential characteristics of the protocols presented are reliability and the expectation of wide utility in the carbohydrate field the protocols presented will be of wide use to a wide range of readers in the carbohydrate field including undergraduates taking carbohydrate workshops

Carbohydrate Chemistry for Food Scientists

2018-10-01

the fields of glycochemistry and glycoscience are rich and varied and where much can be learned from nature as nature is not always able to produce carbohydrates in quantities useful for not only in research but also as therapeutic agents new ways need to be found to

optimize the yield this book presents an overview of the latest developments in the field of carbohydrates ranging from de novo approaches via cyclodextrin chemistry to the synthesis of such highly complex glycoconjugates as glycosphingolipids and gpi anchors the main emphasis remains on the synthetic aspects making the book an excellent source of information for those already involved in carbohydrate chemistry as well as for those organic chemists who are beginners in this field equally of interest to synthetic chemists as well as medicinal chemists and biochemists

Carbohydrate Chemistry

2015-12-02

the carbohydrates chemistry and biochemistry second edition volume iib is a complete revision of a previous work that was based on the chemistry of the carbohydrates this volume is composed of 10 chapters that cover the chemical and biochemical aspects of the main types of carbohydrates this book begins with considerable chapters on the main types of carbohydrates including starch glycogen pectins plant gums plant algal and microbial polysaccharides as well as monosaccharides these chapters specifically tackle the occurrence isolation production properties and reactions of these carbohydrates this volume includes chapters on the fields of glycolipids and glycoproteins the concluding chapters cover the

official nomenclature rules for carbohydrates and for enzymes having carbohydrates as substrates this volume is of great value to carbohydrates scientists and researchers

Carbohydrate Chemistry

2015-04-23

carbohydrate chemistry monosaccharides and their oligomers is a textbook designed to fill the gap between large multivolume reference books and elementary books the contents of the book are divided into two major parts monomeric carbohydrates and oligosaccharides with an introductory chapter discussing the historical background and significance of carbohydrates the chapters under part i monosaccharides deal with its chemistry specifically the determination of the structure configuration and conformation other topics covered in this part are the discussion on the elucidation proper nomenclature of carbohydrates structure elucidation and the reactions of monosaccharides part ii deals with oligosaccharides and oligonucleotides some of the topics discussed in this part include structure elucidation wet chemical methods and chemical synthesis and modification this book will be of great use to graduate and undergraduate students in the fields of chemistry biochemistry medicine and pharmacy

Modern Synthetic Methods in Carbohydrate Chemistry

2013-09-23

in this volume glycochemistry and glycobiology have been combined to demonstrate the contribution of organic chemistry modern analytics biological and biochemical expertise to the increasingly important field of glycomics a polysaccharide immunomodulator with therapeutic implications carbohydrate vaccines new findings emphasizing the influence of carbohydrate decoration on the regulation of inflammatory response and new therapeutic approaches in the treatment of acute and chronic inflammatory diseases recent progress on glycoengineering based on a glycosylation strategy to optimize protein drugs congenital disorders of glycosylation and key aspects of the glycosylation changes associated with bladder cancer are amongst the subjects presented in this volume the contribution of glycochemistry to innovation in glycosciences is shown with chapters covering highly functionalized exo glycals for the generation of molecular diversity in a chemoselective manner imino sugar glycosidase inhibitors carbasugars multivalent glycoconjugates including glycodendrimers glyconanotubes and glyconanoparticles and their uses in medicinal chemistry as well as artificial saccharide based and saccharide functionalized gene delivery systems siderophores based on monosaccharides which have proven effective for gram negative bacteria and mycobacteria and the so called smart materials which can modulate

and control cell behaviour complete the volume volume 39 of carbohydrate chemistry chemical and biological approaches contains contributions ranging from glycochemistry to glycobiology this collection demonstrates in a meaningful way how the interdisciplinary approach of an international glyconetwork can advance the field of carbohydrate research in europe and worldwide

The Carbohydrates

2012-12-02

carbohydrate chemistry is an invaluable volume demonstrating the interdisciplinary nature of modern carbohydrate research and containing analysed evaluated and distilled information on the latest research in the area

Carbohydrate Chemistry

2012-12-02

cell surface carbohydrate chemistry is a collection of papers from a symposium of the same title held in san francisco u s a on september 1 2 1976 the book discusses cell biology and

carbohydrates particularly oligosaccharides that make up the glycoproteins and glycolipids in the cell membrane of normal neoplastic cells one paper discusses the involvement of membranes in the biosynthesis of glycoproteins one author also analyzes the glycoproteins from the surface of tumor cells the glycoproteins have complex saccharide structures similar to virus transformed fibroblasts or transformed epithelial cells another paper cites the concepts made by abercrombie and ambrose regarding distinct galactosyltransferase activity released by tumor cells another paper addresses a hypothetical mechanism to explain the control of cell growth by nucleoside efflux through the membrane one author analyzes the basis for the selectivity of some cancer chemotherapeutic agents these can also have an effect in the immunity responses of the host against cancer cells this book can prove useful for the medically oriented investigator the biologist and the scientist involved in molecular chemistry and cancer research

Carbohydrate Chemistry

2013-06-17

this brief presents a valuable and concise overview of organocatalytic methodologies in carbohydrate chemistry it includes glycosylation processes with de novo syntheses of carbohydrates and chain elongation of carbohydrates the author an academic of international

distinction goes on to make comparisons between traditional organic and metalorganic transformations

Carbohydrate Chemistry Volume 45

2021-12-22

in this volume glycochemistry and glycobiology have been combined to demonstrate the contribution of organic chemistry modern analytics biological and biochemical expertise to the increasingly important field of glycomincs a polysaccharide immunomodulator with therapeutic implications carbohydrate vaccines new findings emphasizing the influence of carbohydrate decoration on the regulation of inflammatory response and new therapeutic approaches in the treatment of acute and chronic inflammatory diseases recent approachesin the treatment of acute and chronic inflammatory diseases recent progress on glycoengineering based on a glycosylation and key aspects of the glycosylation changes associated with bladder cancer are amongst the subjects presented in this volume the contribution of glycochemistry to innovation in glycosciences is shown with chapters covering highly functionalized exo glycals for the generation of molecular diversity in a chemoselective manner imino sugar glycosidase inhibitors carbasugars multivalent glycoconjugates including glycodendrimers glyconanotubes and glyconanoparticles and their uses in medicinal

chemistry as well as artificial saccharide based and saccharide functionalized gene delivery systems siderphores based on monosaccharides which have proven effective for gram negative bacteria and mycobacteria and the so called smart materials which can modulate and control cell behaviour complete the volume volume 38 of carbohydrate chemistry chemical and biological apporaches contains contributions ranging from glycochemistry to glycobiology this collection demonstrates in a meaningful way how the interdisciplinary approach of an international glyconetwork can advance the field of carbohydrate research in europe and worldwide

Cell Surface Carbohydrate Chemistry

2013-09-17

methods in carbohydrate chemistry volume viii general methods describes the principles and mode of operation of general methods for the analysis and structural characterization of carbohydrates this book is organized into two sections encompassing 50 chapters the first section highlights the methods on automated chromatographic techniques enzymic and other methods for structural analysis of polysaccharides this section also explores the application of 13c nmr spectroscopy to carbohydrate chemistry the second section describes the synthesis of deoxy and branched chain sugars 1 2 transglycosides de n and de o sulfation

and de n acetylation of polysaccharides this book is an invaluable source for organic and analytical chemists as well as for carbohydrate scientists and researchers

Methods in Carbohydrate Chemistry: Reactions of carbohydrates

1962

this product is not available separately it is only sold as part of a set there are 750 products in the set and these are all sold as one entity

Modern Organocatalyzed Methods in Carbohydrate Chemistry

2015-05-07

carbohydrate chemistry provides review coverage of all publications relevant to the chemistry of monosaccharides and oligosaccharides in a given year the amount of research in this field appearing in the organic chemical literature is increasing because of the

enhanced importance of the subject especially in areas of medicinal chemistry and biology in no part of the field is this more apparent than in the synthesis of oligosaccharides required by scientists working in glycobiology clycomedicinal chemistry and its reliance on carbohydrate synthesis is now very well established for example by the preparation of specific carbohydrate based antigens especially cancer specific oligosaccharides and glycoconjugates coverage of topics such as nucleosides amino sugars alditols and cyclitols also covers much research of relevance to biological and medicinal chemistry each volume of the series brings together references to all published work in given areas of the subject and serves as a comprehensive database for the active research chemist specialist periodical reports provide systematic and detailed review coverage in major areas of chemical research compiled by teams of leading authorities in the relevant subject areas the series creates a unique service for the active research chemist with regular in depth accounts of progress in particular fields of chemistry subject coverage within different volumes of a given title is similar and publication is on an annual or biennial basis

Carbohydrate Chemistry

2012-08-31

General Methods

2012-12-02

Carbohydrate Chemistry

1992

Methods in Carbohydrate Chemistry: General carbohydrate methods

1962

Carbohydrate Chemistry

2009-07

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