

Chemistry Textbooks Online

Presents the most innovative results in carbene chemistry, setting the foundation for new discoveries and applications. The discovery of stable carbenes has reinvigorated carbene chemistry research, with investigators seeking to develop carbenes into new useful catalysts and ligands. Presenting the most innovative and promising areas of carbene research over the past decade, this book explores newly discovered structural, catalytic, and organometallic aspects of carbene chemistry, with an emphasis on new and emerging synthetic applications. Contemporary Carbene Chemistry features contributions from an international team of pioneering carbene chemistry researchers. Collectively, these authors have highlighted the most interesting and promising areas of investigation in the field. The book is divided into two parts: Part 1, Properties and Reactions of Carbenes, explores new findings on carbene stability, acid-base behavior, and catalysis. Carbenic structure and reactivity are examined in chapters dedicated to stable carbenes, carbodicarbenes, carbenes as guests in supramolecular hosts, tunneling in carbene and oxacarbene reactions, and ultrafast kinetics of carbenes and their excited state precursors. Theoretical concerns are addressed in chapters on computational methods and dynamics applied to carbene reactions. Part 2, Metal Carbenes, is dedicated to the synthetic dimensions of carbenes, particularly the reactions and catalytic properties of metal carbenes. The authors discuss lithium, rhodium, ruthenium, chromium, molybdenum, tungsten, cobalt, and gold. All the chapters conclude with a summary of the current situation, new challenges on the horizon, and promising new research directions. A list of key reviews and suggestions for further reading also accompanies every chapter. Each volume of the Wiley Series on Reactive Intermediates in Chemistry and Biology focuses on a specific reactive intermediate, offering a broad range of perspectives from leading experts that sets the stage for new applications and further discoveries.

A new approach to teaching university-level chemistry that links core concepts of chemistry and physical science to current global challenges. Introductory chemistry and physics are generally taught at the university level as isolated subjects, divorced from any compelling context. Moreover, the "formalism first" teaching approach presents students with disembodied knowledge, abstract and learned by rote. By contrast, this textbook presents a new approach to teaching university-level chemistry that links core concepts of chemistry and physical science to current global challenges. It provides the rigorous

development of the principles of chemistry but places these core concepts in a global context to engage developments in technology, energy production and distribution, the irreversible nature of climate change, and national security. Each chapter opens with a "Framework" section that establishes the topic's connection to emerging challenges. Next, the "Core" section addresses concepts including the first and second law of thermodynamics, entropy, Gibbs free energy, equilibria, acid-base reactions, electrochemistry, quantum mechanics, molecular bonding, kinetics, and nuclear. Finally, the "Case Studies" section explicitly links the scientific principles to an array of global issues. These case studies are designed to build quantitative reasoning skills, supply the technology background, and illustrate the critical global need for the infusion of technology into energy generation. The text's rigorous development of both context and scientific principles equips students for advanced classes as well as future involvement in scientific and societal arenas. University Chemistry was written for a widely adopted course created and taught by the author at Harvard. A detailed understanding of the chemistry of surfaces and interfaces is required by many research personnel in the chemical and life science industries, as surfaces and interfaces play a critical role in many of the processes they seek to influence. Surface Chemistry of Solid and Liquid Interfaces provides a concise and easily accessible introduction to this fascinating subject. With a smooth evolution of ideas from familiar physical chemistry principles, the student can develop a sophisticated understanding of the chemistry of surfaces and interfaces. The book is also highly relevant to new researchers in industry and newly emerging nanotechnology field who often encounter surface and interface chemistry and need to be conversant with the principles and investigative tools, without being specialists. "Chemistry is designed for the two-semester general chemistry course. For many students, this course provides the foundation to a career in chemistry, while for others, this may be their only college-level science course. As such, this textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them. The text has been developed to meet the scope and sequence of most general chemistry courses. At the same time, the book includes a number of innovative features designed to enhance student learning. A strength of Chemistry is that instructors can customize the book, adapting it to the approach that works best in their classroom."--Openstax College website.

Drugs, Catalysts, Materials

An Open Textbook

Modern Fluoroorganic Chemistry

From Monosaccharides to Complex Glycoconjugates

The Valence Shell in d-Block Chemistry

The Art of Process Chemistry

The combined results from an international research project involving 40 interdisciplinary groups, providing the latest knowledge from the past few years. Adopting an application-oriented approach, this handy reference is a must-have for every silicon chemist, whether working in inorganic, organic, physical or polymer chemistry, materials science or physics.

Earn College Credit with REA's Test Prep for CLEP* Chemistry Everything you need to pass the exam and get the college credit you deserve. CLEP* is the most popular credit-by-examination program in the country, accepted by more than 2,900 colleges and universities. For over 15 years, REA has helped students pass the CLEP* exam and earn college credit while reducing their tuition costs. Our CLEP* test preps are perfect for adults returning to college (or attending for the first time), military service members, high-school graduates looking to earn college credit, or home-schooled students with knowledge that can translate into college credit. There are many different ways to prepare for the CLEP* exam.

What's best for you depends on how much time you have to study and how comfortable you are with the subject matter. Our test prep for CLEP* Chemistry and the free online tools that come with it, will allow you to create a personalized CLEP* study plan that can be customized to fit you: your schedule, your learning style, and your current level of knowledge. Here's how it works: Diagnostic exam at the REA Study Center focuses your study Our online diagnostic exam pinpoints your strengths and shows you exactly where you need to focus your study. Armed with this information, you can personalize your prep and review where you need it the most. Most complete subject review for CLEP* Chemistry Our targeted review covers all the material you'll be expected to know for the exam and includes a glossary of must-know terms. Two full-length practice exams The online REA Study Center gives you two full-length practice tests and the most powerful scoring analysis and diagnostic tools available today. Instant score reports help you zero in on the CLEP* Chemistry topics that give you trouble now and show you how to arrive at the correct answer-so you'll be prepared on test day. REA is the acknowledged leader in CLEP* preparation, with the most extensive library of CLEP* titles available. Our test preps for CLEP* exams help you earn valuable college credit, save on tuition, and get a head start on your college degree.

Reviews subjects featured in the CLEP chemistry examination and provides two practice tests with detailed answers as well as test-taking tips and strategies. Bishop's text shows students how to break the material of preparatory chemistry down and master it. The system of objectives tells the students exactly what they must learn in each chapter and where to find it.

Theory and Applications for Exploring Chemical Space and Drug Discovery

Holt McDougal Modern Chemistry

Introductory Chemistry Online!

Organotin Chemistry

Transition Metal Chemistry Water Chemistry

Secondary audience: the book will serve as a reference source for researchers and other professionals in environmental engineering and all areas of aquatic chemistry.

Organic Chemistry of Explosives is the first text to bring together the essential methods and routes used for the synthesis of organic explosives in a single volume. Assuming no prior knowledge, the book discusses everything from the simplest mixed acid nitration of toluene, to the complex synthesis of highly energetic caged nitro compounds. Reviews laboratory and industrial methods, which can be used to introduce aliphatic C-nitro, aromatic C-nitro, N-nitro, and nitrate ester functionality into organic compounds. Discusses the advantages and disadvantages of each synthetic method or route, with scope, limitations, substrate compatibility and other important considerations. Features numerous examples in the form of text, reaction diagrams, and tables.

Steve and Susan Zumdahl's texts focus on helping students build critical thinking skills through the process of becoming independent problem-solvers. They help students learn to think like a chemists so they can apply the problem solving process to all aspects of their lives. In CHEMISTRY: AN ATOMS FIRST APPROACH, the Zumdahls use a meaningful approach that begins with the atom and proceeds through the concept of molecules, structure, and bonding, to more complex materials and their properties. Because this approach differs from what most students have experienced in high school courses, it encourages them to focus on conceptual learning early in the course, rather than relying on memorization and a plug and chug method of problem solving that even the best students can fall back on when confronted with familiar material. The atoms first organization provides an opportunity for students to use the tools of critical thinkers: to ask questions, to apply rules and models and to evaluate outcomes. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

'Ideal for getting an overview of applied organic chemistry' This bestselling standard, now in its 3rd completely revised English edition, is an excellent source of technological and economic information on the most important precursors and intermediates used in the chemical industry. Right and left columns containing synopsis of the main text and statistical data, and numerous fold-out flow diagrams ensure optimal didactic presentation of complex chemical processes. The translation into eight languages, the four German and three English editions clearly evidence the popularity of this book.

'... it is where I look first to get a quick overview of the manufacturing process of a product... Weissermel/Arpe has been serving me for years as an indispensable reference work.' (Berichte der Bunsengesellschaft für Physikalische Chemie) 'Whether student or scientist, theorist or practitioner - everybody interested in industrial organic chemistry will appreciate this work.' (farbe + lack) '...it

should be ready to hand to every chemist or process engineer involved directly or indirectly with industrial organic chemistry . It should be in the hand of every higher-graduate student, especially if chemical technology is not part of the study, like in many college universities... (Tenside-Surfactants-Detergents)

A Handbook for DNA-Encoded Chemistry

Foundations of Life

Concept Development Studies in Chemistry

Modern Analytical Chemistry

Silicon Chemistry

AP Chemistry Crash Course Book + Online

In this handbook, Peer Kirsch clearly shows that this exciting field is no longer an exotic area of research. Aimed primarily at synthetic chemists wanting to gain a deeper understanding of the fascinating implications of including the highly unusual element fluorine in organic compounds, the main part of the book presents a wide range of synthetic methodologies and the experimental procedures selected undeniably show that this can be done with standard laboratory equipment. To round off, the author looks at fluorous chemistry and the applications of organofluorine compounds in liquid crystals, polymers and more besides. This long-awaited book represents an indispensable source of high quality information for everyone working in the field.

Modern Analytical Chemistry is a one-semester introductory text that meets the needs of all instructors. With coverage in both traditional topics and modern-day topics, instructors will have the flexibility to customize their course into what they feel is necessary for their students to comprehend the concepts of analytical chemistry.

Filling the gap for an up-to-date reference that presents the field of organophosphorus chemistry in a comprehensive and clearly structured way, this one-stop source covers the chemistry, properties, and applications from life science and medicine. Divided into two parts, the first presents the chemistry of various phosphorus-containing compounds and their synthesis, including ylides, acids, and heterocycles. The second part then goes on to look at applications in life science and bioorganic chemistry. Last but not least, such important practical aspects as ^{31}P -NMR and protecting strategies for these compounds are presented. For organic, bioinorganic, and medicinal chemists, as well as those working on organometallics, and for materials scientists. The book, a contributed work, features a team of renowned scientists from around the world whose expertise spans the many aspects of modern organophosphorus chemistry. Ideal for those who have previously studied organic chemistry but not in great depth and with little exposure to organic chemistry in a formal sense. This text aims to bridge the gap between introductory-level instruction and more advanced graduate-level texts, reviewing the basics as well as presenting the more advanced ideas that are currently of importance in organic chemistry. * Provides students with the organic chemistry background required to succeed in advanced courses. * Practice problems included at the end of each chapter.

Textbook of Veterinary Physiological Chemistry

CLEP Chemistry Book + Online

Chemistry

Dynamic Covalent Chemistry

Industrial Organic Chemistry

An Intermediate Text

Emphasises on contemporary applications and an intuitive problem-solving approach that helps students discover the exciting potential of chemical science. This book incorporates fresh applications from the three major areas of modern research: materials, environmental chemistry, and biological science.

This is part two of two for Chemistry: Atoms First by OpenStax. This book covers chapters 11-21.

Chemistry: Atoms First is a peer-reviewed, openly licensed introductory textbook produced through a collaborative publishing partnership between OpenStax and the University of Connecticut and UConn Undergraduate Student Government Association. This title is an adaptation of the OpenStax Chemistry text and covers scope and sequence requirements of the two-semester general chemistry course.

Reordered to fit an atoms first approach, this title introduces atomic and molecular structure much earlier than the traditional approach, delaying the introduction of more abstract material so students have time to acclimate to the study of chemistry. Chemistry: Atoms First also provides a basis for understanding the application of quantitative principles to the chemistry that underlies the entire course. The images in this textbook are grayscale.

A concise introduction to the chemistry and design principles behind important metal-organic frameworks and related porous materials Reticular chemistry has been applied to synthesize new classes of porous materials that are successfully used for myriad applications in areas such as gas separation, catalysis, energy, and electronics. Introduction to Reticular Chemistry gives an unique overview of the principles of the chemistry behind metal-organic frameworks (MOFs), covalent organic frameworks (COFs), and zeolitic imidazolate frameworks (ZIFs). Written by one of the pioneers in the field, this book covers all important aspects of reticular chemistry, including design and synthesis, properties and characterization, as well as current and future applications Designed to be an accessible resource, the book is written in an easy-to-understand style. It includes an extensive bibliography, and offers figures and videos of crystal structures that are available as an electronic supplement. Introduction to Reticular Chemistry: -Describes the underlying principles and design elements for the synthesis of important metal-organic frameworks (MOFs) and related materials -Discusses both real-life and future applications in various fields, such as clean energy and water adsorption -Offers all graphic material on a companion website -Provides first-hand knowledge by Omar Yaghi, one of the pioneers in the field, and his team. Aimed at graduate students in chemistry, structural chemists, inorganic chemists, organic chemists, catalytic chemists, and others, Introduction to Reticular Chemistry is a groundbreaking book that explores the chemistry principles and applications of MOFs, COFs, and ZIFs.

K.C. Nicolaou - Winner of the Nemitsas Prize 2014 in Chemistry At long last, the mechanism-based and application-oriented handbook of combinatorial chemistry. Since its very beginning, research in this field has continued to develop at a rapid rate. Increasingly elegant methods are being invented and an even wider range of possible applications is still being discovered, such that combinatorial chemistry is now an integral part of industrial and academic research. The high-class editorial team - K. C. Nicolaou of The Scripps Institute and UCSD, and R. Hanco and W. Hartwig from Bayer - ensure comprehensive coverage and top quality contributions. This two-volume work deals with synthetic chemistry in all its forms, applications from life sciences, chemistry and material sciences, all there is to know about compound library design and synthesis, and, of course, the general basics - making it an indispensable reference for synthetic, organic and medicinal chemists, chemical biologists as well as material scientists.

Modern Synthetic Methods in Carbohydrate Chemistry

Chemistry 2e

An Introduction to Chemistry

Part 2: Atoms First

Visible Light Photocatalysis in Organic Chemistry

Organic Chemistry

Bridging the gap between basic and clinical science concepts, the Textbook of Veterinary Physiological Chemistry, Third Edition offers broad coverage of

biochemical principles for students and practitioners of veterinary medicine. The only recent biochemistry book written specifically for the veterinary field, this text covers cellular-level concepts related to whole-body physiologic processes in a reader-friendly, approachable manner. Each chapter is written in a succinct and concise style that includes an overview summary section, numerous illustrations for best comprehension of the subject matter, targeted learning objectives, and end of the chapter study questions to assess understanding. With new illustrations and an instructor website with updated PowerPoint images, the Textbook of Veterinary Physiological Chemistry, Third Edition, proves useful to students and lecturers from diverse educational backgrounds. Sectional exams and case studies, new to this edition, extend the breadth and depth of learning resources. Provides newly developed case studies that demonstrate practical application of concepts Presents comprehensive sectional exams for self-assessment Delivers instructor website with updated PowerPoint images and lecture slides to enhance teaching and learning Employs a succinct communication style in support of quick comprehension

The most comprehensive match to the new 2014 Chemistry syllabus, this completely revised edition gives you unrivalled support for the new concept-based approach, the Nature of science. The only DP Chemistry resource that includes support directly from the IB, focused exam practice, TOK links and real-life applications drive achievement.

Filling the need for a ready reference that reflects the vast developments in this field, this book presents everything from fundamentals, applications, various reaction types, and technical applications. Edited by rising stars in the scientific community, the text focuses solely on visible light photocatalysis in the context of organic chemistry. This primarily entails photo-induced electron transfer and energy transfer chemistry sensitized by polypyridyl complexes, yet also includes the use of organic dyes and heterogeneous catalysts. A valuable resource to the synthetic organic community, polymer and medicinal chemists, as well as industry professionals.

Environmental Organic Chemistry focuses on environmental factors that govern the processes that determine the fate of organic chemicals in natural and engineered systems. The information discovered is then applied to quantitatively assessing the environmental behaviour of organic chemicals. Now in its 2nd edition this book takes a more holistic view on physical-chemical properties of organic compounds. It includes new topics that address aspects of gas/solid partitioning, bioaccumulation, and transformations in the atmosphere. Structures chapters into basic and sophisticated sections Contains illustrative examples, problems and case studies Examines the fundamental aspects of organic, physical and inorganic chemistry - applied to environmentally relevant problems Addresses problems and case studies in one volume

For the IB diploma
University Chemistry

Synthesis, Reactivity, Applications
Essentials of Chemistry
General, Organic, and Biological Chemistry
Handbook of Combinatorial Chemistry

Chemistry 2e Introductory Chemistry Online! Chemistry Principles, Patterns, and Applications
The first and only exhaustive review of the theory, thermodynamic fundamentals, mechanisms, and design principles of dynamic covalent systems
Dynamic Covalent Chemistry: Principles, Reactions, and Applications presents a comprehensive review of the theory, thermodynamic fundamentals, mechanisms, and design principles of dynamic covalent systems. It features contributions from a team of international scientists, grouped into three main sections covering the principles of dynamic covalent chemistry, types of dynamic covalent chemical reactions, and the latest applications of dynamic covalent chemistry (DCvC) across an array of fields. The past decade has seen tremendous progress in (DCvC) research and industrial applications. The great synthetic power and reversible nature of this chemistry has enabled the development of a variety of functional molecular systems and materials for a broad range of applications in organic synthesis, materials development, nanotechnology, drug discovery, and biotechnology. Yet, until now, there have been no authoritative references devoted exclusively to this powerful synthetic tool, its current applications, and the most promising directions for future development. ***Dynamic Covalent Chemistry: Principles, Reactions, and Applications*** fills the yawning gap in the world literature with comprehensive coverage of: The energy landscape, the importance of reversibility, enthalpy vs. entropy, and reaction kinetics Single-type, multi-type, and non-covalent reactions, with a focus on the advantages and disadvantages of each reaction type Dynamic covalent assembly of discrete molecular architectures, responsive polymer synthesis, and drug discovery Important emerging applications of dynamic covalent chemistry in nanotechnology, including both material- and bio-oriented directions Real-world examples describing a wide range of industrial applications for organic synthesis, functional materials development, nanotechnology, drug delivery and more ***Dynamic Covalent Chemistry: Principles, Reactions, and Applications*** is must-reading for researchers and chemists working in dynamic covalent chemistry and supramolecular chemistry. It will also be of value to academic researchers and advanced students interested in applying the principles of (DCvC) in organic synthesis, functional materials development, nanotechnology, drug discovery, and chemical biology.

REA's Crash Course for the AP* Chemistry Exam - Gets You a Higher Advanced Placement* Score in Less Time Completely Revised for the New 2014 Exam! ***Crash Course*** is perfect for the time-crunched student, the last-minute studier, or anyone who wants a refresher on the subject. Are you crunched for time? Have you started studying for your Advanced Placement* Chemistry exam yet? How will you memorize everything you need to know before the test? Do you wish there was a fast and easy way to study for the exam AND boost your score? If this sounds like you, don't panic. ***REA's Crash Course for AP* Chemistry*** is just what you need. Our ***Crash Course*** gives you: Targeted, Focused Review - Study Only What You Need to Know Fully revised for the 2014 AP* Chemistry exam, this ***Crash Course*** is based on an in-depth analysis of the revised AP* Chemistry course description outline and sample AP* test questions. It covers only the information tested on the new exam, so you can make the most of your valuable study time. Our targeted review focuses on the Big Ideas that will be covered on the exam. Explanations of the AP* Chemistry Labs are also included. Expert Test-taking

Strategies This Crash Course presents detailed, question-level strategies for answering both the multiple-choice and essay questions. By following this advice, you can boost your score in every section of the test. Take REA's Online Practice Exam After studying the material in the Crash Course, go to the online REA Study Center and test what you've learned. Our practice exam features timed testing, detailed explanations of answers, and automatic scoring analysis. The exam is balanced to include every topic and type of question found on the actual AP* exam, so you know you're studying the smart way. Whether you're cramming for the test at the last minute, looking for extra review, or want to study on your own in preparation for the exams - this is the study guide every AP* Chemistry student must have. When it's crucial crunch time and your Advanced Placement* exam is just around the corner, you need REA's Crash Course for AP* Chemistry!

Providing must-have knowledge for the pharmaceutical industry and process chemists in industry, this ready reference offers solutions for saving time and money and supplying -- in a sustainable way -- valuable products. Application-oriented and well structured, each chapter presents successful strategies for the latest modern drugs, showing how to provide very fast bulk quantities of drug candidates. Throughout, the text illustrates how all the key factors are interwoven and dependent on one another in creating optimized methods for optimal products.

Surface Chemistry of Solid and Liquid Interfaces

From Molecules to Applications

Organic Chemistry of Explosives

Environmental Organic Chemistry

The CLEP Chemistry

From the Atom to Extended Systems

This is part one of two for Chemistry by OpenStax. This book covers chapters 1-11. Chemistry is designed for the two-semester general chemistry course. For many students, this course provides the foundation to a career in chemistry, while for others, this may be their only college-level science course. As such, this textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them. The text has been developed to meet the scope and sequence of most general chemistry courses. At the same time, the book includes a number of innovative features designed to enhance student learning. A strength of Chemistry is that instructors can customize the book, adapting it to the approach that works best in their classroom. The images in this textbook are grayscale.

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.

Introductory Chemistry creates light bulb moments for students and provides unrivaled support for instructors! Highly visual, interactive multimedia tools are an

extension of Kevin Revell's distinct author voice and help students develop critical problem solving skills and master foundational chemistry concepts necessary for success in chemistry.

At long last: The second, completely revised edition of this comprehensive standard reference. Alwyn G. Davies has updated the contents of his book to reflect the current state of research into organotin chemistry. He covers all aspects in detail, such as its synthesis, characterization, structures and applications, while also devoting space to such hot topics as environmental issues. This new edition also includes a CD-ROM with more than 5,000 references, making this database an invaluable tool for everyone working in the field. "The text is well written, extremely accessible and very comprehensive: particularly impressive is the inclusion of up-to-the-minute references in these areas..." - Advanced Materials, 13 (1998) "The standard of production is very good, with well-structured tables and an abundance of clear formula schemas, which enable the reader to quickly grasp the essence of the text." - Angewandte Chemie 16, 1997

An Introduction to the Chemistry of Natural and Engineered Aquatic Systems
IB Chemistry Course Book

Introduction to Reticular Chemistry

Frontiers and Foundations from a Global and Molecular Perspective

Principles, Patterns, and Applications

Loose-leaf Version for Introductory Chemistry

This book comprehensively describes the development and practice of DNA-encoded library synthesis technology. Together, the chapters detail an approach to drug discovery that offers an attractive addition to the portfolio of existing hit generation technologies such as high-throughput screening, structure-based drug discovery and fragment-based screening. The book: Provides a valuable guide for understanding and applying DNA-encoded combinatorial chemistry Helps chemists generate and screen novel chemical libraries of large size and quality Bridges interdisciplinary areas of DNA-encoded combinatorial chemistry – synthetic and analytical chemistry, molecular biology, informatics, and biochemistry Shows medicinal and pharmaceutical chemists how to efficiently broaden available “ chemical space ” for drug discovery Provides expert and up-to-date summary of reported literature for DNA-encoded and DNA-directed chemistry technology and methods

This book is an eminently readable introduction to structure and bonding in transition metal chemistry. Owing to its non- mathematical and highly visual approach, it is one of the most accessible texts on the role of the valence shell in d-block chemistry. Topics covered include * stability and reactivity of transition metal compounds in their various oxidation states * spectroscopic properties * magnetic properties Additional details and special topics are discussed in boxed sections within the text. This book will be invaluable to students and instructors alike for its non-mathematical account of key concepts and as a source of explanations and references to sources of further information.

Principles, Reactions, and Applications

Metal-Organic Frameworks and Covalent Organic Frameworks

Contemporary Carbene Chemistry

Chemistry: An Atoms First Approach

Organophosphorus Chemistry