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# Modern Aspects of Main Group Chemistry



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Michael Lattman and Richard A. Kemp

# Modern Aspects Of Main Group Chemistry

**Vladimir Ya. Lee, Akira Sekiguchi**



## **Modern Aspects Of Main Group Chemistry:**

**Modern Aspects of Main Group Chemistry** Michael Lattman, Richard Alan Kemp, 2006 The last twenty years has seen a resurgence in main group chemistry from the fundamental breakthroughs involving multiple bonding in silicon phosphorus and other heavier elements to the present day applications in materials and nanotechnology Main group compounds are used in the synthesis of nano and mesoporous materials via sol gel methods particularly in silicate chemistry and in the preparation of materials such as boron nitrides and chemically modified single walled nanotubes Ceramics and dense materials are almost all made using oxides carbides nitrides or borides Inorganic polymers such as polyphosphazenes semiconductor group 13 15 14 16 compounds coatings catalysts all are important aspects of main group chemistry The contents of this book cover a broad range of main group chemistry from the fundamental to the applied **Comprehensive Inorganic Chemistry II**, 2013-07-23 Comprehensive Inorganic Chemistry II Nine Volume Set reviews and examines topics of relevance to today's inorganic chemists Covering more interdisciplinary and high impact areas Comprehensive Inorganic Chemistry II includes biological inorganic chemistry solid state chemistry materials chemistry and nanoscience The work is designed to follow on with a different viewpoint and format from our 1973 work Comprehensive Inorganic Chemistry edited by Bailar Emel us Nyholm and Trotman Dickenson which has received over 2 000 citations The new work will also complement other recent Elsevier works in this area Comprehensive Coordination Chemistry and Comprehensive Organometallic Chemistry to form a trio of works covering the whole of modern inorganic chemistry Chapters are designed to provide a valuable long standing scientific resource for both advanced students new to an area and researchers who need further background or answers to a particular problem on the elements their compounds or applications Chapters are written by teams of leading experts under the guidance of the Volume Editors and the Editors in Chief The articles are written at a level that allows undergraduate students to understand the material while providing active researchers with a ready reference resource for information in the field The chapters will not provide basic data on the elements which is available from many sources and the original work but instead concentrate on applications of the elements and their compounds Provides a comprehensive review which serves to put many advances in perspective and allows the reader to make connections to related fields such as biological inorganic chemistry materials chemistry solid state chemistry and nanoscience Inorganic chemistry is rapidly developing which brings about the need for a reference resource such as this that summarise recent developments and simultaneously provide background information Forms the new definitive source for researchers interested in elements and their applications completely replacing the highly cited first edition which published in 1973 **Organo Main Group Chemistry** Kin-ya Akiba, 2011-08-23 Forging a new association main group elements and organic chemistry Covering the essentials of all main group elements in organic chemistry along with the synthesis and reactions of their organic compounds in just one volume Organo Main Group Chemistry breaks important new ground While

main group chemistry has traditionally been classified as part of inorganic chemistry this book establishes the organic chemistry of main group elements for the first time The organic compounds of elements in the second period of the periodic table which are centered around carbon are the major components of animals and plants while those in the third period and below also play key roles worthy of discussion when studying main group element chemistry The major chapters describe synthesis and reactivity of organic compounds in the third period and below and are arranged according to the order of the periodic table Starting with the role of lithium and magnesium cations the chapters reach fluorine and iodine compounds The first two chapters summarize the unique and common characteristics of main group elements in relation to carbon The latter chapters deal with modern topics that address the unique characteristics of organo main group compounds Suitable for professional researchers chemistry professors and advanced students **Organo Main Group Chemistry presents a novel new approach to the way we view both main groups and organic chemistry itself**

**Inorganic Chemistry of the Main-Group Elements** C C Addison, 2007-10-31 Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued The current list of Specialist Periodical Reports can be seen on the inside flap of this volume *Introduction to Modern Inorganic Chemistry, 6th edition* R.A. Mackay, W. Henderson, 2017-12-21 This popular and comprehensive textbook provides all the basic information on inorganic chemistry that undergraduates need to know For this sixth edition the contents have undergone a complete revision to reflect progress in areas of research new and modified techniques and their applications and use of software packages *Introduction to Modern Inorganic Chemistry* begins by explaining the electronic structure and properties of atoms then describes the principles of bonding in diatomic and polyatomic covalent molecules the solid state and solution chemistry Further on in the book the general properties of the periodic table are studied along with specific elements and groups such as hydrogen the s elements the lanthanides the actinides the transition metals and the p block Simple and advanced examples are mixed throughout to increase the depth of students understanding This edition has a completely new layout including revised artwork case study boxes technical notes

and examples All of the problems have been revised and extended and include notes to assist with approaches and solutions It is an excellent tool to help students see how inorganic chemistry applies to medicine the environment and biological topics

**Main Group Chemistry** W. Henderson, 2000 Main Group Chemistry covers the chemistry of the s and p block elements together with a brief chapter on the chemistry of zinc cadmium and mercury often classified as main group elements rather than as transition elements The Periodic Table is an important predictive tool in main group chemistry and in this book forms the basis for describing the trends and variations in the chemistry of the elements Introductory material covers the basic principles behind the Periodic Table bonding electronegativity and VSEPR Valence Shell Electron Pair Repulsion theory The chemistry of various groups of elements is then discussed The book incorporates a valuable chapter on inorganic polymers discussing the chemistry of materials such as silicates silicones phosphazenes and diamond Additional material is available on the website at [www.rsc.org/tct](http://www.rsc.org/tct) Ideal for the needs of undergraduate chemistry students Tutorial Chemistry Texts is a major series consisting of short single topic or modular texts concentrating on the fundamental areas of chemistry taught in undergraduate science courses Each book provides a concise account of the basic principles underlying a given subject embodying an independent learning philosophy and including worked examples [Advances in Organometallic Chemistry](#)

, 1975-08-22 **Advances in Organometallic Chemistry** **New Polymeric Materials Based on Element-Blocks** Yoshiki Chujo, 2018-12-22 This book introduces the recent progress that has resulted from utilizing the idea of element block polymers A structural unit consisting of various groups of elements is called an element block The design and synthesis of new element blocks polymerization of these blocks and development of methods of forming higher order structures and achieving hierarchical interface control in order to yield the desired functions are expected to result in manifold advantages These benefits will encourage the creation of new polymeric materials that share at a high level electronic optical and magnetic properties not achievable with conventional organic polymeric materials as well as forming properties of molding processability and flexible designability that inorganic materials lack By pioneering innovative synthetic processes that exploit the reactivity of elements and the preparation techniques employed for inorganic element blocks the aim is 1 to create a new series of innovative polymers based on the novel concept of element block polymers in which the characteristics of elements are extensively combined and utilized and 2 to formulate theories related to these polymers This book demonstrates especially the design strategies and the resulting successful examples offering highly functional materials that utilize element block polymers as a key unit [Collected Papers on Philosophy of Chemistry](#) Eric R. Scerri, 2008 This book represents a collection of papers from one of the founders of the new Philosophy of Chemistry It is only the second single author collection of papers on the Philosophy of Chemistry The author is the editor in chief of Foundations of Chemistry the leading journal in the field He has recently gained worldwide success with his book on the periodic table of the elements titled The Periodic Table Its Story and Its Significance This volume provides an in depth examination of his more

philosophical and historical work in this area and further afield      *Inorganic Chemistry of the Main-group Elements*, 1973

**S. Chand's ICSE Chemistry Book II For Class X (2021 Edition)** R.D.MADAN, S Chand s ICSE Chemistry for Class X is strictly in accordance with the latest syllabus prescribed by the Council for the Indian School Certificate Examinations CISCE New Delhi The book aims at simplifying the content matter and give clarity of concepts so that the students feel confident about the subject as well as the competitive exams      *Nuclear Magnetic Shieldings and Molecular Structure* J. A. Tossell, 2012-12-06 Modern approaches to the theoretical computation and experimental determination of NMR shielding tensors are described in twenty nine papers based on lectures presented at the NATO ARW All of the most popular computational methods are reviewed and recent progress is described in their application to chemical biochemical geochemical and materials science problems Experimental studies on NMR shieldings in gases liquids and solids are also included with special emphasis placed upon the relationship between NMR shielding and geometric structure and upon tests of the accuracy of the various computational methods Qualitative MO schemes and semiempirical approaches are also considered in light of the computational results This is a valuable book for anyone interested in how the NMR shielding tensor can be used to determine the geometric and electronic structures of molecules and solids abstract Modern methods for computing and measuring nuclear magnetic resonance shielding tensors are described in papers by a great number of leaders in the field The most popular methods for quantum mechanically calculating NMR shielding tensors are reviewed and many applications of these methods are described to problems in chemistry biochemistry geochemistry and materials science The focus of the papers is on the relationship of the NMR shielding tensor to the geometric and electronic structure of molecules or solids      **Handbook of the Chemical Elements** Hermann Sicius, 2024-10-28 This reference work describes comprehensively compactly and precisely the history properties production and application of all elements of the periodic table Particular attention is paid to the chemical compounds of the elements which are also presented extensively This book contains 23 chapters each of which includes the elements in the form of subchapters of the eight main groups the first and second as well as the fourth to tenth subgroups the rare earth metals and the third subgroup as well as the actinides Finally there is an outlook on the as yet undiscovered elements of the eighth and ninth periods on alternative more environmentally friendly drives for motor vehicles such as batteries and fuel cells as well as on semiconductor technology i e areas that will continue to see increasing research activity in the future Whenever possible the author has always maintained the order of chalcogenides halides pnictogenides and other compounds when presenting the chemical compounds of the elements The introductory part which illuminates the history of the respective element often contains biographies of well known researchers whose creative periods range from the near past to the Middle Ages You will not only find portraits of chemists but also of nuclear physicists astronomers and medical doctors      *Periodicity and the S- and P- Block Elements* Nicholas C. Norman, 2021 The renowned Oxford Chemistry Primers series which provides focused introductions to a range of important

topics in chemistry has been refreshed and updated to suit the needs of today's students, lecturers and postgraduate researchers. The rigorous yet accessible treatment of each subject area is ideal for those wanting a primer in a given topic to prepare them for more advanced study or research. Moreover, cutting edge examples and applications throughout the texts show the relevance of the chemistry being described to current research and industry. The learning features provided, including end of chapter questions and online multiple choice questions, encourage active learning and promote understanding. Furthermore, frequent diagrams, margin notes, further reading and glossary definitions all help to enhance a student's understanding of these essential areas of chemistry. This new and updated edition of Periodicity and the s and p Block Elements provides a compelling and accessible introduction to key periodic trends found within the s and p blocks of the periodic table and includes coverage of the elements themselves as well as the compounds they form. Additional chapters focus on acidity and basicity as well as on structure. The final chapter is entirely new to the second edition and contains a critical examination of many theories, models and approaches to the study of the ideas explored in the book. Digital formats and resources: The second edition is available for students and institutions to purchase in a variety of formats and is supported by online resources. The e-book offers a mobile experience and convenient access along with functionality, tools, navigation features and links that offer extra learning support. [www.oxfordtextbooks.co.uk/ebooks](http://www.oxfordtextbooks.co.uk/ebooks). Online resources include multiple choice questions for students to check their understanding and for registered adopters, figures and tables from the book.

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Collected Papers On The Philosophy Of Chemistry Eric R Scerri, 2008-06-09 This book represents a collection of papers from one of the founders of the new Philosophy of Chemistry It is only the second single author collection of papers on the Philosophy of Chemistry The author is the editor in chief of Foundations of Chemistry the leading journal in the field He has recently gained worldwide success with his book on the periodic table of the elements titled The Periodic Table Its Story and Its Significance This volume provides an in depth examination of his more philosophical and historical work in this area and further afield

Organometallic Compounds of Low-Coordinate Si, Ge, Sn and Pb Vladimir Ya. Lee, Akira Sekiguchi, 2011-07-22 Until recently the low coordinate compounds of the heavier elements of group 14 were known only as transient unstable species which were difficult to isolate However recent developments have led to the stabilisation of these compounds and today heavier group 14 element cations radicals anions carbene analogues alkene and alkyne analogues and aromatics have all been prepared as highly reactive stable fully characterizable and readily available organometallic reagents Organometallic Compounds of Low Coordinate Si Ge Sn and Pb describes the chemistry of this exciting new class of organometallics with an emphasis on their major similarities and differences with the analogous species in organic chemistry Topics covered include the synthesis structure reactions and synthetic applications of Si Ge Sn and Pb centered cations radicals and anions heavy analogues of carbenes silylenes germylenes stannylene and plumbylenes heavy analogues of alkenes disilenes digermenes distannenes diplumbenes heavy analogues of alkynes disilynes digermynes distannynes diplumbynes and their valence isomers heteronuclear derivatives silenes germenes stannenes silagermenes silastannenes germastannenes heavy analogues of alkenes of the type E14 E13 E14 E15 E14 E16 where E13 E14 E15 and E16 are elements of the groups 13 14 15 and 16 cyclic compounds three four five and six membered rings heavy analogues of 1 3 dienes allenes and other cumulenes heavy analogues of aromatic compounds including a comparison between organometallic and organic aromaticity Organometallic Compounds of Low Coordinate Si Ge Sn and Pb is an essential guide to this emerging class of organometallic reagents for researchers and students in main group organometallic synthetic and silicon chemistry



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