



Modern Perspectives in Inorganic Crystal Chemistry

Edited by
Erwin Parthé

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Modern Perspectives In Inorganic Crystal Chemistry

**Alan Francis Williams, Carlo
Floriani, André E. Merbach**



Modern Perspectives In Inorganic Crystal Chemistry:

Modern Perspectives in Inorganic Crystal Chemistry Erwin Parthe, 2014-01-15 **Modern Perspectives in Inorganic Crystal Chemistry** Erwin Parthé, 1992 This book contains the contributions of 13 well known specialists in the field of solid state chemistry who had been invited as lecturers at a 1992 NATO Advanced Study Institute in Erice Sicily The chapters of a more general character concern the use of the space group subgroup relationships for the recognition of structure families the crystal chemical formulae which is a way of denoting simple crystal chemical information in a condensed form the concepts of atom coordination atom volume and charge transfer and the physicist's view of the bond strength in the solid which is measured by the crystal orbital overlap population It is demonstrated for the case of ionic compounds that the bond valence method is superior to the old sum of radii method for the prediction of interatomic distances **Inorganic**

Structural Chemistry Ulrich Müller, 2007-09-27 The essential introduction to the understanding of the structure of inorganic solids and materials This revised and updated 2nd Edition looks at new developments and research results within Structural Inorganic Chemistry in a number of ways special attention is paid to crystalline solids elucidation and description of the spatial order of atoms within a chemical compound Structural principles of inorganic molecules and solids are described through traditional concepts modern bond theoretical theories as well as taking symmetry as a leading principle

Inorganic Chemistry in Focus III Gerd Meyer, Dieter Naumann, Lars Wesemann, 2006-12-13 Metal clusters are on the brink between molecules and nanoparticles in size With molecular nano scale metallic as well as non metallic aspects metal clusters are a growing interdisciplinary field with numerous potential applications in chemistry catalysis materials and nanotechnology This third volume in the series of hot topics from inorganic chemistry covers all recent developments in the field of metal clusters with some 20 contributions providing an in depth view The result is a unique perspective illustrating all facets of this interdisciplinary area Inter electron Repulsion and Irregularities in the Chemistry of Transition Series Stereochemical Activity of Lone Pairs in Heavier Main Group Element Compounds How Close to Close Packing Forty Five Years of Praseodymium Diiodide Centered Zirconium Clusters Titanium Niobium Oxychlorides Trinuclear Molybdenum and Tungsten Cluster Chalcogenides Current State of B C N Compounds of Calcium and Lanthanum Ternary Phases of Lithium with Main Group and Late Transition Metals Polar Intermetallics and Zintl Phases along the Zintl Border Rare Earth Zintl Phases Structure Property Relationships in Intermetallics Ternary and Quaternary Niobium Arsenide Zintl Phases The Building Block Approach to Understanding Main Group Metal Complex Structures Cation Deficient Quaternary Thiospinels A New Class of Hybrid Materials via Salt Inclusion Synthesis Layered Perrhenate and Vanadate Hybrid Solids Hydrogen Bonding in Metal Halides Syntheses and Catalytic Properties of Titanium Nitride Nanoparticles Solventless Thermolysis New Potential Scintillation Materials in Borophosphate Systems With its didactical emphasis this volume addresses a wide readership such that both students and specialists will profit from the expert contributions *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, Emelius, 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 summarises 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. *Advances in Inorganic Chemistry*, 1997-01-16 Advances in Inorganic Chemistry presents timely and informative summaries of the current progress in a variety of subject areas within inorganic chemistry, ranging from bioinorganic to solid state. This acclaimed series features reviews written by experts in the area and is an indispensable reference to advanced researchers. Each volume of Advances in Inorganic Chemistry contains an index and each chapter is fully referenced. Study of New Ternary Rare-Earth Intermetallic Germanides with Polar Covalent Bonding, Riccardo Freccero, 2020-11-16 The thesis focuses on the syntheses, structural characterizations, and chemical bonding analyses for several ternary R-M-Ge (R: rare earth metal, M: another metal, intermetallics). The challenges in understanding the main interactions governing the chemistry of these compounds, which lead to our inability to predict their formation, structure, and properties, are what provided the motivation for this study. In particular, the R_2MGe_6 (M: Li, Mg, Al, Cu, Zn, Pd, Ag), R_4MGe_{10} (x: M: Li, Mg), $R_2Pd_3Ge_5$, $Lu_5Pd_4Ge_8$, $Lu_3Pd_4Ge_4$, and Yb_2PdGe_3 phases were synthesized and structurally characterized. Much effort was put into the stabilization of metastable phases employing the innovative metal flux method and into the accurate structure solution of twinned crystals. Cutting edge position space chemical bonding techniques were combined with new methodologies conceived to correctly describe the Ge-M-Ge-La

and also La M polar covalent interactions for the La₂MGe₆ M Li Mg Al Cu Zn Pd Ag series The present results constitute a step forward in our comprehension of ternary germanide chemistry as well as providing a good playground for further investigations

Advances in Organic Corrosion Inhibitors and Protective Coatings Ioannis Kartsonakis, 2021-09-01 The interaction of metal with its environment that results in its chemical alteration is called metallic corrosion According to the literature corrosion is classified to two types uniform and localized corrosion Intervention in either in the alloy environment or in the alloy structure can provide the corrosion protection of metallic materials Furthermore the interference in the metal alloy environment can be conducted with the utilization of cathodic or anodic protection via the corresponding inhibitors Therefore the most common categorization is cathodic anodic and mixed type inhibitors taking into account which half reaction they suppress during corrosion phenomena The majority of the organic inhibitors are of mixed type and perform through chemisorption In order to update the field of the corrosion protection of metal and metal alloys with the use of organic inhibitors a Special Issue entitled *Advances in Organic Corrosion Inhibitors and Protective Coatings* is introduced This book gathers and reviews a collection of ten contributions nine articles and one review from authors from Europe Asia and Africa that were accepted for publication in this Special Issue of Applied Sciences

Modular Aspects of Minerals Stefano Merlino, 1997-01-01 *Rare Earths-Transition Metals-Boron Compounds* Emil Burzo, 2023-06-10 This book presents advances in the field of rare earth R transition metal M boron compounds with extensive references Since titanium and scandium do not form compounds with rare earths the Sc Ti M B series are additionally presented In each chapter the crystal structures the complex physical properties as determined from neutron diffraction magnetic measurements resonance studies transport properties and band structure calculations are critically analyzed The models used in describing the experimental evidence are also presented Tables with the main properties of the R M B compounds are given and representative data are illustrated in figures In this way the book provides state of the art knowledge and a valuable analysis of up to date results in the field The technical applications as permanent magnets thermoelectric and magnetocaloric devices hydrogen storage are also highlighted along with the authors insights into future directions in the field The book is of interest for scientists involved in the development of the field as well as those working in the technical uses of rare earth compounds

Crystallography of Modular Materials Giovanni Ferraris, Emil Makovicky, Stefano Merlino, 2004-03-25 This is the first book to provide a comprehensive treatment of theories and applications in the rapidly expanding field of the crystallography of modular materials Molecules are the natural modules from which molecular crystalline structures are built Most inorganic structures however are infinite arrays of atoms and some kinds of surrogate modules e g coordination polyhedra are usually used to describe them In recent years the attention has been focused on complex modules as the basis for a systematic description of polytypes and homologous polysomatic series modular structures This representation is applied to the modelling of unknown structures and understanding nanoscale defects and intergrowths in materials The Order Disorder OD

theory is fundamental to developing a systematic theory of polytypism dealing with those structures based on both ordered and disordered stacking of one or more layers Twinning at both unit cell and micro scale together with disorder causes many problems demons for computer based methods of crystal structure determination This book develops the theory of twinning with the inclusion of worked examples converting the demons into useful indicators for unravelling crystal structure In spite of the increasing use of the concepts of modular crystallography for characterising understanding and tailoring technological crystalline materials this is the first book to offer a unified treatment of the results which are spread across many different journals and original papers published over the last twenty years

TYPIX — Standardized Data and Crystal Chemical Characterization of Inorganic Structure Types Erwin Parthé, Louise Gelato, Bernard Chabot, Marinella Penzo, Karin Cenxual, Roman Gladyshevskii, 2013-11-11 TYPIX is a critical compilation of crystallographic data prepared by E Parth at the University of Geneva It contains over 3200 compounds representative of the structure types found among inorganic compounds This work contains condensed crystal chemical information about individual structure types as well as an extensive chapter on the crystal chemistry of particular structure families The aim of the compilation is to clarify and classify published data for intermetallic and other inorganic structures types found exclusively with halides or oxides are only included for a few special cases It provides a tool for additional crystal chemical studies and the development of new materials

Intermetallic Chemistry Riccardo Ferro, Adriana Saccone, 2011-08-26 Intermetallic science is closely related to physics chemistry metallurgy materials science technology and engineering This book emphasizes the chemical aspects of this science and therefore the mutual reactivity of metals and the characteristics of intermetallic compounds Topics included are Phase diagrams of alloy systems Many intermetallic systems form several compounds generally not obeying common simple stoichiometric rules which are often homogeneous in a certain range of compositions The stability and extension of these phases are conveniently presented through phase diagrams Selected aspects of intermetallics structural chemistry with emphasis on the solid state The general structural characteristics of intermetallic phases are considered with attention to nomenclature and to alternative and complementary methods of presenting crystal chemical data A brief account is given of derivative and degenerate structures modular aspects of crystal structures and of a few special groups of alloys such as quasicrystals and amorphous alloys A number of selected structural prototypes with typical features their possible grouping in structural families and their distribution among different types of alloys are provided Intermetallic reactivity trends in the Periodic Table Attention is given to a few selected elemental parameters such as electron configuration and valence electron number and to their changes along the Table which act as reference factors of the intermetallic behaviour As an example the relationships are considered between crystal structure and the number of valence electrons per atom or per formula in various classes of compounds or solid solution phases Alloying behaviour systematics of intermetallic systems with a description of the intermetallic reactivity of each element or group of elements in the order of their position in the Periodic

Table For each pair of metallic elements their capability to form intermediate phases is summarised by maps and schemes A description of small scale preparation methods of intermetallics A number of interesting and significant peculiarities are e g those related to their high melting points insolubility in common solvents etc Systematic treatment of alloying behaviour Wide overview of intermetallic chemistry Illustrated with many examples

Sulfide Mineralogy and Geochemistry David J. Vaughan, 2018-12-17 Volume 61 of Reviews in Mineralogy and Geochemistry presents an up to date review of sulfide mineralogy and geochemistry The crystal structures electrical and magnetic properties spectroscopic studies chemical bonding thermochemistry phase relations solution chemistry surface structure and chemistry hydrothermal precipitation processes sulfur isotope geochemistry and geobiology of metal sulfides are reviewed Where it is appropriate for comparison there is brief discussion of the selenide or telluride analogs of the metal sulfides When discussing crystal structures and structural relationships the sulfosalt minerals as well as the sulfides are considered in some detail

Physical Metallurgy R.W. Cahn, P. Haasen, 1996-02-09 This is the fourth edition of a work which first appeared in 1965 The first edition had approximately one thousand pages in a single volume This latest volume has almost three thousand pages in 3 volumes which is a fair measure of the pace at which the discipline of physical metallurgy has grown in the intervening 30 years Almost all the topics previously treated are still in evidence in this version which is approximately 50% bigger than the previous edition All the chapters have been either totally rewritten by new authors or thoroughly revised and expanded either by the third edition authors alone or jointly with new co authors Three chapters on new topics have been added dealing with dry corrosion oxidation and protection of metal surfaces the dislocation theory of the mechanical behavior of intermetallic compounds and most novel a chapter on polymer science for metallurgists which analyses the conceptual mismatch between metallurgists and polymer scientists way of looking at materials Special care has been taken throughout all chapters to incorporate the latest experimental research results and theoretical insights Several thousand citations to the research and review literature are included in this edition There is a very detailed subject index as well as a comprehensive author index The original version of this book has long been regarded as the standard text in physical metallurgy and this thoroughly rewritten and updated version will retain this status

Perspectives in Coordination Chemistry Alan Francis Williams, Carlo Floriani, André E. Merbach, 1992 In the hundred years since Alfred Werner proposed his theory of coordination compounds coordination chemistry has grown to occupy a central position in chemical science This book contains a selection of essays illustrating the state of the subject as it enters its second century In addition to methods of synthesis and studies of structure and reactivity particular attention is paid to the applications of coordination chemistry in fields as varied as biochemistry and medicine organometallic chemistry solid state chemistry catalysis and molecular receptors and devices

Phasing in Crystallography Carmelo Giacovazzo, 2014 The book describes phasing techniques in modern crystallography The main text is dedicated to their simple description and further mathematical details are contained in the

appendices Practical aspects are described for each specific method making it a useful tool for the daily work of practising crystallographers

Ideas in Chemistry and Molecular Sciences Bruno Pignataro, 2010-04-16 Written by some of the most talented young chemists in Europe this text covers most of the groundbreaking issues in chemistry It provides an account of the latest research results in European chemistry based on a selection of leading young scientists participating in the 2008 European Young Chemists Award competition The contributions range from self organization to new catalytic synthetic methodologies to organocatalysis In addition the authors provide a current overview of their field of research and a preview of future directions For organic catalytic natural products and biochemists

Alloy Physics Wolfgang Pfeiler, 2008-01-08 Covering the latest research in alloy physics together with the underlying basic principles this comprehensive book provides a sound understanding of the structural changes in metals and alloys ranging from plastic deformation deformation dynamics and ordering kinetics right up to atom jump processes first principle calculations and simulation techniques Alongside fundamental topics such as crystal defects phase transformations and statistical thermodynamics the team of international authors treats such hot areas as nano size effects interfaces and spintronics as well as technical applications of modern alloys like data storage and recording and the possibilities offered by materials design

Prussian Blue-Type Nanoparticles and Nanocomposites: Synthesis, Devices, and Applications Yannick Guari, Joulia Larionova, 2019-04-18 Nanochemistry tools aid the design of Prussian blue and its analogue nanoparticles and nanocomposites The use of such nanomaterials is now widely regarded as an alternative to other inorganic nanomaterials in a variety of scientific applications This book after addressing Prussian blue and its analogues in a historical context and their numerous applications over time compiles and details the latest cutting edge scientific research on these nanomaterials It compiles and details the latest cutting edge scientific research on these nanomaterials The book provides an overview of the methodological concepts of the nanoscale synthesis of Prussian blue and its analogues as well as the study and understanding of their properties and of the extent and diversity of application fields in relation to the major societal challenges of the 21st century on energy environment and health

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