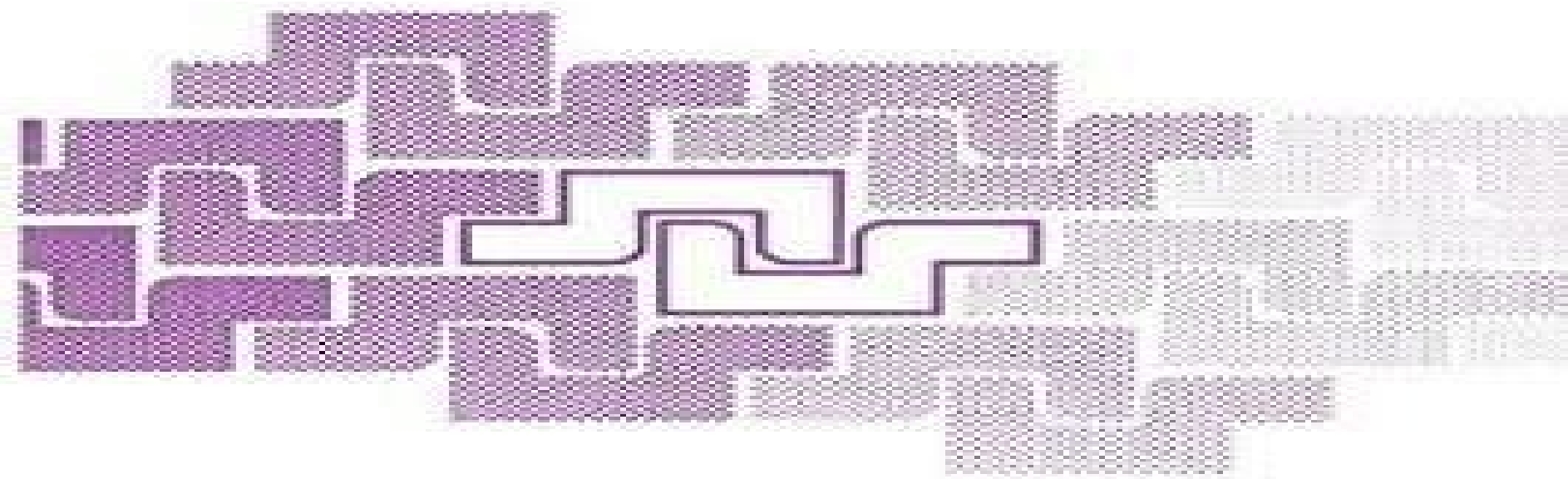




Modern Perspectives in Inorganic Crystal Chemistry

Edited by

Erwin Parthé

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Modern Perspectives In Inorganic Crystal Chemistry

**Gerd Meyer, Dieter Naumann, Lars
Wesemann**



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, 2012-10-18 The study of crystal structures has had an ever increasing impact on many fields of science such as physics chemistry biology materials science medicine pharmacy metallurgy mineralogy and geology Particularly with the advent of direct methods of structure determination the data on crystal structures are accumulating at an unbelievable pace and it becomes more and more difficult to oversee this wealth of data A crude rationalization of the structures of organic compounds and the atom coordinations can be made with the well known Kekule model however no such generally applicable model exists for the structures of inorganic and particularly intermetallic compounds There is a need to rationalize the inorganic crystal structures to find better ways of describing them of denoting the geometrical relationships between them of elucidating the electronic factors and of explaining the bonding between the atoms with the aim of not only having a better understanding of the known structures but also of predicting structural features of new compounds

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 Oxichlorides 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 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 *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 **Modular Aspects of Minerals** Stefano Merlino, 1997-01-01

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 serial 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 La_2MGe_6 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 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

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