

Solid State Chemistry: Synthesis, Structure, and Properties of Selected Oxides and Sulfides

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Solid State Chemistry Synthesis Structure And Properties Of Selected Oxides And Sulfides

Daniel Gerard Colombo



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Solid State Chemistry Aaron Wold, Kirby Dwight, 2012-12-06 The subject matter of solid state chemistry lies within the spheres of both physical and inorganic chemistry. In addition, there is a large overlap with solid state physics and materials engineering. However, solid state chemistry has still to be recognized by the general body of chemists as a legitimate subfield of chemistry. The discipline is not even well defined as to content and has many facets that make writing a textbook a formidable task. The early studies carried out in the United States by Roland Ward and his co-workers emphasized the synthesis of new materials and the determination of their structure. His work on doped alkaline earth sulfides formed the basis for the development of infrared phosphors and his pioneering studies on oxides were important in understanding the structural features of both the perovskite oxides as well as the magnetoplumbites. In 1945 A. F. Wells published the first edition of *Structural Inorganic Chemistry*. This work attempts to demonstrate that the synthesis, structure, and properties of solids form an important part of inorganic chemistry. Now, after almost 50 years during which many notable advances have been made in solid state chemistry, it is still evident that the synthesis, structure, determination, and properties of solids receive little attention in most treatments of inorganic chemistry. The development of the field since the early studies of Roland Ward in the early 1940s has been rapid.

Solid State Chemistry Lesley E. Smart, Elaine A. Moore, 1995-06-27 Intended for first and second year undergraduates, this introduction to solid state chemistry includes practical examples of applications and modern developments to offer students the opportunity to apply their knowledge in real life situations. It aims to provide students with a thorough understanding of the traditional knowledge of crystal structures, lattices, unit cells, close packing, and octahedral and tetrahedral holes and their occupation by various ions in the well-known crystal structures. This descriptive work is augmented by free electron and band theory. Links to other branches of chemistry and practical examples are emphasized, as are the links back to band theory and crystal structures. For this second edition, the book has been updated throughout and has two new chapters: one on X-ray diffraction techniques and another on solid state preparative methods, as well as new sections on symmetry and ferroelectrics.

Solid State Chemistry and its Applications Anthony R. West, 2014-01-08 *Solid State Chemistry and its Applications* 2nd Edition Student Edition is an extensive update and sequel to the bestselling textbook *Basic Solid State Chemistry*, the classic text for undergraduate teaching in solid state chemistry worldwide. Solid state chemistry lies at the heart of many significant scientific advances from recent decades, including the discovery of high temperature superconductors, new forms of carbon, and countless other developments in the synthesis, characterisation, and applications of inorganic materials. Looking forward, solid state chemistry will be crucial for the development of new functional materials in areas such as energy catalysis and electronic materials. This revised edition of *Basic Solid State Chemistry* has been completely rewritten and expanded to present an up-to-date account of the essential topics and recent developments in this exciting field of inorganic chemistry. Each section commences with a gentle

introduction covering basic principles progressing seamlessly to a more advanced level in order to present a comprehensive overview of the subject This new Student Edition includes the following updates and new features Expanded coverage of bonding in solids including a new section on covalent bonding and more extensive treatment of metallic bonding Synthetic methods are covered extensively and new topics include microwave synthesis combinatorial synthesis mechano synthesis atomic layer deposition and spray pyrolysis Revised coverage of electrical magnetic and optical properties with additional material on semiconductors giant and colossal magnetoresistance multiferroics LEDs fibre optics and solar cells lasers graphene and quasicrystals Extended chapters on crystal defects and characterisation techniques Published in full colour to aid comprehension Extensive coverage of crystal structures for important families of inorganic solids is complemented by access to CrystalMaker visualization software allowing readers to view and rotate over 100 crystal structures in three dimensions Solutions to exercises and supplementary lecture material are available online Solid State Chemistry and its Applications 2nd Edition Student Edition is a must have textbook for any undergraduate or new research worker studying solid state chemistry

Perovskites and Related Mixed Oxides Pascal Granger,Vasile I. Parvulescu,Serge Kaliaguine,Wilfrid Prellier,2016-02-23 This comprehensive handbook and ready reference details all the main achievements in the field of perovskite based and related mixed oxide materials The authors discuss in an unbiased manner the potentials as well as the challenges related to their use thus offering new perspectives for research and development on both an academic and industrial level The first volume begins by summarizing the different synthesis routes from molten salts at high temperatures to colloidal crystal template methods before going on to focus on the physical properties of the resulting materials and their related applications in the fields of electronics energy harvesting and storage as well as electromechanics and superconductivity The second volume is dedicated to the catalytic applications of perovskites and related mixed oxides including but not limited to total oxidation of hydrocarbons dry reforming of methane and denitrogenation The concluding section deals with the development of chemical reactors and novel perovskite based applications such as fuel cells and high performance ceramic membranes Throughout the contributions clearly point out the intimate links between structure properties and applications of these materials making this an invaluable tool for materials scientists and for catalytic and physical chemists

Inorganic Reactions and Methods, The Formation of Bonds to O, S, Se, Te, Po (Part 2) A. D. Norman,2009-09-17 Die langerwartete Komplettierung der Reihe Inorganic Reactions and Methods beginnt jetzt mit der Publikation des 6 Bandes Seit Jahren vielfach in Forschung und Berufsalltag bew hrt behandelt die Reihe alle Gebiete der anorganischen Synthesechemie die Chemie der Elemente Koordinationsverbindungen Donor Acceptor Addukte organometallische Stoffe Polymere und Festk rper sowie bioanorganische Materialien Mit Autoren Sach und Verbindungsregister 07 98

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

Synthesis Methods and Crystallization Riadh Marzouki, 2020-10-07 New crystalline materials organic inorganic hybrid are promising for various applications including electrical piezoelectric ferroelectric magnetic and catalytic processes In addition given their remarkable structural richness these materials exhibit several interesting physical properties such as ionic conduction ion exchange and others Crystal growth morphology and grain size are factors influencing these physical properties This book examines methods of synthesis of the most common crystalline materials and describes nucleation and crystal growth of various materials

Synthesis, Properties and Mineralogy of Important Inorganic Materials Terence E. Warner, 2012-05-14 Intended as a textbook for courses involving preparative solid state chemistry this book offers clear and detailed descriptions on how to prepare a selection of inorganic materials that exhibit important optical magnetic and electrical properties on a laboratory scale The text covers a wide range of preparative methods and can be read as separate independent chapters or as a unified coherent body of work Discussions of various chemical systems reveal how the properties of a material can often be influenced by modifications to the preparative procedure and vice versa References to mineralogy are made throughout the book since knowledge of naturally occurring inorganic substances is helpful in devising many of the syntheses and in characterizing the product materials A set of questions at the end of each chapter helps to connect theory with practice and an accompanying solutions manual is available to instructors This book is also of appeal to postgraduate students post doctoral researchers and those working in industry requiring knowledge of solid state synthesis

Plant Nanobionics Ram Prasad, 2019-09-30 Plant Nanobionics Volume 2 continues the important discussion of nanotechnology in plants but focuses with a focus on biosynthesis and toxicity This book discusses novel approaches to biosynthesis of nanoparticles for the increase of plant production systems controlled release of agrochemicals and management of plant biotic stress Green biosynthesis of metallic nanoparticles from bee propolis artificial photosynthesis and hybrid structures are presented Although engineered nanoparticles have great potential for solving many agricultural and societal problems their consequences on the ecosystems and environment must be responsibly considered This volume aims to contribute to the limited literature on this topic through its comprehensive examination of nanoparticle toxicity on plants microbes and human health Environmental risks with recent data are discussed as well as risks associated with the transfer of nanoparticles through the food chain This volume highlights the study of a mechanistic approach and the study of nanoparticles towards nanobionics The application of polymeric materials for smart packing in the food industry and agriculture sector as well as the future of nanomaterials in detecting soil microbes for environmental remediation are also included

Electrospun Polymers and Composites Yu

Dong, Avinash Baji, Seeram Ramakrishna, 2020-10-24 *Electrospun Polymers and Composites Ultrafine Materials High Performance Fibres and Wearables* reviews the latest technological developments and innovations in electrospun polymers and composites highlighting the multifunctionality of these ultrafine materials as high performance fibers. The book's chapters investigate a wide range of different electrospinning applications including drug delivery, tissue scaffolding, fiber reinforcement, and nanofiltration, with a particular focus on shape memory effect and the wearable characteristics of electrospun polymers and composites. This will be a valuable reference resource for research and for industrial communities working in the field of electrospinning. Covers two important material systems in electrospun materials including electrospun polymers and composites. Emphasizes areas in shape memory effect and wearable features of electrospun polymers and composites. Presents a multidisciplinary work that will attract a wide spectrum of readers in chemical engineering, biomedical engineering, chemistry, pharmacy, environmental science, materials science, and engineering, as well as mechanical and electrical engineering. Handbook of Layered Materials Scott M. Auerbach, Kathleen A. Carrado, Prabir K. Dutta, 2004-03-23 Focusing on layered compounds at the core of materials intercalation chemistry, this reference comprehensively explores clays and other classes of materials exhibiting the ability to pillar or establish permanent intracrystalline porosity within layers. It offers an authoritative presentation of their fundamental properties as well as summaries of Water for Energy and Fuel Production Yatish T. Shah, 2014-05-16 This text describes water's use in the production of raw fuels as an energy carrier (e.g. hot water and steam) and as a reactant, reaction medium, and catalyst for the conversion of raw fuels to synthetic fuels. It explains how supercritical water is used to convert fossil and bio-based feedstock to synthetic fuels in the presence and absence of a catalyst. It also explores water as a direct source of energy and fuel, such as hydrogen from water dissociation, methane from water-based clathrate molecules, and more. Molecular Precursors for Solid State Materials Daniel Gerard Colombo, 1999 *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 Inorganic Reactions and Methods ,1986 *EPDIC 5* R. Delhez, E. J. Mittemeijer, 1998 **Nuclear Science Abstracts** ,1976 **Whitaker's Books in Print** ,1998 *Studies on the Reactivity of Coinage Metals and Rare Earth Metals in Alkali Metal/polytelluride Fluxes* Rhonda Renee Patschke, 1999 *Anorganische Strukturchemie* Ulrich Müller, 2008-10-23 In dem Lehrbuch für Studenten der Chemie werden wichtige Aspekte und Zusammenhänge der Strukturen anorganisch chemischer Verbindungen dargelegt Die Strukturmerkmale von Molekülverbindungen wie auch von Festkörpern werden behandelt und an anschaulichen Beispielen erläutert So weit wie möglich werden diese Strukturen mit einfachen und eingängigen Theorien erklärt Gillespie Nyholm Theorie Ligandenfeldtheorie Ionenradienverhältnisse Pauling Regeln 8 N Regel und es wird aber auch auf die moderne Bindungstheorie eingegangen Wichtige Festkörperstrukturen werden wiederholte Male und dabei jedes Mal von einem anderen Standpunkt betrachtet Zusammenhänge zwischen Struktur und physikalischen Eigenschaften werden herausgearbeitet

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