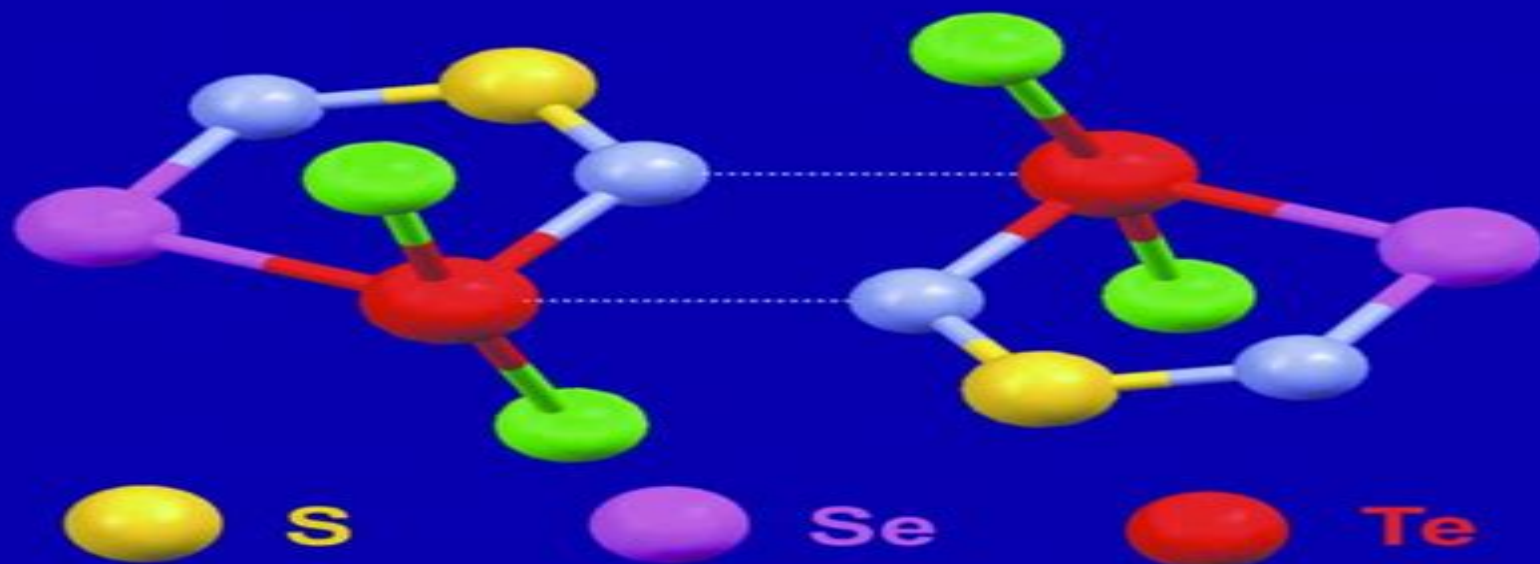


Edited by Francesco A Devillanova

Handbook of Chalcogen Chemistry

New Perspectives in Sulfur, Selenium and Tellurium



Handbook Of Chalcogen Chemistry New Perspectives In Sulfur Selenium And Tellurium

Rachel Sandford



Handbook Of Chalcogen Chemistry New Perspectives In Sulfur Selenium And Tellurium:

Handbook of Chalcogen Chemistry Francesco Devillanova, Wolf-Walther Du Mont, 2013-07-25 The Handbook of Chalcogen Chemistry New Perspectives in Sulfur Selenium and Tellurium provides an overview of recent developments particularly from the last decade on the chemistry of the chalcogen group elements S Se and Te While up to a few decades ago chalcogen chemistry was mainly centred on sulphur in recent years the research based on Se and Te has increased dramatically and has created huge scope for the use of compounds based on this type of chemistry The Handbook is organised into two parts the first of which deals systematically with the chemistry of chalcogens in relation to other group elements in the periodic table It also includes an overview of metal chalcogenides and metal polychalcogenides The second part reflects the interdisciplinary nature of chalcogen chemistry and focuses on biological materials and supramolecular aspects of the field This Handbook gives a comprehensive overview on recent developments over the last decade and is ideal for researchers in the field

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Handbook of Chalcogen Chemistry Royal Society of Chemistry, 2013 **Handbook of Chalcogen Chemistry** Francesco A. Devillanova, 2007 Provides an overview of the developments on the chemistry of the

chalcogen group elements S Se and Te Organised into two parts this book deals systematically with the chemistry of chalcogens in relation to other group elements in the periodic table and also includes an overview of metal chalcogenides and metal polychalcogenides Chalcogen Chemistry Vito Lippolis, Claudio Santi, Eder J. Lenardão, Antonio L. Braga, 2023-02-15

Up until a few decades ago chalcogen chemistry was mainly represented by the chemistry of sulfur containing compounds However with the rise in research around selenium and tellurium compound chemistry the field has developed significantly as it continues to uncover and understand the peculiarities chalcogens exhibit Taking an introductory approach this book is the foundation to the subject that has been long needed Covering organic and inorganic synthesis structural properties coordination chemistry and computational modelling all key classes of chalcogen compounds are illustrated Applications across materials science biology pharmaceutical science and environmental topics highlight to readers the impact of chalcogen chemistry in many aspects of research Edited by international leaders in the field Chalcogen Chemistry brings together contributions from acclaimed researchers around the world This book is ideal for newcomers and established researchers and provides the first building block to uncovering this fascinating field **Selenium and Tellurium**

Reagents Risto Laitinen, Raija Oilunkaniemi, 2019-04-01 Selenium and Tellurium Reagents provides an in depth overview of recent advances on the chemistry of these elements Written by internationally recognized experts it gives insight into the synthesis structure analysis and mechanistic studies of these compounds The book is organized into four parts which reflect the applications of Se and Te reagents in four areas inorganic chemistry organic chemistry materials science and biochemistry **Chalcogen Chemistry** Peter Ndibewu, 2019-02-20 This is a handy textbook comprised of chapters introducing the fundamentals of chalcogen chemistry with a focus on chalcogens and selected derived compounds and or materials with illustrative practical applications These low valent chemistry elements of Group 16 or group VI in the modern periodic table include oxygen O sulfur S selenium Se tellurium Te and polonium Po and they exhibit extremely interesting properties They are endowed with supramolecular and structure bonding reactivities that allow them to form a variety of new compounds with sophisticated characteristics thus making their way into a new era of materials development It is hoped that readers of this textbook with a general background knowledge in chemistry biogeochemistry biochemistry biology food agriculture and also medicine as well as pharmacy will find the chapters enriching in new knowledge An introductory chapter orients readership in this particular field of chemistry with a summative focus on the multidisciplinary approach employed in the compilation of the chapters As such the text is suitable for scientists technologists students as well as those whose major interest is chalcogen chemistry with particular interests in the chalcogen compounds and materials Selenium and Tellurium Chemistry J. Derek Woollins, Risto Laitinen, 2011-07-28 Our knowledge of the chemistry of selenium and tellurium has seen significant progress in the last few decades This monograph comprises contributions from leading scientists on the latest research into the synthesis structure and bonding of novel selenium and tellurium compounds It provides insight into

mechanistic studies of these compounds and describes coordination chemistry involving selenium and tellurium containing ligands Contributions also describe the theoretical and spectroscopic studies of selenium and tellurium compounds Additionally this monograph outlines the applications of selenium and tellurium in biological systems materials science and as reagents in organic synthesis and shows how these applications have been a fundamental driving force behind the research into the inorganic and organic chemistry these fascinating elements

Chalcogen-nitrogen Chemistry: From Fundamentals To Applications In Biological, Physical And Materials Sciences (Updated Edition) Tristram Chivers, Risto S Laitinen, 2021-10-12 Chalcogen nitrogen chemistry involves the study of compounds that exhibit a linkage between nitrogen and sulfur selenium or tellurium atoms Since the publication of A Guide to Chalcogen Nitrogen Chemistry in 2005 the emphasis of investigations of chalcogen nitrogen compounds has advanced from a focus on fundamental studies to the development of practical applications as indicated by the title of this new edition Pharmaceutical applications of organic sulfur nitrogen compounds include drugs for the treatment of various diseases as well as probes for locating tumour cells From a materials perspective carbon containing chalcogen nitrogen heterocycles have applications in everyday devices such as LEDs and solar cells A new technology based on binary sulfur nitrides is being used for fingerprint detection in forensic science As a result this book includes seven new chapters and updates the others with extensive literature coverage of developments since 2005 while retaining earlier seminal results This comprehensive text is essential for anyone working in the field and the four introductory chapters emphasise general concepts that will be helpful to the non specialist The treatment is unique in providing a comparison of sulfur selenium and tellurium compounds Each chapter is designed to be self contained and there are extensive cross references between chapters

Descriptive Inorganic Chemistry James E. House, Kathleen A. House, 2010-09-22 Descriptive Inorganic Chemistry Second Edition covers the synthesis reactions and properties of elements and inorganic compounds for courses in descriptive inorganic chemistry This updated version includes expanded coverage of chemical bonding and enhanced treatment of Buckminster Fullerenes and incorporates new industrial applications matched to key topics in the text It is suitable for the one semester ACS recommended course or as a supplement in general chemistry courses Ideal for majors and non majors the book incorporates rich graphs and diagrams to enhance the content and maximize learning Includes expanded coverage of chemical bonding and enhanced treatment of Buckminster Fullerenes Incorporates new industrial applications matched to key topics in the text

Electrochemistry of Metal Chalcogenides Mirtat Bouroushian, 2010-04-23 The author provides a unified account of the electrochemical material science of metal chalcogenide MCh compounds and alloys with regard to their synthesis processing and applications Starting with the chemical fundamentals of the chalcogens and their major compounds the initial part of the book includes a systematic description of the MCh solids on the basis of the Periodic Table in terms of their structures and key properties This is followed by a general discussion on the electrochemistry of chalcogen species and the principles underlying the

electrochemical formation of inorganic compounds alloys The core of the book offers an insight into available experimental results and inferences regarding the electrochemical preparation and microstructural control of conventional and novel MCh structures It also aims to survey their photoelectrochemistry both from a material oriented point of view and as connected to specific processes such as photocatalysis and solar energy conversion Finally the book illustrates the relevance of MCh materials to various applications of electrochemical interest such as electro catalysis in fuel cells energy storage with intercalation electrodes and ion sensing **Tellurium Chemistry** Bimal Krishna Banik,Sangeeta Bajpai,2022-10-03 Tellurium

a well known chalcogen finds potential applications in various fields from chemistry to other branches of science such as nanotechnology and macromolecular science However its safety must also be taken into consideration when exploring its industrial applications This book explores the breadth of tellurium s applications outlines strategies for industrial use and describes the safety concerns of this element **Metallic Nanomaterials (Part B)** S.S.R. Kumar Challa,2018-11-19 This book presents latest research results on synthesis and application of metallic nanomaterials Fabrication techniques analytic properties as well as theoretical aspects are discussed Size and shape controlled synthesis of silver gold copper ruthenium tellurium selenium and palladium nanoparticles are reviewed Further topics are the synthesis from microplasma and shape control for electrocatalytic applications **Arrow Pushing in Inorganic Chemistry** Abhik Ghosh,Steffen Berg,2014-07-25

Involved as it is with 95% of the periodic table inorganic chemistry is one of the foundational subjects of scientific study Inorganic catalysts are used in crucial industrial processes and the field to a significant extent also forms the basis of nanotechnology Unfortunately the subject is not a popular one for undergraduates This book aims to take a step to change this state of affairs by presenting a mechanistic logical introduction to the subject Organic teaching places heavy emphasis on reaction mechanisms arrow pushing and the authors of this book have found that a mechanistic approach works just as well for elementary inorganic chemistry As opposed to listening to formal lectures or learning the material by heart by teaching students to recognize common inorganic species as electrophiles and nucleophiles coupled with organic style arrow pushing this book serves as a gentle and stimulating introduction to inorganic chemistry providing students with the knowledge and opportunity to solve inorganic reaction mechanisms The first book to apply the arrow pushing method to inorganic chemistry teaching With the reaction mechanisms approach arrow pushing students will no longer have to rely on memorization as a device for learning this subject but will instead have a logical foundation for this area of study Teaches students to recognize common inorganic species as electrophiles and nucleophiles coupled with organic style arrow pushing Provides a degree of integration with what students learn in organic chemistry facilitating learning of this subject Serves as an invaluable companion to any introductory inorganic chemistry textbook *Organoselenium Compounds in Biology and Medicine* Vimal Kumar Jain,K Indira Priyadarsini,2017-09-26 Organoselenium shows incredible promise in medicine particularly cancer therapy This book discusses organoselenium chemistry and biology in the context of its therapeutic

potential taking the reader through synthetic techniques bioactivity and therapeutic applications Divided into three sections the first section describes synthetic advances in bioactive selenium compounds revealing how organoselenium compound toxicity redox properties and specificity can be further tuned The second section explains the biophysics and biochemistry of organoselenium compounds as well as selenoproteins The final section closes with several chapters devoted to therapeutic and medicinal applications of organoselenium compounds covering radioprotectors anticancer agents and antioxidant behaviour With contributions from leading global experts this book covers recent advances in the field and is an ideal reference for those researching organoselenium compounds

Nanofillers for Binary Polymer Blends Sabu

Thomas, Soney C. George, Sharika T. Nair, 2024-06-28 Nanofillers for Binary Polymer Blends covers major advances in the field of polymer blend nanocomposites The book encompasses the fundamentals of polymer blends various nanofillers experimental techniques used in their fabrication the characterization of various polymer blend nanocomposites and theoretical evaluations of various properties The properties and potential applications that have been achieved in various polymer blends by the addition of nanofillers are also highlighted Applications for commercial products including automotive parts packaging construction materials biotechnology medical devices building materials computer housings car interiors etc are also covered in detail This is an important reference source for materials scientists and engineers looking to increase their understanding of how nanofillers are being used in polymer blends Outlines the various types of nanofillers explaining how the properties of each enhances the morphology rheology mechanical dynamic mechanical viscoelastic electrical and thermal properties of polymer blends Provides information on the theory modeling and simulation of nano filled polymer blends Assesses the mechanism of selective localization of nanofillers in polymer blends the effect of localization of nanofillers on the microstructure and the relative performance of polymer blends

Metal-Chalcogenide Nanocomposites

Mohammad Ehtisham Khan, Jeenat Aslam, 2023-11-19 Metal chalcogenides have exceptional properties and can be used for electronic devices environmental monitoring and sensing applications for energy storage as electrode materials in fuel cells membranes and for photocatalytic degradation of environmental pollutants in the field of waste water treatment applications Metal Chalcogenide Nanocomposites Fundamentals Properties and Industrial Applications focuses on metal chalcogenide nanomaterials for environmental remediation and corrosion applications The chapters focuses on cost effective and facile fabrication approaches their growth mechanisms optical electrical and other important properties and their applications in a broad range of diverse fields such as photocatalysis photovoltaics hydrogen production lithium batteries energy storage anticorrosion and sensor devices The book will be an important information source for both material scientists and engineers who want to create the next generation of products and devices for energy and environmental applications Covers fabrication standard characterization photocatalytic mechanisms and environmentally sustainable fabrication methods Applications covered include environmental electronics oil gas water treatment sensing and many more Includes challenges and future

opportunities which are discussed in detail **Crystal Structures of Compounds Containing Ions Selenite** Claudia Graiff, 2019-01-17 This book is a printed edition of the Special Issue Crystal Structures of Compounds Containing Ions Selenite that was published in Crystals *Chalcogenide* Abhay Kumar Singh, Tien-Chien Jen, 2021-04-26 This is introductory book for researchers scientists and students in the area of organic and inorganic composite materials This book has addressed timely the innovative topic chalcogenide multiwalled carbon nanotubes and chalcogenide bilayer graphene composite materials under a glassy regime This book will give a clear idea on the concepts of the newly established composite materials area by providing interpretations of inside physio chemical mechanism The remarkable landmark innovations related to this newly introduced research field are included in this book Additionally the possible futuristic applications in the area of nanoelectronics optoelectronics biomedical etc are also addressed

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