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Smart Membranes and Sensors John Wiley & Sons

Spectroscopic Properties of Inorganic and Organometallic Compounds provides a unique source of information on an important area of chemistry. Divided into sections mainly according to the particular spectroscopic technique used, coverage in each volume includes: NMR (with reference to stereochemistry, dynamic systems, paramagnetic complexes, solid state NMR and Groups 13-18); nuclear quadrupole resonance spectroscopy; vibrational spectroscopy of main group and transition element compounds and coordinated ligands; and electron diffraction. Reflecting the growing volume of published work in this field, researchers will find this Specialist Periodical Report an invaluable source of information on current methods and applications. Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research. Compiled by teams of leading experts in their specialist fields, this series is designed to help the chemistry community keep current with the latest developments in their field. Each volume in the series is published either annually or biennially and is a superb reference point for researchers. www.rsc.org/spr

Handbook of Gas Sensor Materials John Wiley & Sons

Micrographic reproduction of the 13 volume Oxford English dictionary published in 1933.

Molecular Nanomagnets and Related Phenomena Springer

The first reference on this rapidly growing topic provides an essential up-to-date guide to current and emerging trends. A group of international experts has been carefully selected by the editors to cover all the central aspects, with a focus on molecular species while also including industrial applications.

The resulting unique overview is a must-have for researchers, both in academia and industry, who are entering or already working in the field.

Introduction to Molecular Magnetism Springer Science & Business Media

Research on molecule-based magnetic materials was systematized in the 1980s and expanded rapidly. A Special Issue focusing on molecule-based magnetic substances was published in Magnetochemistry. However, the functionalities of the substances increase daily; therefore, the researchers' quest is not yet in decline. Research on molecule-based magnetism developed across many fields, including chemistry, physics, material chemistry, and applied physics, and the use of the various functionalities of these molecule-based magnetic substances has greatly influenced research on spin-based devices. In honor of Professor Masahiro Yamashita, who contributed greatly to this field, I have put together a Special Issue that highlights ten groundbreaking articles. The issue is entitled, "A Themed Issue of Functional Molecule-Based Magnets: Dedicated to Professor Masahiro Yamashita on the Occasion of his 65th Birthday". I wish to thank the authors for their dedicated work, and the referees and editorial staff for the time they invested commenting on the articles.

Nanostructured Materials for the Detection of CBRN Springer

This reference book contains a comprehensive selection of the most frequently used assays for reliably detecting pharmacological effects of potential drugs, including tests for cardiovascular, analgesic, psychotropic, metabolic, endocrine, respiratory, renal, and immunomodulatory activities. Each of the over 700 assays comprises a detailed protocol with the purpose and rationale of the method, a description of the experimental procedure, a critical assessment of the results and their pharmacological and clinical relevance, and pertinent references. Identification of specific tests is facilitated by the enclosed CD-ROM which allows for a quick and full text research. An appendix with guidelines and legal regulations for animal experiments in various countries will help to plan these experiments properly in accordance with the welfare of laboratory animals.

Molecular Materials Springer

Nanomagnetism is a rapidly expanding area of research which appears to be able to provide novel applications. Magnetic molecules are at the very bottom of the possible size of nanomagnets and they provide a unique opportunity to observe the coexistence of classical and quantum properties. The discovery in the early 90's that a cluster comprising twelve manganese ions shows hysteresis of molecular origin, and later proved evidence of quantum effects, opened a new research area which is still flourishing through the collaboration of chemists and physicists. This book is the first attempt to cover in detail the new area of molecular nanomagnetism, for which no other book is available. In fact research and review articles, and book chapters are the only tools available for newcomers and the experts in the field. It is written by the chemists originators and by a theorist who has been one of the protagonists of the development of the field, and is explicitly addressed to an audience of chemists and physicists, aiming to use a language suitable for the two communities.

The Grape Genome John Wiley & Sons

This first introduction to the rapidly growing field of molecular magnetism is written with Masters and PhD students in mind, while postdocs and other newcomers will also find it an extremely useful guide. Adopting a clear didactic approach, the authors cover the fundamental concepts,

providing many examples and give an overview of the most important techniques and key applications. Although the focus is one lanthanide ions, thus reflecting the current research in the field, the principles and the methods equally apply to other systems. The result is an excellent textbook from both a scientific and pedagogic point of view.

Molecular Magnetic Materials OUP Oxford

The two volumes of Handbook of Gas Sensor Materials provide a detailed and comprehensive account of materials for gas sensors, including the properties and relative advantages of various materials. Since these sensors can be applied for the automation of myriad industrial processes, as well as for everyday monitoring of such activities as public safety, engine performance, medical therapeutics, and in many other situations, this handbook is of great value. Gas sensor designers will find a treasure trove of material in these two books.

Recent Development in Clusters of Rare Earths and Actinides: Chemistry and Materials CRC Press

Analytical ultracentrifugation (AUC) can supply rich information on the mass, shape, size distribution, solvation, and composition of macromolecules and nanoscopic particles. It also provides a detailed view of their reversible single- or multi-component interactions over a wide range of affinities. Yet this powerful technique has been hard to master in mainstream molecular sciences due to a lack of comprehensive books on the subject. Filling this gap in the literature of biophysical methodology, Basic Principles of Analytical Ultracentrifugation explains the fundamentals in the theory and practice of AUC. The book provides you with up-to-date experimental information to confidently practice AUC. You will understand the basic concepts, full potential, and possible pitfalls of AUC as well as appreciate the current relevance of past work in the field. The book first introduces the basic principles and technical setup of an AUC experiment and briefly describes the optical systems used for detection. It then explores the ultracentrifugation experiment from a macromolecular standpoint, offering a detailed physical picture of the sedimentation process and relevant macromolecular parameters. The authors present important practical aspects for conducting an experiment, including sample preparation, data acquisition and data structure, and the execution of the centrifugal experiment. They also cover instrument calibration and quality control experiments.

Spectroscopic Properties of Inorganic and Organometallic Compounds John Wiley & Sons

"... the book does an excellent job of putting together several different classes of materials. Many common points emerge, and the book may facilitate the development of hybrids in which the qualities of the "parents" are enhanced." — *Angew. Chem. Int. Ed.* 2011 With applications in optoelectronics and photonics, quantum information processing, nanotechnology and data storage, molecular materials enrich our daily lives in countless ways. These materials have properties that depend on their exact structure, the degree of order in the way the molecules are aligned and their crystalline nature. Small, delicate changes in molecular structure can totally alter the properties of the material in bulk. There has been increasing emphasis on functional metal complexes that demonstrate a wide range of physical phenomena. Molecular Materials represents the diversity of the area, encapsulating magnetic, optical and electrical properties, with chapters on: Metal-Based Quadratic Nonlinear Optical Materials Physical Properties of Metallomesogens Molecular Magnetic Materials Molecular Inorganic Conductors and Superconductors Molecular Nanomagnets Structured to include a clear introduction, a discussion of the basic concepts and up-to-date coverage of key aspects, each chapter provides a detailed review which conveys the excitement of work in that field. Additional volumes in the Inorganic Materials Series: Low-Dimensional Solids | Molecular Materials | Porous Materials | Energy Materials

Handbook of Humidity Measurement, Volume 1 John Wiley & Sons

The first volume of The Handbook of Humidity Measurement focuses on the review of devices based on optical principles of measurement such as optical UV, fluorescence hygrometers, optical and fiber-optic sensors of various types. Numerous methods for monitoring the atmosphere have been developed in recent years, based on measuring the absorption of electromagnetic field in different spectral ranges. These methods, covering the optical (FTIR and Lidar techniques), as well as a microwave and THz ranges are discussed in detail in this volume. The role of humidity-sensitive materials in optical and fiber-optic sensors is also detailed. This volume describes the reasons for controlling the humidity, features of water and water vapors, and units used for humidity measurement.

Transition Metals in Coordination Environments John Wiley & Sons

This book facilitates the access to the various disciplines, highlighting their many points of contacts and making the clear the message that membrane-based sensors represent the future of the research in every field, including chemistry, biology, biomedicine, textiles, and electronics.

Lanthanides and Actinides in Molecular Magnetism John Wiley & Sons

This book focuses on the electronic properties of transition metals in coordination environments. These properties are responsible for the unique and intricate activity of transition metal sites in bio- and inorganic catalysis, but also pose challenges for both theoretical and experimental studies. Written by an international group of recognized experts, the book reviews recent advances in computational modeling and discusses their interplay using experiments. It covers a broad range of topics, including advanced computational methods for transition metal systems; spectroscopic, electrochemical and catalytic properties of transition metals in coordination environments; metalloenzymes and biomimetic compounds; and spin-related phenomena. As such, the book offers an invaluable resource for all researchers and postgraduate students interested in both fundamental and application-oriented research in the field of transition metal systems.

A Themed Issue of Functional Molecule-based Magnets Springer

In Handbook of Drug Monitoring Methods: Therapeutics and Drug Abuse, authors discuss the different analytical techniques used in today's practice of therapeutic drug monitoring and drugs of abuse as well as alcohol testing with relevant theory, mechanism, and in-depth scientific discussion on each topic. This volume is the perfect handbook and quick reference for any clinical laboratory, allowing clinicians to find the potential source of a false-positive or a false-negative result in the daily operation of a toxicology laboratory. At the same time, this book can also be used as a reference for medical technologists, supervisors, laboratory directors, clinical chemists, toxicologists, and pathologists to find in-depth cause of a potential interference and what tests can be ordered to circumvent such problem. The volume's first half focuses on various issues of therapeutic drug monitoring. Additional chapters cover analysis of heavy metals, alcohol testing, and issues of drugs of abuse testing. These chapters are written by experts in their relative sub-specialties and also by the editor. Comprehensive and timely, Handbook of Drug Monitoring Methods: Therapeutics and Drug Abuse is the ideal text for clinicians and researchers monitoring alcohol and drug testing and other important tasks of toxicological laboratory services.

Orbital Interactions in Chemistry MDPI

The phenomenon of spin-crossover has a large impact on the physical properties of a solid material, including its colour, magnetic moment, and electrical resistance. Some materials also show a structural phase change during the transition. Several practical applications of spin-crossover materials have been demonstrated including display and memory devices, electrical and electroluminescent devices, and MRI contrast agents. Switchable liquid crystals, nanoparticles, and thin films of spin-crossover materials have also been achieved. Spin-Crossover Materials: Properties and Applications presents a comprehensive survey of recent developments in spin-crossover research, highlighting the multidisciplinary nature of this rapidly expanding field. Following an introductory chapter which describes the spin-crossover phenomenon and historical development of the field, the book goes on to cover a wide range of topics including Spin-crossover in mononuclear, polynuclear and polymeric complexes Structure: function relationships in molecular spin-crossover materials Charge-transfer-induced spin-transitions Reversible spin-pairing in crystalline organic radicals Spin-state switching in solution Spin-crossover compounds in multifunctional switchable materials and nanotechnology Physical and theoretical methods for studying spin-crossover materials Spin-Crossover Materials: Properties and Applications is a valuable resource for academic researchers working in the field of spin-crossover materials and topics related to crystal engineering, solid state chemistry and physics, and molecular materials. Postgraduate students will also find this book useful as a comprehensive introduction to the field.

Magnetic Molecular Materials Springer Science & Business Media

The series Structure and Bonding publishes critical reviews on topics of research concerned with chemical structure and bonding. The scope of the series spans the entire Periodic Table and addresses structure and bonding issues associated with all of the elements. It also focuses attention on new and developing areas of modern structural and theoretical chemistry such as nanostructures, molecular electronics, designed molecular solids, surfaces, metal clusters and supramolecular structures. Physical and spectroscopic techniques used to determine, examine and model structures fall within the purview of Structure and Bonding to the extent that the focus is on the scientific results obtained and not on specialist information concerning the techniques themselves. Issues associated with the development of bonding models and generalizations that illuminate the reactivity pathways and rates of chemical processes are also relevant. The individual volumes in the series are thematic. The goal of each volume is to give the reader, whether at a university or in industry, a comprehensive overview of an area where new insights are emerging that are of interest to a larger scientific audience. Thus each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole. The most significant developments of the last 5 to 10 years should be presented using selected examples to illustrate the principles discussed. A description of the physical basis of the experimental techniques that have been used to provide the primary data may also be appropriate, if it has not been covered in detail elsewhere. The coverage need not be exhaustive in data, but should rather be conceptual, concentrating on the new principles being developed that will allow the reader, who is not a specialist in the area covered, to understand the data presented. Discussion of possible future research directions in the area is welcomed. Review articles for the individual volumes are invited by the volume editors. Readership: research scientists at universities or in industry, graduate students Special offer for all customers who have a standing order to the print version of Structure and Bonding, we offer free access to the electronic volumes of the Series published in the current year via SpringerLink.

[Basic Principles of Analytical Ultracentrifugation](#) Springer

Explains the underlying structure that unites all disciplines in chemistry Now in its second edition, this book explores organic, organometallic, inorganic, solid state, and materials chemistry, demonstrating how common molecular orbital situations arise throughout the whole chemical spectrum. The authors explore the relationships that enable readers to grasp the theory that underlies and connects traditional fields of study within chemistry, thereby providing a conceptual framework with which to think about chemical structure and reactivity problems. Orbital Interactions in Chemistry begins by developing models and reviewing molecular orbital theory. Next, the book explores orbitals in the organic-main group as well as in solids. Lastly, the book examines orbital interaction patterns that occur in inorganic – organometallic fields as well as cluster chemistry, surface chemistry, and magnetism in solids. This Second Edition has been thoroughly revised and updated with new discoveries and computational tools since the publication of the first edition more than twenty-five years ago. Among the new content, readers will find: Two new chapters dedicated to surface science and magnetic properties Additional examples of quantum calculations, focusing on inorganic and organometallic chemistry Expanded treatment of group theory New results from photoelectron spectroscopy Each section ends with a set of problems, enabling readers to test their grasp of new concepts as they progress through the text. Solutions are available on the book's ftp site. Orbital Interactions in Chemistry is written for both researchers and students in organic, inorganic, solid state, materials, and computational chemistry. All readers will discover the underlying structure that unites all disciplines in chemistry.

Copper-Oxygen Chemistry John Wiley & Sons

Research on metal-containing liquid crystals is a rapidly expanding, multidisciplinary field with new materials continually being synthesized and novel applications being developed. 'Metallomesogens' is the first comprehensive survey of the field, introducing the reader to: * materials design * synthesis * physical properties * emerging applications Carefully selected references round off this well-organized compendium. It is an indispensable guide to experienced researchers in coordination and organometallic chemistry as well as in liquid-crystal and materials science.

Newcomers and graduate students will also benefit from this didactically sound introduction to the field.

International Catalogue of Scientific Literature, 1901-1914 John Wiley & Sons

Throughout most of history, medicinal plants and their active metabolites have represented a valuable source of compounds used to prevent and to cure several diseases. Interest in natural compounds is still high as they represent a source of novel biologically/pharmacologically active compounds. Due to their high structural diversity and complexity, they are interesting structural scaffolds that can offer promising candidates for the study of new drugs, functional foods, and food additives. Plant extracts are a highly complex mixture of compounds and qualitative and quantitative analyses are necessary to ensure their quality. Furthermore, greener methods of extraction and analysis are needed today. This book is based on articles submitted for publication in the Special Issue entitled "Qualitative and Quantitative Analysis of Bioactive Natural Products" that collected original research and reviews on these topics.

[Spin Crossover in Transition Metal Compounds II](#) MDPI

Covers the vastly expanding subject of oxidative processes mediated by copper ions within biological systems Copper-mediated biological oxidations offer a broad range of fundamentally important and potentially practical chemical processes that cross many chemical and pharmaceutical disciplines. This newest volume in the Wiley Series on Reactive Intermediates in Chemistry and Biology is divided into three logical areas within the topic of copper/oxygen chemistry—biological systems, theory, and bioinorganic models and applications—to explore the biosphere for its highly evolved and thus efficient oxidative transformations in the discovery of new types of interactions between molecular oxygen and copper ion. Featuring a diverse collection of subject matter unified in one complete and comprehensive resource, Copper-Oxygen Chemistry probes the fundamental aspects of copper coordination chemistry, synthetic organic chemistry, and biological chemistry to reveal both the biological and chemical aspects driving the current exciting research efforts behind copper-oxygen chemistry. In addition, Copper-Oxygen Chemistry: Addresses the significantly

increasing literature on oxygen-atom insertion and carbon-carbon bond-forming reactions as well as enantioselective oxidation chemistries Progresses from biological systems to spectroscopy and theory, and onward to bioinorganic models and applications Covers a wide array of reaction types such as insertion and dehydrogenation reactions that utilize the cheap, abundant, and energy-containing O₂ molecule With thorough coverage by prominent authors and researchers shaping innovations in this growing field, this valuable reference is essential reading for bioinorganic chemists, as well as organic, synthetic, and pharmaceutical chemists in academia and industry.