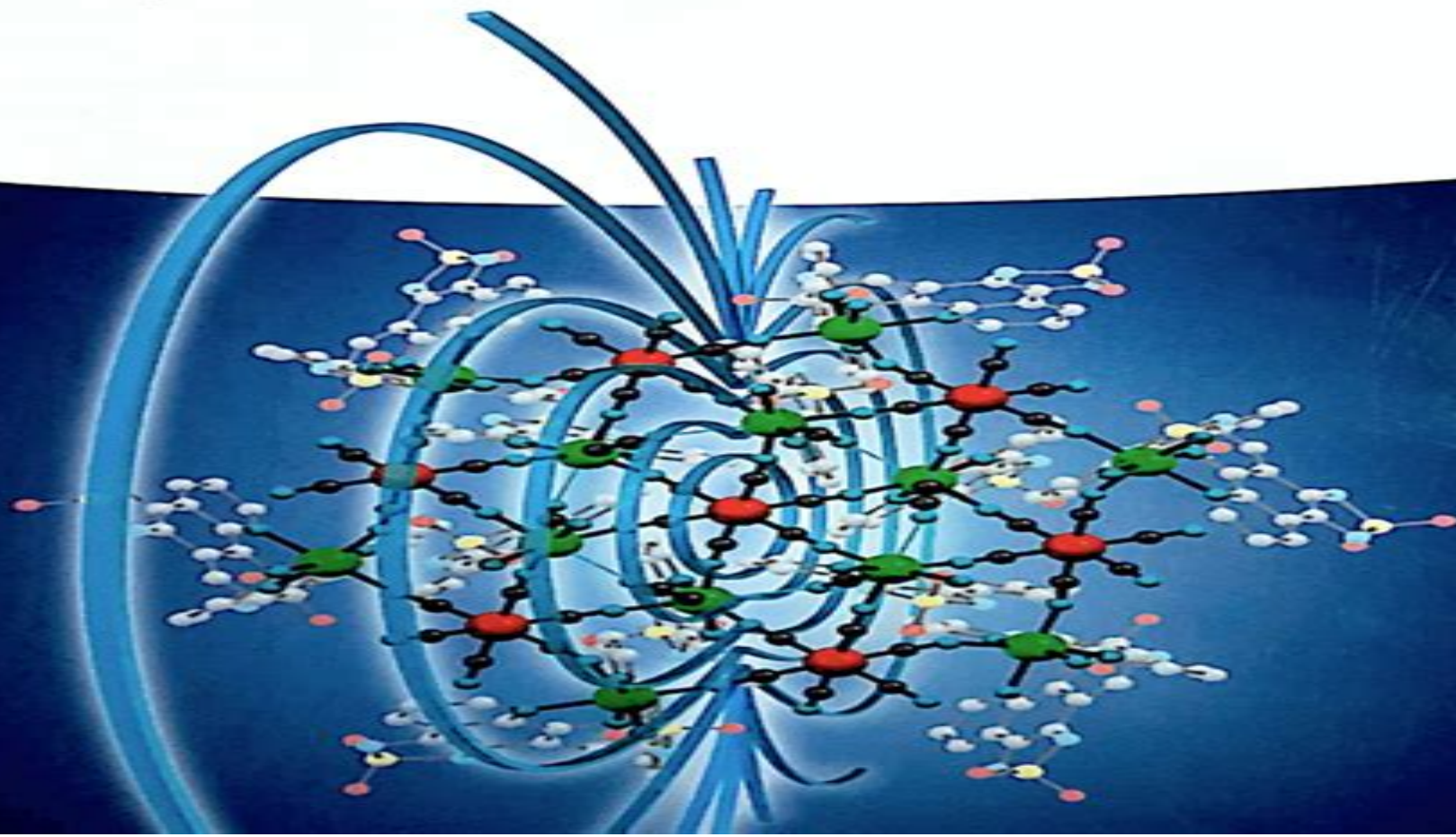


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Molecular Magnetic Materials

Concepts and Applications



Magnetic Molecular Materials

Marc Fourmigué, Lahcène Ouahab

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Magnetic Molecular Materials:

Magnetic Molecular Materials D. Gatteschi, O. Kahn, Joel S. Miller, Fernando Palacio, 2012-12-06 One of the major challenges of science in the last few years of the second millennium is learning how to design materials which can fulfill specific tasks. Ambitious as it may be, the possibilities of success are not negligible provided that all the different expertises merge to overcome the limits of existing disciplines and forming new paradigms. The NATO Advanced Research Workshop on Magnetic Molecular Materials was organized with the above considerations in mind in order to determine which are the most appropriate synthetic strategies, experimental techniques of investigation and theoretical models which are needed in order to develop new classes of magnetic materials which are based on molecules rather than on metallic or ionic lattices. Why molecules? The answer may be obvious: molecular chemistry in principle can tune the structures and the properties of complex aggregates and nature already provides a large number of molecular aggregates which can perform the most disparate functions. The contributions collected in this book provide a rather complete view of the current research accomplishments of magnetic molecular materials. There are several different synthetic approaches which are followed, ranging from purely organic to inorganic materials. Some encouraging successes have already been achieved even if the critical temperatures below which magnetic order is observed still are in the range requiring liquid helium.

Conducting and Magnetic Organometallic Molecular Materials Marc Fourmigué, Lahcène Ouahab, 2009-07-21 For several years the two parallel worlds of Molecular Conductors in one hand and Molecular Magnetism in the other have grown side by side: the former essentially based on radical organic molecules, the latter essentially based on the high spin properties of metal complexes. Over the last few years, however, organometallic derivatives have started to play an increasingly important role in both worlds and have in many ways contributed to open several passages between these two worlds. This volume recognizes this important emerging evolution of both research areas. It is not intended to give a comprehensive view of all possible organometallic materials and polymers; for example, they were not considered here. Rather, we present a selection of the most recent research topics where organometallic derivatives were shown to play a crucial role in the setting of conducting and/or magnetic properties in crystalline materials. First, the role of organometallic anions in tetrafulvalene-based molecular conductors is highlighted by Schlueter, while Kubo and Kato describe very recent ortho-metalated chelating ligands appended to the TTF core and their conducting salts. The combination of conducting and magnetic properties and the search for p-d interactions are analyzed in two complementary contributions by Miyazaki and Ouahab, while Valade focuses on the only class of metal bis-dithiolene complexes to give rise to superconductive molecular materials in association with organic as well as organometallic cations.

Functional Molecular Materials Matteo Atzori, Flavia Artizzu, 2018-04-17 The field of molecular materials represents an exciting playground for the design, tailoring and combination of chemical building blocks as carriers of physical properties and aims at the understanding and development of novel functional molecular devices. Within this

extraordinarily widespread framework the realization of materials with the desired functionalities can only be achieved through a rational design strategy based on a solid understanding of the chemical and physical features of each constituting building block This book provides a general overview of molecular materials discussing their key features in a simple and organic way by focusing more on basic concepts rather than on specialized descriptions in order to supply the non expert reader with the immediate fundamental tools and hints to understand and develop research in this field With this view it is a step by step guide toward the preparation of functional molecular materials where the knowledge and understanding so far attained by the scientific community through the investigation of significant archetypical examples is deconstructed down to the fundamental basis and then presented in reverse from the base to the top

Molecular Magnetism: From Molecular Assemblies to the Devices E. Coronado, Pierre Delhaès, D. Gatteschi, Joel Miller, 1996-06-30 Molecular Magnetism From Molecular Assemblies to the Devices reviews the state of the art in the area It is organized in two parts the first of which introduces the basic concepts theories and physical techniques required for the investigation of the magnetic molecular materials comparing them with those used in the study of classical magnetic materials Here the reader will find i a detailed discussion of the electronic processes involved in the magnetic interaction mechanisms of molecular systems including electron delocalization and spin polarization effects ii a presentation of the available theoretical models based on spin and Hubbard Hamiltonians and iii a description of the specific physical investigative techniques used to characterize the materials The second part presents the different classes of existing magnetic molecular materials focusing on the possible synthetic strategies developed to date to assemble the molecular building blocks ranging from purely organic to inorganic materials as well as on their physical properties and potential applications These materials comprise inorganic and organic ferro and ferrimagnets high nuclearity organic molecules and magnetic and metallic clusters spin crossover systems charge transfer salts including fulleride salts and organic conductors and superconductors and organized soft media magnetic liquid crystals and Langmuir Blodgett films

Magnetism Joel S. Miller, Marc Drillon, 2001 Combining the contemporary knowledge from widely scattered sources this is a much needed and comprehensive overview of the field In maintaining a balance between theory and experiment the book guides both advanced students and specialists to this research area Topical reviews written by the foremost scientists explain recent trends and advances focusing on the correlations between electronic structure and magnetic properties The book spans recent trends in magnetism for molecules as well as inorganic based materials with an emphasis on new phenomena being explored from both experimental and theoretical viewpoints with the aim of understanding magnetism on the atomic scale The volume helps readers evaluate their own experimental observations and serves as a basis for the design of new magnetic materials Topics covered include Metallocenes Salts of Radical Anion Bis dichalcogenate metalates Chiral Molecule Based Magnets Cooperative Magnetic Behavior in Metal Dicyanamide Complexes Lanthanide Ions in Molecular Exchange Coupled Systems Monte Carlo Simulation Metallocene

Based Magnets Magnetic Nanoporous Molecular Materials A unique reference work indispensable for everyone concerned with the phenomena of magnetism

Multifunctional Molecular Materials Lahcene Ouahab, 2013-01-24 This book provides a comprehensive overview on multifunctional molecular materials that involve coexistence or interplay or synergy between multiple physical properties focusing on electrical conductivity magnetism single molecule magnets behavior chirality spin crossover and luminescence The book's coverage ranges from transition metals and lanthanide coordination complexes to genuine organic materials The book also discusses some potentialities of applications of these materials in molecule based devices

Molecular Magnets Juan Bartolomé, Fernando Luis, Julio F. Fernández, 2013-10-17 This book provides an overview of the physical phenomena discovered in magnetic molecular materials over the last 20 years It is written by leading scientists having made the most important contributions to this active area of research The main topics of this book are the principles of quantum tunneling and quantum coherence of single molecule magnets SMMs phenomena which go beyond the physics of individual molecules such as the collective behavior of arrays of SMMs the physics of one dimensional single chain magnets and magnetism of SMMs grafted on substrates The potential applications of these physical phenomena to classical and quantum information communication technologies and the emerging fields of molecular spintronics and magnetic refrigeration are stressed The book is written for graduate students researchers and non experts in this field of research

Molecular Materials Duncan W. Bruce, Dermot O'Hare, Richard I. Walton, 2011-04-04 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

Molecular Magnetism: From Molecular Assemblies to the Devices E. Coronado, Pierre Delhaès, D. Gatteschi, Joel S. Miller, 2013-03-09 Molecular Magnetism From Molecular Assemblies to the Devices reviews the state of the art in the area It is organized in two parts the first of which introduces the basic concepts theories and physical techniques required for the

investigation of the magnetic molecular materials comparing them with those used in the study of classical magnetic materials Here the reader will find i a detailed discussion of the electronic processes involved in the magnetic interaction mechanisms of molecular systems including electron delocalization and spin polarization effects ii a presentation of the available theoretical models based on spin and Hubbard Hamiltonians and iii a description of the specific physical investigative techniques used to characterize the materials The second part presents the different classes of existing magnetic molecular materials focusing on the possible synthetic strategies developed to date to assemble the molecular building blocks ranging from purely organic to inorganic materials as well as on their physical properties and potential applications These materials comprise inorganic and organic ferro and ferrimagnets high nuclearity organic molecules and magnetic and metallic clusters spin crossover systems charge transfer salts including fulleride salts and organic conductors and superconductors and organized soft media magnetic liquid crystals and Langmuir Blodgett films *Magnetic Properties of Organic Materials* Paul M. Lahti, 2023-01-20 Provides an extensive overview of the last three decades of research on the structures and magnetic behaviors of organic and organometallic substances building a solid foundation for future research into applications of molecular materials based on organic paramagnetic and polymeric systems Provides the essential body of knowledge for an organically oriented materials science of electronic materials

Reviewing **Magnetic Molecular Materials**: Unlocking the Spellbinding Force of Linguistics

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