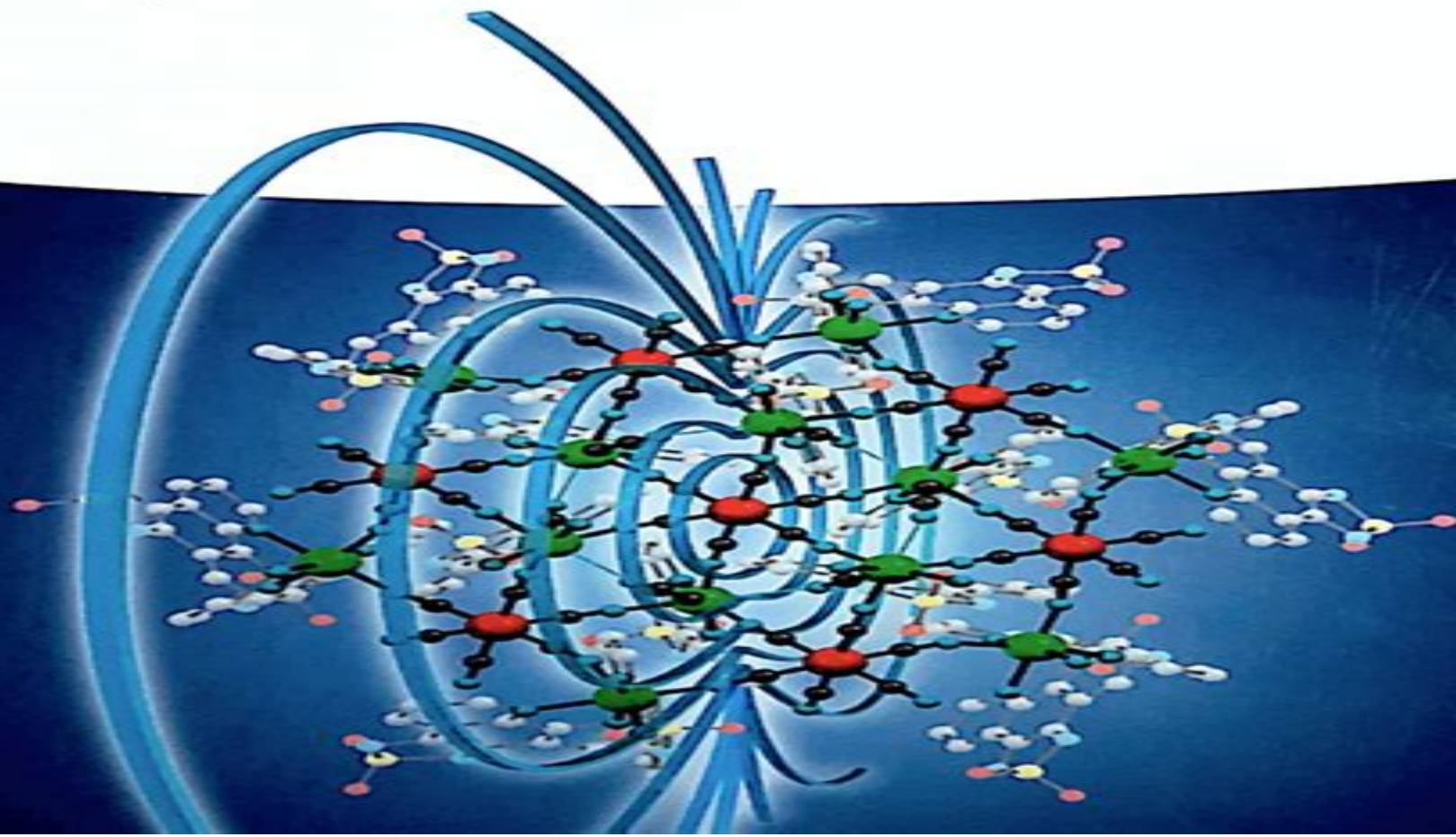


Edited by Barbara Sieklucka and Dawid Pinkowicz

# Molecular Magnetic Materials

Concepts and Applications



# Magnetic Molecular Materials

**Matteo Atzori, Flavia Artizzu**



## **Magnetic Molecular Materials:**

*Molecular Magnetic Materials* Barbara Sieklucka, Dawid Pinkowicz, 2017-01-17 A comprehensive overview of this rapidly expanding interdisciplinary field of research After a short introduction to the basics of magnetism and molecular magnetism the text goes on to cover specific properties of molecular magnetic materials as well as their current and future applications Design strategies for acquiring molecular magnetic materials with desired physical properties are discussed as are such multifunctional materials as high T<sub>c</sub> magnets chiral and luminescent magnets magnetic sponges as well as photo and piezo switching magnets The result is an excellent resource for materials scientists chemists physicists and crystal engineers either entering or already working in the field *Magnetic Molecular Materials*, 1996 *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 *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 science 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 fine 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 **Molecular Magnetism** Koichi Itoh, Minoru Kinoshita, 2000-11-17 *Molecular Magnetism* introduces graduates and researchers in chemistry and physics to this newly

developed field This is an exciting area allowing the development of novel magnetic materials such as purely organic ferromagnets to be used in a variety of applications The book also covers the experimental and theoretical background before discussing the molecular design and synthesis of organic and metal organic magnetic materials The properties of various materials including polyradicals polymers and other interesting phenomena such as those associated with photo induced magnets are also discussed Molecular Magnetism is of interest to students and researchers in chemistry solid state physics materials science electronics photonics and polymer engineering

**Magnetic Properties of Organic Materials** Paul M. Lahti, 1999-05-13 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

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

**Introduction to Molecular Magnetism** Cristiano Benelli, Dante Gatteschi, 2015-06-22 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 on 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

*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 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 tet thiafulvalenium 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 Myazaki 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

**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

Magnetism Joel S. Miller, Marc Drillon, 2006-03-06 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 Metallocenium 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 *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 Single-Molecule Magnets Malgorzata Holynska, 2019-02-11 Concise overview of synthesis and characterization of single molecule magnets Molecular magnetism is explored as an alternative to conventional solid state magnetism as the basis for ultrahigh density memory materials with extremely fast processing speeds In particular single molecule magnets SMM are in the focus of current research both because of their intrinsic magnetization properties as well as because of their potential use in molecular spintronic devices SMMs are fascinating objects on the example of which one can explain many concepts Single Molecule Magnets Molecular Architectures and Building Blocks for Spintronics starts with a general introduction to single molecule magnets SMM which helps readers to understand the evolution of the field and its future The following chapters deal with the current synthetic methods leading to SMMs their magnetic properties and their characterization by methods such as high field electron paramagnetic resonance paramagnetic nuclear magnetic resonance and magnetic circular dichroism The book closes with an overview of radical bridged SMMs which have shown application potential as building blocks for high density memories Covers a hot topic single molecule magnetism is one of the fastest growing research fields in inorganic chemistry and materials science Provides researchers and newcomers to the field with a solid foundation for their further work Single Molecule Magnets Molecular Architectures and Building Blocks for Spintronics will appeal to inorganic chemists materials scientists molecular physicists and electronics engineers interested in the rapidly growing field of study *Novel Magnetic*

*Nanostructures* Natalia Domracheva, Maria Caporali, Eva Rentschler, 2018-06-14 Novel Magnetic Nanostructures Unique Properties and Applications reviews the synthesis design characterization and unique properties of emerging nanostructured magnetic materials It discusses the most promising and relevant applications including data storage spintronics and biomedical applications Properties investigated include electronic self assembling multifunctional and magnetic properties along with magnetic phenomena Structures range from magnetic nanoclusters nanoparticles and nanowires to multilayers and self assembling nanosystems This book provides a better understanding of the static and dynamic magnetism in new nanostructures for important applications Provides an overview of the latest research on novel magnetic nanostructures including molecular nanomagnets metallocrown magnetic nanostructures magnetic dendrimers self assembling magnetic structures multifunctional nanostructures and much more Reviews the synthesis design characterization and detection of useful properties in new magnetic nanostructures Highlights the most relevant applications including spintronic data storage and biomedical applications

**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

*Biological Magnetic Materials and Applications* Tadashi Matsunaga, Tsuyoshi Tanaka, David Kisailus, 2018-07-11 This book addresses the biologically controlled synthesis of magnetic materials and its applications in bio inspired design and synthesis It highlights several key aspects of biologically produced magnetic materials i organisms that biologically synthesize and utilize magnetic materials ii formation mechanisms iii how these biological formation routes yield various phases and morphologies and iv the resultant magnetic and structural properties and describes diverse bio inspired approaches to utilizing magnetic materials in applications ranging from semiconductor to health industries In addition the book discusses the recent industrial use of magnetic materials to develop scalable technologies that encompass protein displays drug delivery biophysical separations and medical diagnostics as well as outlining future next generation applications As such it offers valuable insights for all scientists interested in using multidisciplinary fields to overcome current obstacles and in gaining multifaceted expertise in magnetic

materials bionanotechnology     Magnetism: A Synchrotron Radiation Approach Eric Beaurepaire, 2006-06-13 This volume contains the edited lectures of the fourth Mittelwihl school on Magnetism and Synchrotron Radiation This series of events introduces graduate students and nonspecialists from related disciplines to the field of magnetism and magnetic materials with emphasis on synchrotron radiation as an experimental tool of investigation These lecture notes present in particular the state of the art regarding the analysis of magnetic properties of new materials     Theoretical And Computational Aspects Of Magnetic Organic Molecules Sambhu N Datta, Carl O Trindle, Francesc Illas, 2013-12-23 Organic materials with extraordinary magnetic properties promise a wide range of light flexible and inexpensive alternatives to familiar metal based magnets Individual organic molecules with high magnetic moments will be the foundation for design and fabrication of these materials This book provides a systematic understanding of the structure and properties of organic magnetic molecules After a summary of the phenomenon of magnetism at the molecular level it presents a survey of the challenges to theoretical description and evaluation of the magnetic character of open shell molecules and an overview of recently developed methods and their successes and shortfalls Several fields of application including very strong organic molecular magnets and photo magnetic switches are surveyed Finally discussions on metal based materials and simultaneously semiconducting and ferromagnetic extended systems and solids point the way toward future advances The reader will find a comprehensive discourse on current understanding of magnetic molecules a thorough survey of computational methods of characterizing known and imagined molecules simple rules for design of larger magnetic systems and a guide to opportunities for progress toward organic magnets     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     **Magnetism and Magnetic Materials** J. M. D. Coey, 2010-03-25 An essential textbook for graduate courses on magnetism and an important source of practical reference data



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