



# Molecular Magnets

**Peter Day, Allan E. Underhill**



## **Molecular Magnets:**

*Metal-Organic and Organic Molecular Magnets* Peter Day, Alan E Underhill, 2007-10-31 Traditionally magnetic materials have been metals or inorganic compounds such as oxides of continuous lattice type However in recent years chemists have synthesized increasing numbers of crystalline solids based on molecular building blocks in the form of coordination and organometallic complexes or purely organic molecules which exhibit spontaneous magnetization In striking contrast to conventional magnets these materials are made from solutions close to room temperature rather than by metallurgical or ceramic methods This book which originates from contributions to a Discussion Meeting of The Royal Society of London brings together many of the leading international practitioners in the field who survey their own recent work and place it in the context of the wider fields of magnetism and supramolecular chemistry All aspects of molecular based magnets are addressed including synthesis structure property relations and physical properties Contents include details of the characterization of the first purely organic ferromagnet the synthesis of high coercivity materials and a unique description of new materials with Curie temperatures well above ambient A coherent survey of this rapidly developing field for the more general reader *Metal Organic and Organic Molecular Magnets* will also be welcomed by researchers and lecturers in materials science and inorganic or solid state chemistry

**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

**Molecular Magnets Recent Highlights** Wolfgang Linert, Michel Verdaguer, 2003-03-12 The book deals with recent scientific highlights on molecular magnetism in Europe Molecular magnetism is a new interdisciplinary discipline gathering together chemists

and physicists theoreticians and experimentalists The book intends to provide the reader with documented answers to many current questions How can chemists use soft conditions to transform molecules in light and transparent magnets How does a molecular system can behave as a single molecule magnet How to combine several functions in the same molecular system How light can be used to switch molecular magnetic properties How can molecules be used for ultimate high density information storage or in quantum computing What kind of methods do physicists develop and use to explore these new properties of matter What kind of concepts and calculations can be provided for theoreticians to design new objects and to better understand the field and to enlarge its exciting developments

**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 Magnets** Maria Balanda, Magdalena Fitta, 2019-03-19 Molecular magnets show many properties not met in conventional metallic magnetic materials i e low density transparency to electromagnetic radiation sensitivity to external stimuli such as light pressure temperature chemical modification or magnetic electric fields and others They can serve as functional materials in sensors of different types or be applied in high density magnetic storage or nanoscale devices Research into molecule based materials became more intense at the end of the 20th century and is now an important branch of modern science The articles in this Special Issue written by physicists and chemists reflect the current work on molecular magnets being carried out in several research centers Theoretical papers in the issue concern the influence of spin anisotropy in the low dimensional lattice of the resulting type of magnet as well as thermodynamics and magnetic excitations in spin trimers The impact of external pressure on structural and magnetic properties and its underlying mechanisms is described using the example of Prussian blue analogue data The other functionality discussed is the magnetocaloric effect investigated in coordination polymers and high spin clusters In this issue new molecular magnets are presented i ferromagnetic high spin Mn<sub>6</sub> single molecule magnets ii solvatomagnetic compounds changing their structure and magnetism dependent on water content and iii a family of purely organic magnetic materials Finally an advanced calorimetric study of anisotropy in magnetic molecular superconductors is reviewed

**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

*Molecular Magnets* Maria Ba?anda,2019 Molecular magnets show many properties not met in conventional metallic magnetic materials id est low density transparency to electromagnetic radiation sensitivity to external stimuli such as light pressure temperature chemical modification or magnetic electric fields and others They can serve as functional materials in sensors of different types or be applied in high density magnetic storage or nanoscale devices Research into molecule based materials became more intense at the end of the 20th century and is now an important branch of modern science The articles in this Special Issue written by physicists and chemists reflect the current work on molecular magnets being carried out in several research centers Theoretical papers in the issue concern the influence of spin anisotropy in the low dimensional lattice of the resulting type of magnet as well as thermodynamics and magnetic excitations in spin trimers The impact of external pressure on structural and magnetic properties and its underlying mechanisms is described using the example of Prussian blue analogue data The other functionality discussed is the magnetocaloric effect investigated in coordination polymers and high spin clusters In this issue new molecular magnets are presented i ferromagnetic high spin Mn6 single molecule magnets ii solvatomagnetic compounds changing their structure and magnetism dependent on water content and iii a family of purely organic magnetic materials Finally an advanced calorimetric study of anisotropy in magnetic molecular superconductors is reviewed

**Molecular Magnetism** Olivier Kahn,2021-11-17 Highly regarded and historic book covers basic concepts of magnetization and magnetic susceptibility establishes the fundamental equations of molecular magnetism and examines molecules containing a unique magnetic center 2019 edition

**Molecular Magnetic Materials** Barbara Sieklucka,Dawid Pinkowicz,2016-11-01 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 *Introduction to Molecular Magnetism* Cristiano Benelli,Dante Gatteschi,2015-04-16 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 Cluster Magnets** Richard Winpenny,2012 This work covers new developments in the field of molecular nanomagnetism complementing previous books in this area for example the volume by Gatteschi Sessoli and Villain on Single Molecule Magnets The book is written by experts in the field and is intended as a compilation of critical reviews of new areas rather than a comprehensive text

*Molecular Nanomagnets* Dante Gatteschi,Roberta Sessoli,Jacques Villain,2006-03-02 Molecular nanomagnetism is a research area of interest to chemists and physicists who want to discover the beauty of the molecular world and its potentialities to give new classes of magnetic materials This book is ideal for researchers PhD students and post docs in magnetism solid state physics and molecular chemistry **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 Metal-organic and Organic Molecular Magnets Peter Day,Allan E. Underhill,1999 Traditionally magnetic materials have been metals or if inorganic compounds such as oxides of continuous lattice type However in recent years chemists have synthesized increasing numbers of crystalline solids based on molecular building blocks in the form of coordination and organometallic complexes or purely organic molecules which exhibit spontaneous magnetization In striking contrast to conventional magnets these materials are made from solutions close to room temperature rather than by metallurgical or ceramic methods This book which originates from contributions to a Discussion Meeting of The Royal Society of London brings together many of the leading international practitioners in the field who survey their own recent work and place it in the context of the wider fields of magnetism and supramolecular

chemistry All aspects of molecular based magnets are addressed including synthesis structure property relations and physical properties Contents include details of the characterization of the first purely organic ferromagnet the synthesis of high coercivity materials and a unique description of new materials with Curie temperatures well above ambient A coherent survey of this rapidly developing field for the more general reader Metal Organic and Organic Molecular Magnets will also be welcomed by researchers and lecturers in materials science and inorganic or solid state chemistry *Molecular Magnets from Stable Organic Free Radicals* Sei-Hum Jang,1993 Spin Correlations and Excitations in Spin-frustrated Molecular and Molecule-based Magnets Zhendong Fu,2012 *Magnets and electric currents* Sir John Ambrose Fleming,1898

**Lanthanide Single Molecule Magnets** Jinkui Tang,Peng Zhang,2015-04-24 This book begins by providing basic information on single molecule magnets SMMs covering the magnetism of lanthanide the characterization and relaxation dynamics of SMMs and advanced means of studying lanthanide SMMs It then systematically introduces lanthanide SMMs ranging from mononuclear and dinuclear to polynuclear complexes classifying them and highlighting those SMMs with high barrier and blocking temperatures an approach that provides some very valuable indicators for the structural features needed to optimize the contribution of an Ising type spin to a molecular magnet The final chapter presents some of the newest developments in the lanthanide SMM field such as the design of multifunctional and stimuli responsive magnetic materials as well as the anchoring and organization of the SMMs on surfaces In addition the crystal structure and magnetic data are clearly presented with a wealth of illustrations in each chapter helping newcomers and experts alike to better grasp ongoing trends and explore new directions Jinkui Tang is a professor at Changchun Institute of Applied Chemistry Chinese Academy of Sciences Peng Zhang is currently pursuing his PhD at Changchun Institute of Applied Chemistry Chinese Academy of Sciences with a specific focus on the molecular magnetism of lanthanide compounds under the supervision of Prof Jinkui Tang

**Molecular Nanomagnets and Related Phenomena** Song Gao,2015-02-20 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      *Advanced Text-book of Magnetism & Electricity* Robert William Hutchinson, 1917



## Reviewing **Molecular Magnets**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Molecular Magnets**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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