Record Nr. UNINA9910455148303321 Metal-organic and organic molecular magnets [[electronic resource] /] / **Titolo** edited by P. Day, A.E. Underhill Pubbl/distr/stampa Cambridge,: RSC, 1999 **ISBN** 1-84755-139-4 Descrizione fisica 1 online resource (333 p.) Special publication;; no. 252 Collana Altri autori (Persone) DayP UnderhillA. E Disciplina 543/.08 Soggetti Magnetic materials Molecules - Magnetic properties Organic compounds - Magnetic properties Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references. ""Preface""; ""Contents""; ""Molecular-based magnets: setting the Nota di contenuto scene""; ""p-Nitrophenyl nitronyl nitroxide: the first organic ferromagnet""; ""Crystal architectures of organic molecular-based magnets""; ""Unusual crystal structures and properties of nitronylnitroxide radicals. Possible RVB states in molecule-based magnets"": ""Muon-spin-rotation studies of organic magnets"": ""Highspin polymeric arylamines""; ""Room-temperature molecule-based magnets""; ""Design of novel magnets using Prussian blue analogues""; ""Magnetic anisotropy in molecule-based magnets"" ""Multifunctional coordination compounds: design and properties""" Ferrimagnetic and metamagnetic layered cobalt(II)-hydroxides: first observation of a coercive field greater than 5 T""; ""Towards magnetic liquid crystals""; ""Quantum size effects in molecular magnets""; ""Large metal clusters and lattices with analogues to biology""; ""New high-spin clusters featuring transition metals""; ""From ferromagnets to high-spin molecules: the role of the organic ligands""; ""Molecular-based magnets: an epilogue""; ""The Bakerian Lecture, 1999 The molecular chemistry of magnets and superconductors""