

Wolfgang Wernsdorfer

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654
papers

55,847
citations

127
h-index

208
g-index

669
ext. papers

58,776
ext. citations

7.2
avg, IF

7.67
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 654 | Molecular spintronics using single-molecule magnets. <i>Nature Materials</i> , 2008 , 7, 179-86 | 27 | 2470 |
| 653 | Quantum phase interference and parity effects in magnetic molecular clusters. <i>Science</i> , 1999 , 284, 133-533.3 | 1296 | |
| 652 | Exchange-biased quantum tunnelling in a supramolecular dimer of single-molecule magnets. <i>Nature</i> , 2002 , 416, 406-9 | 50.4 | 864 |
| 651 | Giant single-molecule magnets: a [Mn84] torus and its supramolecular nanotubes. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2117-21 | 16.4 | 776 |
| 650 | Dysprosium triangles showing single-molecule magnet behavior of thermally excited spin states. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 1729-33 | 16.4 | 754 |
| 649 | A Stable Pentagonal Bipyramidal Dy(III) Single-Ion Magnet with a Record Magnetization Reversal Barrier over 1000 K. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5441-50 | 16.4 | 738 |
| 648 | A record anisotropy barrier for a single-molecule magnet. <i>Journal of the American Chemical Society</i> , 2007 , 129, 2754-5 | 16.4 | 648 |
| 647 | Electronic read-out of a single nuclear spin using a molecular spin transistor. <i>Nature</i> , 2012 , 488, 357-60 | 50.4 | 618 |
| 646 | Strong axiality and Ising exchange interaction suppress zero-field tunneling of magnetization of an asymmetric Dy ₂ single-molecule magnet. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11948-51 | 16.4 | 604 |
| 645 | Magnetic relaxation pathways in lanthanide single-molecule magnets. <i>Nature Chemistry</i> , 2013 , 5, 673-8 | 17.6 | 583 |
| 644 | Supramolecular spin valves. <i>Nature Materials</i> , 2011 , 10, 502-6 | 27 | 561 |
| 643 | Experimental Evidence of the Nel-Brown Model of Magnetization Reversal. <i>Physical Review Letters</i> , 1997 , 78, 1791-1794 | 7.4 | 543 |
| 642 | Electrically driven nuclear spin resonance in single-molecule magnets. <i>Science</i> , 2014 , 344, 1135-8 | 33.3 | 542 |
| 641 | A polynuclear lanthanide single-molecule magnet with a record anisotropic barrier. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 9489-92 | 16.4 | 535 |
| 640 | Quantum tunneling of magnetization in lanthanide single-molecule magnets: bis(phthalocyaninato)terbium and bis(phthalocyaninato)dysprosium anions. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2931-5 | 16.4 | 531 |
| 639 | A ferromagnetically coupled mn(19) aggregate with a record S=83/2 ground spin state. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 4926-9 | 16.4 | 496 |
| 638 | Single-molecule magnet behavior for an antiferromagnetically superexchange-coupled dinuclear dysprosium(III) complex. <i>Journal of the American Chemical Society</i> , 2011 , 133, 5319-28 | 16.4 | 485 |

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| 637 | Initial observation of magnetization hysteresis and quantum tunneling in mixed manganese-lanthanide single-molecule magnets. <i>Journal of the American Chemical Society</i> , 2004 , 126, 15648-9 | 16.4 | 474 |
| 636 | Nuclear spin driven quantum tunneling of magnetization in a new lanthanide single-molecule magnet: bis(phthalocyaninato)holmium anion. <i>Journal of the American Chemical Society</i> , 2005 , 127, 3650-1 | 16.4 | 453 |
| 635 | Carbon nanotube superconducting quantum interference device. <i>Nature Nanotechnology</i> , 2006 , 1, 53-9 | 28.7 | 450 |
| 634 | Single-chain magnet (NEt ₄)[Mn ₂ (5-MeOsalen) ₂ Fe(CN) ₆] Made of Mn(III)-Fe(III)-Mn(III) trinuclear single-molecule magnet with an S(T) = 9/2 spin ground state. <i>Journal of the American Chemical Society</i> , 2005 , 127, 3090-9 | 16.4 | 410 |
| 633 | Single-molecule magnets: a Mn ₂₅ complex with a record S = 51/2 spin for a molecular species. <i>Journal of the American Chemical Society</i> , 2004 , 126, 4766-7 | 16.4 | 406 |
| 632 | Switching the anisotropy barrier of a single-ion magnet by symmetry change from quasi-D ₅ h to quasi-Oh. <i>Chemical Science</i> , 2013 , 4, 3310 | 9.4 | 402 |
| 631 | Switching of magnetization by nonlinear resonance studied in single nanoparticles. <i>Nature Materials</i> , 2003 , 2, 524-7 | 27 | 366 |
| 630 | Nucleation of Magnetization Reversal in Individual Nanosized Nickel Wires. <i>Physical Review Letters</i> , 1996 , 77, 1873-1876 | 7.4 | 360 |
| 629 | Magnetic anisotropy of a single cobalt nanocluster. <i>Physical Review Letters</i> , 2001 , 86, 4676-9 | 7.4 | 352 |
| 628 | Cyanide-bridged iron(III)-cobalt(II) double zigzag ferromagnetic chains: two new molecular magnetic nanowires. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 1483-6 | 16.4 | 330 |
| 627 | Toward a magnetostructural correlation for a family of Mn ₆ SMMs. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12505-11 | 16.4 | 329 |
| 626 | Graphene spintronic devices with molecular nanomagnets. <i>Nano Letters</i> , 2011 , 11, 2634-9 | 11.5 | 325 |
| 625 | Field-induced slow magnetic relaxation in a six-coordinate mononuclear cobalt(II) complex with a positive anisotropy. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15704-7 | 16.4 | 315 |
| 624 | The use of magnetic dilution to elucidate the slow magnetic relaxation effects of a Dy ₂ single-molecule magnet. <i>Journal of the American Chemical Society</i> , 2011 , 133, 8830-3 | 16.4 | 303 |
| 623 | A nonanuclear dysprosium(III)-copper(II) complex exhibiting single-molecule magnet behavior with very slow zero-field relaxation. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 4659-62 | 16.4 | 300 |
| 622 | Hybrid superconductor-quantum dot devices. <i>Nature Nanotechnology</i> , 2010 , 5, 703-11 | 28.7 | 283 |
| 621 | Controlled and reproducible domain wall displacement by current pulses injected into ferromagnetic ring structures. <i>Physical Review Letters</i> , 2005 , 94, 106601 | 7.4 | 281 |
| 620 | A bell-shaped Mn ₁₁ Gd ₂ single-molecule magnet. <i>Journal of the American Chemical Society</i> , 2007 , 129, 9248-9 | 16.4 | 278 |

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| 619 | Single-molecule magnets: a large Mn ₃₀ molecular nanomagnet exhibiting quantum tunneling of magnetization. <i>Journal of the American Chemical Society</i> , 2004 , 126, 2156-65 | 16.4 | 260 |
| 618 | Heterometallic [Mn ₅ -Ln ₄] single-molecule magnets with high anisotropy barriers. <i>Chemistry - A European Journal</i> , 2008 , 14, 3577-84 | 4.8 | 250 |
| 617 | Strong spin-phonon coupling between a single-molecule magnet and a carbon nanotube nanoelectromechanical system. <i>Nature Nanotechnology</i> , 2013 , 8, 165-9 | 28.7 | 249 |
| 616 | The search for 3d-4f single-molecule magnets: synthesis, structure and magnetic properties of a [Mn(III)2Dy(III)2] cluster. <i>Chemical Communications</i> , 2005 , 2086-8 | 5.8 | 247 |
| 615 | Slow magnetic relaxation in a Co(II)-Y(III) single-ion magnet with positive axial zero-field splitting. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9130-4 | 16.4 | 242 |
| 614 | A dimeric manganese(III) tetradentate schiff base complex as a single-molecule magnet. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2801-5 | 16.4 | 242 |
| 613 | [Fe(bpym)(CN) ₄] ⁻ : a new building block for designing single-chain magnets. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4842-53 | 16.4 | 241 |
| 612 | Heterodinuclear Cu-Tb single-molecule magnet. <i>Inorganic Chemistry</i> , 2006 , 45, 5-7 | 5.1 | 241 |
| 611 | "Spin tweaking" of a high-spin molecule: an Mn ₂₅ single-molecule magnet with an S=61/2 ground state. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 884-8 | 16.4 | 238 |
| 610 | Cobalt single-molecule magnet. <i>Journal of Applied Physics</i> , 2002 , 91, 7382 | 2.5 | 238 |
| 609 | Quantum phase transition in a single-molecule quantum dot. <i>Nature</i> , 2008 , 453, 633-7 | 50.4 | 236 |
| 608 | An octanuclear [Cr(III)4Dy(III)4] 3d-4f single-molecule magnet. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7583-7 | 16.4 | 231 |
| 607 | Butterfly hysteresis loop and dissipative spin reversal in the S = 1/2, V15 molecular complex. <i>Physical Review Letters</i> , 2000 , 84, 3454-7 | 7.4 | 226 |
| 606 | Phosphonate ligands stabilize mixed-valent {Mn(III) (20-x)Mn(II)x} clusters with large spin and coercivity. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 5044-8 | 16.4 | 224 |
| 605 | Enhancing the quantum properties of manganese-lanthanide single-molecule magnets: observation of quantum tunneling steps in the hysteresis loops of a {Mn ₁₂ Gd} cluster. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 521-4 | 16.4 | 223 |
| 604 | Series of isostructural planar lanthanide complexes [Ln(III)4(mu ₃ -OH)2(mdeaH)2(piv)8] with single molecule magnet behavior for the Dy ₄ analogue. <i>Inorganic Chemistry</i> , 2010 , 49, 8067-72 | 5.1 | 207 |
| 603 | Studies of a nickel-based single molecule magnet: resonant quantum tunnelling in an S = 12 molecule. <i>Chemical Communications</i> , 2001 , 2666-2667 | 5.8 | 207 |
| 602 | Classical and Quantum Magnetization Reversal Studied in Nanometer-Sized Particles and Clusters. <i>Advances in Chemical Physics</i> , 2007 , 99-190 | 206 | |

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| 601 | "Switching on" the properties of single-molecule magnetism in triangular manganese(III) complexes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 9484-99 | 16.4 | 206 |
| 600 | Linking high anisotropy Dy ₃ triangles to create a Dy ₆ single-molecule magnet. <i>Chemical Communications</i> , 2009 , 1100-2 | 5.8 | 205 |
| 599 | A six-coordinate ytterbium complex exhibiting easy-plane anisotropy and field-induced single-ion magnet behavior. <i>Inorganic Chemistry</i> , 2012 , 51, 8538-44 | 5.1 | 204 |
| 598 | Interplay of strongly anisotropic metal ions in magnetic blocking of complexes. <i>Inorganic Chemistry</i> , 2013 , 52, 6328-37 | 5.1 | 203 |
| 597 | [Mn ₂ (saltmen) ₂ Ni(pao) ₂ (L) ₂](A) ₂ with L=pyridine, 4-picoline, 4-tert-butylpyridine, N-methylimidazole and A=ClO ₄ ⁻ , BF ₄ ⁻ , PF ₆ ⁻ , ReO ₄ ⁻ : a family of single-chain magnets. <i>Inorganic Chemistry</i> , 2003 , 42, 8203-13 | 5.1 | 202 |
| 596 | Macroscopic Quantum Tunneling of Magnetization of Single Ferrimagnetic Nanoparticles of Barium Ferrite. <i>Physical Review Letters</i> , 1997 , 79, 4014-4017 | 7.4 | 199 |
| 595 | A rational approach to the modulation of the dynamics of the magnetisation in a dysprosium-nitronyl-nitroxide radical complex. <i>Chemical Communications</i> , 2007 , 1807-9 | 5.8 | 197 |
| 594 | An azido-bridged disc-like heptanuclear cobalt(II) cluster: towards a single-molecule magnet. <i>Chemical Communications</i> , 2006 , 3302-4 | 5.8 | 196 |
| 593 | Coupling Dy ₃ triangles to maximize the toroidal moment. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12767-71 | 16.4 | 191 |
| 592 | From micro- to nano-SQUIDs: applications to nanomagnetism. <i>Superconductor Science and Technology</i> , 2009 , 22, 064013 | 3.1 | 191 |
| 591 | Tuning anisotropy barriers in a family of tetrairon(III) single-molecule magnets with an S = 5 ground state. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4742-55 | 16.4 | 191 |
| 590 | An S = 6 cyanide-bridged octanuclear Fe _{III} 4Ni _{II} 4 complex that exhibits slow relaxation of the magnetization. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4214-5 | 16.4 | 190 |
| 589 | Observation of the Distribution of Molecular Spin States by Resonant Quantum Tunneling of the Magnetization. <i>Physical Review Letters</i> , 1999 , 82, 3903-3906 | 7.4 | 190 |
| 588 | Glauber dynamics in a single-chain magnet: From theory to real systems. <i>Physical Review B</i> , 2004 , 69, | 3.3 | 189 |
| 587 | Supramolecular "double-propeller" dimers of hexanuclear Cu(II)/Ln(III) complexes: a {Cu ₃ Dy ₃ } ₂ single-molecule magnet. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1614-9 | 16.4 | 186 |
| 586 | Mixed 3d/4d and 3d/4f metal clusters: Tetranuclear Fe ₂ IIIM ₂ III(M _{II} =Ln,Y) and Mn ₂ IVM ₂ III(M=Yb,Y) complexes, and the first Fe/4f single-molecule magnets. <i>Polyhedron</i> , 2006 , 25, 613-625 | 2.7 | 185 |
| 585 | The molecular approach to nanoscale magnetism. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 200, 182-201 | 2.8 | 185 |
| 584 | A single-molecule magnet with a "twist". <i>Journal of the American Chemical Society</i> , 2007 , 129, 8-9 | 16.4 | 184 |

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| 583 | Towards nanostructured arrays of single molecule magnets: new Fe ₁₉ oxyhydroxide clusters displaying high ground state spins and hysteresis. <i>Dalton Transactions RSC</i> , 2000 , 1835-1840 | 183 |
| 582 | Studies of a nickel-based single-molecule magnet. <i>Chemistry - A European Journal</i> , 2002 , 8, 4867-76 | 4.8 179 |
| 581 | Iron polyoxometalate single-molecule magnets. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 3077-81 | 16.4 178 |
| 580 | A [Mn ₁₈ Dy] SMM resulting from the targeted replacement of the central Mn ^{II} in the S = 83/2 [Mn ₁₉]-aggregate with Dy ^{III} . <i>Chemical Communications</i> , 2009 , 544-6 | 5.8 178 |
| 579 | Face-sharing heterotrinuclear M(II)-Ln(III)-M(II) (M = Mn, Fe, Co, Zn; Ln = La, Gd, Tb, Dy) complexes: synthesis, structures, and magnetic properties. <i>Inorganic Chemistry</i> , 2010 , 49, 9125-35 | 5.1 174 |
| 578 | A S = 7 Ground Spin-State Cluster Built from Three Shells of Different Spin Carriers Ferromagnetically Coupled, Transition-Metal Ions and Nitroxide Free Radicals. <i>Journal of the American Chemical Society</i> , 2000 , 122, 718-719 | 16.4 172 |
| 577 | Fast magnetization tunneling in tetranickel(II) single-molecule magnets. <i>Inorganic Chemistry</i> , 2006 , 45, 529-46 | 5.1 171 |
| 576 | Quantum tunneling of magnetization in a new [Mn ₁₈] ₂₊ single-molecule magnet with s = 13. <i>Journal of the American Chemical Society</i> , 2002 , 124, 9710-1 | 16.4 171 |
| 575 | Domain wall pinning in narrow ferromagnetic ring structures probed by magnetoresistance measurements. <i>Physical Review Letters</i> , 2003 , 90, 097202 | 7.4 169 |
| 574 | Single-chain magnet behavior in an alternated one-dimensional assembly of a Mn(III) Schiff-base complex and a TCNQ radical. <i>Chemistry - A European Journal</i> , 2006 , 12, 7028-40 | 4.8 167 |
| 573 | Thermally Activated Relaxation Time of a Single Domain Ferromagnetic Particle Subjected to a Uniform Field at an Oblique Angle to the Easy Axis: Comparison with Experimental Observations. <i>Physical Review Letters</i> , 1998 , 80, 5655-5658 | 7.4 166 |
| 572 | Giant Single-Molecule Magnets: A {Mn ₈₄ } Torus and Its Supramolecular Nanotubes. <i>Angewandte Chemie</i> , 2004 , 116, 2169-2173 | 3.6 165 |
| 571 | Slow relaxation in a one-dimensional rational assembly of antiferromagnetically coupled [Mn ₄] single-molecule magnets. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17353-63 | 16.4 164 |
| 570 | Exchange bias in Ni ₄ single-molecule magnets. <i>Polyhedron</i> , 2003 , 22, 1727-1733 | 2.7 164 |
| 569 | Anchoring of rare-earth-based single-molecule magnets on single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15143-51 | 16.4 163 |
| 568 | Initial example of a triangular single-molecule magnet from ligand-induced structural distortion of a [Mn ₁₁ O ₇] ⁷⁻ complex. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15380-1 | 16.4 162 |
| 567 | One-dimensional supramolecular organization of single-molecule magnets. <i>Journal of the American Chemical Society</i> , 2007 , 129, 5045-51 | 16.4 160 |
| 566 | DC-SQUID magnetization measurements of single magnetic particles. <i>Journal of Magnetism and Magnetic Materials</i> , 1995 , 145, 33-39 | 2.8 160 |

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| 565 | Operating Quantum States in Single Magnetic Molecules: Implementation of Grover's Quantum Algorithm. <i>Physical Review Letters</i> , 2017 , 119, 187702 | 7.4 | 159 |
| 564 | A family of manganese rods: syntheses, structures, and magnetic properties. <i>Journal of the American Chemical Society</i> , 2004 , 126, 15445-57 | 16.4 | 159 |
| 563 | A family of mixed-metal cyanide cubes with alternating octahedral and tetrahedral corners exhibiting a variety of magnetic behaviors including single molecule magnetism. <i>Journal of the American Chemical Society</i> , 2007 , 129, 8139-49 | 16.4 | 157 |
| 562 | Domain wall motion induced by spin polarized currents in ferromagnetic ring structures. <i>Applied Physics Letters</i> , 2003 , 83, 105-107 | 3.4 | 157 |
| 561 | The properties of the [Mn ₁₂ O ₁₂ (O ₂ CR) ₁₆ (H ₂ O) ₄] single-molecule magnets in truly axial symmetry: [Mn ₁₂ O ₁₂ (O ₂ CCH ₂ Br) ₁₆ (H ₂ O) ₄].4CH ₂ Cl ₂ . <i>Journal of the American Chemical Society</i> , 2006 , 128, 6975-89 | 16.4 | 156 |
| 560 | 3d-4f clusters with large spin ground states and SMM behaviour. <i>Dalton Transactions</i> , 2010 , 39, 4747-50 | 4.3 | 155 |
| 559 | DFT computational rationalization of an unusual spin ground state in an Mn ₁₂ single-molecule magnet with a low-symmetry loop structure. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 897-901 | 16.4 | 153 |
| 558 | High-nucularity, high-symmetry, high-spin molecules: A mixed-valence Mn ₁₀ cage possessing rare T symmetry and an S = 22 ground state. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 4134-7 | 16.4 | 151 |
| 557 | Molecular spin qudits for quantum algorithms. <i>Chemical Society Reviews</i> , 2018 , 47, 501-513 | 58.5 | 151 |
| 556 | A single-molecule magnet assembly exhibiting a dielectric transition at 470 K. <i>Chemical Science</i> , 2012 , 3, 3366 | 9.4 | 150 |
| 555 | A mixed-valence Co ₇ single-molecule magnet with C ₃ symmetry. <i>Chemical Communications</i> , 2007 , 3473-5.8 | 5.8 | 149 |
| 554 | Nuclear spin driven quantum relaxation in LiY _{0.998} Ho _{0.002} F ₄ . <i>Physical Review Letters</i> , 2001 , 87, 057203 | 7.4 | 149 |
| 553 | New structural motifs in manganese single-molecule magnetism from the use of triethanolamine ligands. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 892-6 | 16.4 | 148 |
| 552 | A pentanuclear manganese single-molecule magnet with a large anisotropy. <i>Journal of the American Chemical Society</i> , 2007 , 129, 456-7 | 16.4 | 147 |
| 551 | Defect-dicubane Ni ₂ Ln ₂ (Ln = Dy, Tb) single molecule magnets. <i>Inorganic Chemistry</i> , 2011 , 50, 11604-11 | 5.1 | 145 |
| 550 | Single-molecule magnets: two-electron reduced version of a Mn ₁₂ complex and environmental influences on the magnetization relaxation of (PPh ₄) ₂ [Mn(12)O(12)(O ₂ CCHCl ₂)(16)(H ₂ O) ₄]. <i>Journal of the American Chemical Society</i> , 2003 , 125, 3576-88 | 16.4 | 144 |
| 549 | Nonadiabatic Landau-Zener tunneling in Fe 8 molecular nanomagnets. <i>Europhysics Letters</i> , 2000 , 50, 552-558 | 5.8 | 144 |
| 548 | Magnetic anisotropy in single clusters. <i>Physical Review B</i> , 2004 , 69, | 3.3 | 143 |

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| 547 | Effects of nuclear spins on the quantum relaxation of the magnetization for the molecular nanomagnet Fe8. <i>Physical Review Letters</i> , 2000 , 84, 2965-8 | 7.4 | 142 |
| 546 | Supramolecular architectures for controlling slow magnetic relaxation in field-induced single-molecule magnets. <i>Chemical Science</i> , 2012 , 3, 2158 | 9.4 | 140 |
| 545 | Spin switching via targeted structural distortion. <i>Journal of the American Chemical Society</i> , 2007 , 129, 6547-61 | 16.4 | 140 |
| 544 | Mixed-valence Mn ^{II} Mn ^{IV} clusters [Mn ₇ O ₈ (O ₂ SePh) ₈ (O ₂ CMe)(H ₂ O)] and [Mn ₇ O ₈ (O ₂ SePh) ₉ (H ₂ O)]: single-chain magnets exhibiting quantum tunneling of magnetization. <i>Inorganic Chemistry</i> , 2004 , 43, 5919-30 | 5.1 | 140 |
| 543 | Hyperfine-Interaction-Driven Suppression of Quantum Tunneling at Zero Field in a Holmium(III) Single-Ion Magnet. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4996-5000 | 16.4 | 139 |
| 542 | Attempting to understand (and control) the relationship between structure and magnetism in an extended family of Mn(6) single-molecule magnets. <i>Dalton Transactions</i> , 2009 , 3403-12 | 4.3 | 139 |
| 541 | An Ni ₄ Single-Molecule Magnet: Synthesis, Structure and Low-Temperature Magnetic Behavior. <i>European Journal of Inorganic Chemistry</i> , 2004 , 2004, 2219-2222 | 2.3 | 139 |
| 540 | Synthesis, structure, and magnetic properties of a [Mn ₂₂] wheel-like single-molecule magnet. <i>Inorganic Chemistry</i> , 2004 , 43, 4203-9 | 5.1 | 139 |
| 539 | Field-induced hysteresis and quantum tunneling of the magnetization in a mononuclear manganese(III) complex. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 14075-9 | 16.4 | 138 |
| 538 | Mn ₂₁ Dy cluster with a record magnetization reversal barrier for a mixed 3d/4f single-molecule magnet. <i>Inorganic Chemistry</i> , 2011 , 50, 421-3 | 5.1 | 138 |
| 537 | The first high oxidation state manganese-calcium cluster: relevance to the water oxidizing complex of photosynthesis. <i>Chemical Communications</i> , 2005 , 54-6 | 5.8 | 138 |
| 536 | Coexistence of magnetization relaxation and dielectric relaxation in a single-chain magnet. <i>Journal of the American Chemical Society</i> , 2006 , 128, 16428-9 | 16.4 | 137 |
| 535 | Slow relaxation of magnetisation in an octanuclear cobalt(II) phosphonate cage complex. <i>Chemical Communications</i> , 2005 , 5029-31 | 5.8 | 137 |
| 534 | Synthesis, structure, and magnetic properties of a Mn(21) single-molecule magnet. <i>Inorganic Chemistry</i> , 2004 , 43, 4137-44 | 5.1 | 136 |
| 533 | Slow magnetic relaxation in a mononuclear eight-coordinate cobalt(II) complex. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12213-6 | 16.4 | 135 |
| 532 | Realization of a magnet using an antiferromagnetic phase of single-chain magnets. <i>Physical Review Letters</i> , 2009 , 102, 167204 | 7.4 | 134 |
| 531 | Heterometallic Cu ^{II} /Dy ^{III} 1D chiral polymers: chirogenesis and exchange coupling of toroidal moments in trinuclear Dy ₃ single molecule magnets. <i>Chemical Science</i> , 2012 , 3, 1169 | 9.4 | 133 |
| 530 | Ising-type magnetic anisotropy and single molecule magnet behaviour in mononuclear trigonal bipyramidal Co(II) complexes. <i>Chemical Science</i> , 2014 , 5, 3418 | 9.4 | 130 |

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|-----|---|------|-----|
| 529 | Tetranuclear [Cu-Ln]2 single molecule magnets: synthesis, structural and magnetic studies. <i>Dalton Transactions</i> , 2008 , 1843-9 | 4.3 | 130 |
| 528 | Spin-parity dependent tunneling of magnetization in single-molecule magnets. <i>Physical Review B</i> , 2002 , 65, | 3.3 | 129 |
| 527 | Measurements of magnetization switching in individual nickel nanowires. <i>Physical Review B</i> , 1997 , 55, 11552-11559 | 3.3 | 125 |
| 526 | Single-molecule magnetism in cyclopentadienyl-dysprosium chlorides. <i>Chemical Communications</i> , 2012 , 48, 1508-10 | 5.8 | 124 |
| 525 | A family of 3d-4f octa-nuclear [Mn(III)(4)Ln(III)(4)] wheels (Ln = Sm, Gd, Tb, Dy, Ho, Er, and Y): synthesis, structure, and magnetism. <i>Inorganic Chemistry</i> , 2010 , 49, 11587-94 | 5.1 | 124 |
| 524 | Energy-barrier enhancement by ligand substitution in tetrairon(III) single-molecule magnets. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 1136-9 | 16.4 | 124 |
| 523 | Quantum tunneling and quantum phase interference in a [Mn(II)2Mn(III)2] single-molecule magnet. <i>Journal of the American Chemical Society</i> , 2005 , 127, 11311-7 | 16.4 | 123 |
| 522 | Magnetic relaxation of single-molecule magnets in an external magnetic field: an ising dimer of a terbium(III)-phthalocyaninate triple-decker complex. <i>Chemistry - A European Journal</i> , 2011 , 17, 117-22 | 4.8 | 122 |
| 521 | A family of 3D coordination polymers composed of Mn(19) magnetic units. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 7722-5 | 16.4 | 122 |
| 520 | A Mn17 octahedron with a giant ground-state spin: occurrence in discrete form and as multidimensional coordination polymers. <i>Inorganic Chemistry</i> , 2009 , 48, 5049-51 | 5.1 | 121 |
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