

Molecular spintronics using single-molecule magnets

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Quantum dynamics in molecular nanomagnets. <i>Comptes Rendus Chimie</i> , 2008, 11, 1086-1109.	0.2	33
2	XAS and XMCD Investigation of Mn ₁₂ Monolayers on Gold. <i>Chemistry - A European Journal</i> , 2008, 14, 7530-7535.	1.7	122
3	Reaching Optimal Light-Induced Intramolecular Spin Alignment within Photomagnetic Molecular Device Prototypes. <i>Chemistry - A European Journal</i> , 2008, 14, 11385-11405.	1.7	28
4	Covalently Linked Dimers of Clusters: Loop- and Dumbbell-Shaped Mn ₂₄ and Mn ₂₆ Single-Molecule Magnets. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6694-6698.	7.2	118
6	Molecular nanomagnetism in Florence: Advancements and perspectives. <i>Inorganica Chimica Acta</i> , 2008, 361, 3356-3364.	1.2	27
7	Hexacyanidometalate molecular chemistry, part III: di-, tri-, tetra-, hexa- and hepta-nuclear chromium-nickel complexes: Control of spin, structural anisotropy, intra- and inter-molecular exchange couplings. <i>Inorganica Chimica Acta</i> , 2008, 361, 3505-3518.	1.2	46
8	A perspective on combining molecular nanomagnets and carbon nanotube electronics. <i>Inorganica Chimica Acta</i> , 2008, 361, 3807-3819.	1.2	32
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10	Tunnelling spectra of individual magnetic endofullerene molecules. <i>Nature Materials</i> , 2008, 7, 884-889.	13.3	102
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16	Synthesis and characterisation of a Ni ₄ single-molecule magnet with S ₄ symmetry. <i>Dalton Transactions</i> , 2008, , 6409.	1.6	83
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18	Single Chain Magnets Based on the Oxalate Ligand. <i>Journal of the American Chemical Society</i> , 2008, 130, 14987-14989.	6.6	127
19	A 64-Nuclear Cubic Cage Incorporating Propeller-like Fe ^{III} ₈ Apices and HCOO ⁻ Edges. <i>Journal of the American Chemical Society</i> , 2008, 130, 10500-10501.	6.6	182

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29	Nonequilibrium dynamical ferromagnetism of interacting single-molecule magnets. <i>Applied Physics Letters</i> , 2009, 95, 183110.	1.5	4
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59	Adventures in the Coordination Chemistry of Di ² -pyridyl Ketone and Related Ligands: From High-Spin Molecules and Single-Molecule Magnets to Coordination Polymers, and from Structural Aesthetics to an Exciting New Reactivity Chemistry of Coordinated Ligands. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 3361-3391.	1.0	112
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714	nanomagnet Cu<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:mrow></math>	1.1	20
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1099	Combined first-principles and thermodynamic approach to M-nitronyl nitroxideM xmlns:mml="http://www.w3.org/1998/Math/MathML">M-nitronyl nitroxideM xmlns:mml="http://www.w3.org/1998/Math/MathML">M=) Tj ETQq0 0 0 rgBT	1.1	15
1100	Amending the Anisotropy Barrier and Luminescence Behavior of Heterometallic Trinuclear Linear [M ^{II} Ln ^{III} M ^{II}] (Ln ^{III} =Gd, Tb, Dy); Tj ETQq1 1 0.784314 rgBT] ,Overlock 10 Tf 50 Chemistry - A European Journal, 2015, 21, 6449-6464.	1.7	59
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1804	Greatly enhanced spin filtering of single ferrocene devices: An ab initio study. <i>Organic Electronics</i> , 2018, 62, 227-233.	1.4	1
1805	Collective dipolar relaxations in a molecular nanomagnet, Mn ₁₂ -acetate. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 466, 289-294.	1.0	0
1806	Equilibrium and real-time properties of the spin correlation function in the two-impurity Kondo model. <i>Physical Review B</i> , 2018, 98, .	1.1	3

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1808	Molecular Engineering of High Energy Barrier in Single-Molecule Magnets Based on [MoIII(CN)7]4 ⁻ and V(II) Complexes. <i>Inorganics</i> , 2018, 6, 58.	1.2	9
1809	Towards Controlled Single-Molecule Manipulation Using <i>Real-Time</i> Molecular Dynamics Simulation: A GPU Implementation. <i>Micromachines</i> , 2018, 9, 270.	1.4	4
1810	Experimental and theoretical exploration of magnetic exchange interactions and single-molecule magnetic behaviour of bis(μ -1,2- <i>carboxylate</i>)GdIII2/DyIII2 systems. <i>Dalton Transactions</i> , 2018, 47, 11455-11469.	1.6	27
1811	Chemical and <i>in silico</i> tuning of the magnetisation reversal barrier in pentagonal bipyramidal Dy(<i>iii</i>) single-ion magnets. <i>Chemical Communications</i> , 2018, 54, 8273-8276.	2.2	68
1812	Slow Magnetic Relaxation in Lanthanoid Crown Ether Complexes: Interplay of Raman and Anomalous Phonon Bottleneck Processes. <i>Chemistry - A European Journal</i> , 2018, 24, 14768-14785.	1.7	42
1813	Structure and Single-Molecule Magnetic Property of a Dinuclear Dy ₂ Complex Bridged by the 4-Methylpyridine <i>N</i> -Oxide Ligand. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 3668-3674.	1.0	4
1814	Slow magnetic relaxation in octahedral low-spin Ni(<i>iii</i>) complexes. <i>Chemical Science</i> , 2018, 9, 6564-6571.	3.7	53
1815	Chiral and kryptoracemic Dy(<i>iii</i>) complexes with field-induced single molecule magnet behavior. <i>CrystEngComm</i> , 2018, 20, 4582-4589.	1.3	6
1816	Heterometallic Cu/Ln cluster chemistry: ferromagnetically-coupled {Cu ₄ Ln ₂ } complexes exhibiting single-molecule magnetism and magnetocaloric properties. <i>Dalton Transactions</i> , 2018, 47, 11934-11941.	1.6	20
1817	A difunctional azido-cobalt(<i>ii</i>) coordination polymer exhibiting slow magnetic relaxation behaviour and high-energy characteristics with good thermostability and insensitivity. <i>Dalton Transactions</i> , 2018, 47, 12092-12104.	1.6	34
1818	Orbital-selective spin excitation of a magnetic porphyrin. <i>Communications Physics</i> , 2018, 1, .	2.0	31
1819	Conducting single-molecule magnet materials. <i>Dalton Transactions</i> , 2018, 47, 7616-7627.	1.6	40
1820	Atomistic Framework for Time-Dependent Thermal Transport. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21062-21068.	1.5	3
1821	Partial magnetic ordering in one-dimensional arrays of endofullerene single-molecule magnet peapods. <i>Nanoscale</i> , 2018, 10, 18153-18160.	2.8	15
1822	Enhancing single-molecule magnet behavior of linear CoII-DyIII CoII complex by introducing bulky diamagnetic moiety. <i>Science China Chemistry</i> , 2018, 61, 1399-1404.	4.2	24
1823	Synthesis, Structural, and Magnetic Characterization of a Mixed 3d/4f 12-Metallacrown-4 Family of Complexes. <i>Inorganics</i> , 2018, 6, 66.	1.2	8
1824	Single-Molecule Magnet Behavior of 1D Coordination Polymers Based on DyZn ₂ (salen) ₂ Units and Pyridin- <i>N</i> -Oxide-4-Carboxylate: Structural Divergence and Magnetic Regulation. <i>Inorganic Chemistry</i> , 2018, 57, 11077-11086.	1.9	34

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1826	Syntheses, crystal structures and magnetic properties of a series of ZnII LnIII compounds (Ln = Gd, Tb). <i>Journal of Inorganic Chemistry</i> , 2018, 2018, 15917-15929.	1.4	6
1827	Planar polycubane single-molecule magnet [Ni ₆ (pymeid) ₆ Ni ₁₂ (OH) ₆ (μ ₃ OH) ₁₆ Cl ₂ (H ₂ O) ₂] ₂ ·38H ₂ O: Experiment and theory. <i>Inorganica Chimica Acta</i> , 2018, 483, 480-487.	1.2	5
1828	Massively parallel fabrication of crack-defined gold break junctions featuring sub-3 nm gaps for molecular devices. <i>Nature Communications</i> , 2018, 9, 3433.	5.8	59
1829	Translation of metal-phthalocyanines adsorbed on Au(111): from van der Waals interaction to strong electronic correlation. <i>Scientific Reports</i> , 2018, 8, 12728.	1.6	10
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1834	Reversible structural transformation induced switchable single-molecule magnet behavior in lanthanide metal-organic frameworks. <i>Chemical Communications</i> , 2018, 54, 10183-10186.	2.2	44
1835	DySc ₂ N@C ₈₀ Single-Molecule Magnetic Metallofullerene Encapsulated in a Single-Walled Carbon Nanotube. <i>Journal of the American Chemical Society</i> , 2018, 140, 10955-10959.	6.6	60
1836	New insights into oximic ligands: Synthesis and characterization of 1D chains by the use of pyridine 2-amidoxime and polycarboxylates. <i>Polyhedron</i> , 2018, 151, 360-368.	1.0	7
1837	Arrayed Octahedral {Cr ₂ Dy ₄ } Units into 3D Single-Molecule-Magnet-Like Inorganic Compounds with Sulfate Bridges. <i>Inorganic Chemistry</i> , 2018, 57, 6803-6806.	1.9	13
1838	Heterometallic 3d-4f single molecule magnets containing diamagnetic metal ions. <i>Dalton Transactions</i> , 2018, 47, 8841-8864.	1.6	69
1839	Magnetic relaxation in cobalt(ii)-based single-ion magnets influenced by distortion of the pseudotetrahedral [N ₂ O ₂] coordination environment. <i>Dalton Transactions</i> , 2018, 47, 10861-10873.	1.6	27
1840	Four tetra-nuclear lanthanide complexes based on 8-hydroxyquinolin derivatives: magnetic refrigeration and single-molecule magnet behaviour. <i>New Journal of Chemistry</i> , 2018, 42, 11847-11853.	1.4	39
1841	Ln(III)-based SIMs. , 2018, , 195-231.		5
1842	OLIFE: Tight Binding Code for Transmission Coefficient Calculation. <i>Journal of Physics: Conference Series</i> , 2018, 1003, 012114.	0.3	10

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1844	Mn ^{III} /Fe ^{III} Heterometallic Compounds within Hydrogen-Bonded Supramolecular Networks Promoted by an [Fe(CN) ₅ (CNH)] ²⁻ Building Block: Structural and Magnetic Properties. <i>Inorganic Chemistry</i> , 2018, 57, 7892-7903.	1.9	8
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1857	Controllable syntheses and magnetic properties of novel homoleptic triple-decker lanthanide complexes. <i>Dalton Transactions</i> , 2019, 48, 13360-13368.	1.6	9
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1859	Slow magnetic relaxation of Ln(III)-nitronyl nitroxide radical complexes with shortest non-covalent O ⁺ O contacts. <i>Journal of Molecular Structure</i> , 2019, 1197, 666-671.	1.8	2
1860	How to link theory and experiment for single-chain magnets beyond the Ising model: magnetic properties modeled from <i>ab initio</i> calculations of molecular fragments. <i>Chemical Science</i> , 2019, 10, 9189-9202.	3.7	29

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1862	Excited-state effects on magnetic properties of U(ⁱⁱⁱ) and U(^{iv}) pyrazolylborate complexes. <i>Chemical Communications</i> , 2019, 55, 10611-10614.	2.2	5
1863	Sizeable Effect of Lattice Solvent on Field Induced Slow Magnetic Relaxation in Seven Coordinated Co ^{II} Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 10686-10693.	1.9	31
1864	Electronic Communication as a Transferable Property of Molecular Bridges?. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10205-10223.	1.1	25
1865	A graphene-based hybrid material with quantum bits prepared by the double Langmuir-Schaefer method. <i>RSC Advances</i> , 2019, 9, 24066-24073.	1.7	9
1866	A single-ion single-electron cerrous magnet. <i>Dalton Transactions</i> , 2019, 48, 15928-15935.	1.6	14
1867	Microwave assisted synthesis of heterometallic 3d ⁴ f M ₄ Ln complexes. <i>Dalton Transactions</i> , 2019, 48, 12440-12450.	1.6	19
1868	Outstanding Energy Exchange between Organic Molecules and Metal Surfaces: Decomposition Kinetics of Excited Vinyl Derivatives Driven by the Interaction with a Cu(111) Surface. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19625-19636.	1.5	6
1870	Micromagnetic Configuration of Variable Nanostructured Cobalt Ferrite: Modulating and Simulations toward Memory Devices. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28442-28448.	4.0	6
1871	Field-induced slow magnetic relaxation in two-dimensional and three-dimensional Co(ⁱⁱ) coordination polymers. <i>Dalton Transactions</i> , 2019, 48, 15529-15536.	1.6	15
1873	Heterometallic 3d ⁴ f Complexes as Single-Molecule Magnets. <i>Chemistry - an Asian Journal</i> , 2019, 14, 4433-4453.	1.7	76
1874	Ligand ratio/solvent-influenced syntheses, crystal structures, and magnetic properties of polydentate Schiff base ligand-Dy(ⁱⁱⁱ) compounds with β^2 -diketonate ligands as co-ligands. <i>Dalton Transactions</i> , 2019, 48, 12466-12481.	1.6	26
1875	Three Sequential Hydrolysis Products of the Ubiquitous Cu ₂₄ Isophthalate Metal-Organic Polyhedra. <i>Inorganic Chemistry</i> , 2019, 58, 9874-9881.	1.9	14
1876	Two-dimensional heterometallic Cu ^{II} Ln ^{III} (Ln = Tb and Dy) coordination polymers bridged by dicyanamides showing slow magnetic relaxation behavior. <i>CrystEngComm</i> , 2019, 21, 5145-5151.	1.3	10
1877	Towards comparative investigation of Er- and Yb-based SMMs: the effect of the coordination environment configuration on the magnetic relaxation in the series of heteroleptic thiocyanate complexes. <i>Dalton Transactions</i> , 2019, 48, 12644-12655.	1.6	33
1878	A square antiprism dysprosium single-ion magnet with an energy barrier over 900 K. <i>Chemical Communications</i> , 2019, 55, 9939-9942.	2.2	62
1879	Near-infrared emissive Er(ⁱⁱⁱ) and Yb(ⁱⁱⁱ) molecular nanomagnets in metal-organic chains functionalized by octacyanidometallates(^{iv}). <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2423-2434.	3.0	38
1880	Synthesis, structure and magnetic properties of a series of Ln(ⁱⁱⁱ) complexes with radical-anionic iminopyridine ligands: effect of lanthanide ions on the slow relaxation of the magnetization. <i>Dalton Transactions</i> , 2019, 48, 12018-12022.	1.6	15

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1882	Synthesis, Crystal Structures, Magnetic Properties, and Fluorescence of Two Heptanuclear $\text{Co}^{\text{III}}_4\text{Ln}^{\text{III}}_3$ Compounds ($\text{Ln} = \text{Gd}^{\text{III}}$), <i>Inorganic Chemistry</i> , 2019, 2019, 3411-3423.	1.0	10
1883	Investigation of the magnetic anisotropy in a series of trigonal bipyramidal $\text{Mn}(\text{II})$ complexes. <i>Dalton Transactions</i> , 2019, 48, 15480-15486.	1.6	10
1884	Molecular Helmholtz coils. <i>Journal of Chemical Physics</i> , 2019, 151, 014102.	1.2	3
1885	Synthesis, structure and magnetic properties of a series of dinuclear heteroleptic $\text{Zn}^{2+}/\text{Ln}^{3+}$ Schiff base complexes: effect of lanthanide ions on the slow relaxation of magnetization. <i>Dalton Transactions</i> , 2019, 48, 11637-11641.	1.6	5
1886	Metal-Organic Frameworks as Playgrounds for Reticulate Single-Molecule Magnets. <i>Inorganic Chemistry</i> , 2019, 58, 14498-14506.	1.9	23
1887	Hydrogen-Bonding-Driven Ion-Pair Formation in Protic Ionic Liquid Aqueous Solution. <i>ChemPhysChem</i> , 2019, 20, 3259-3268.	1.0	7
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1889	Air-Stable Hexagonal Bipyramidal Dysprosium(III) Single-Ion Magnets with Nearly Perfect D_{6h} Local Symmetry. <i>Chemistry - A European Journal</i> , 2019, 25, 16219-16224.	1.7	99
1890	Probing Weakly Hybridized Magnetic Molecules by Single-Atom Magnetometry. <i>Nano Letters</i> , 2019, 19, 9013-9018.	4.5	9
1891	Magnetic Hysteresis of Single-Molecule Magnets Adsorbed on Ferromagnetic Substrate. <i>ACS Nano</i> , 2019, ., .	7.3	1
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1893	Radical Dimerization in a Plastic Organic Crystal Leads to Structural and Magnetic Bistability with Wide Thermal Hysteresis. <i>Journal of the American Chemical Society</i> , 2019, 141, 17989-17994.	6.6	31
1894	A Series of High-Nuclear $3d^4$ $\text{Fe}^{\text{III}}_8\text{Ln}^{\text{III}}_2$ Complexes: Syntheses, Structures, and Magnetic Properties. <i>Applied Organometallic Chemistry</i> , 2019, 33, e5222.	1.7	17
1895	Magnetic force microscopy revealing long range molecule impact on magnetic tunnel junction based molecular spintronics devices. <i>Organic Electronics</i> , 2019, 75, 105421.	1.4	19
1896	Heterometallic $\text{Ln}^{\text{III}}\text{Cu}$ complexes derived from a phenyl pyrimidyl substituted nitronyl nitroxide biradical. <i>Dalton Transactions</i> , 2019, 48, 14383-14389.	1.6	10
1897	Room temperature magnetism of ordered porphyrin layers on Fe. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	12
1898	Sensitization of visible and NIR emitting lanthanide(III) ions in a series of dinuclear complexes of formula $[\text{Ln}_2(\text{H}_2\text{O})_2(\text{FBz})_2(\text{terpy})_2] \cdot 2(\text{HFBz}) \cdot 2(\text{H}_2\text{O})$. <i>Polyhedron</i> , 2019, 173, 114113.	1.0	11

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1900	A heterotrimetallic synthetic approach in versatile functionalization of nanosized {MxCu ₁₃ W ₇ } ³⁺ and {M ₁ Cu ₈ W ₆ } (M = Co, Ni, Mn, Fe) metal-cyanide magnetic clusters. Inorganic Chemistry Frontiers, 2019, 6, 3104-3118.	3.0	8
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1912	Chiral dinuclear Ln(III) complexes derived from S- and R-2-(6-methoxy-2-naphthyl)propionate. Optical and magnetic properties. Dalton Transactions, 2019, 48, 2059-2067.	1.6	25
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1918	Determination of Energy-Level Alignment in Molecular Tunnel Junctions by Transport and Spectroscopy: Self-Consistency for the Case of Oligophenylene Thiols and Dithiols on Ag, Au, and Pt Electrodes. <i>Journal of the American Chemical Society</i> , 2019, 141, 3670-3681.	6.6	90
1919	Molecular modeling of transition metal and rare earth coordination compounds. <i>Advances in Inorganic Chemistry</i> , 2019, , 305-322.	0.4	3
1920	Molecular multifunctionality preservation upon surface deposition for a chiral single-molecule magnet. <i>Chemical Science</i> , 2019, 10, 3065-3073.	3.7	22
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1922	Million-fold Relaxation Time Enhancement across a Series of Phosphino-Supported Erbium Single-Molecule Magnets. <i>Journal of the American Chemical Society</i> , 2019, 141, 1913-1917.	6.6	59
1923	Hard <i>versus</i> soft: zero-field dinuclear Dy(ⁱⁱⁱ) oxygen bridged SMM and theoretical predictions of the sulfur and selenium analogues. <i>Dalton Transactions</i> , 2019, 48, 2872-2876.	1.6	17
1924	Electric Field Control of Spins in Molecular Magnets. <i>Physical Review Letters</i> , 2019, 122, 037202.	2.9	64
1925	Substituent dependence on the spin crossover behaviour of mononuclear Fe(ⁱⁱ) complexes with asymmetric tridentate ligands. <i>Dalton Transactions</i> , 2019, 48, 3231-3236.	1.6	9
1926	Temperature driven magnetic transitions in FePd ₃ filled monolayer carbon foam and Fe ₃ C/±-Fe filled carbon nanotubes. <i>Journal of Applied Physics</i> , 2019, 125, 024302.	1.1	5
1927	Spin-filtering and tunneling magnetoresistance effects in 6,6,12-graphyne-based molecular magnetic tunnel junctions. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2734-2742.	1.3	6
1928	Regulation of magnetic relaxation behavior by replacing 3d transition metal ions in [M ₂ Dy ₂] complexes containing two different organic chelating ligands. <i>Dalton Transactions</i> , 2019, 48, 10011-10022.	1.6	27
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1930	Singular Nonmagnetic Semiconductor ScH ₃ Molecular Nanowire: A New Type of Room-Temperature Spintronic Material. <i>Journal of Physical Chemistry C</i> , 2019, 123, 16994-17001.	1.5	7
1931	Magnetic anisotropy and slow magnetic relaxation processes of cobalt(ⁱⁱ)-pseudohalide complexes. <i>Dalton Transactions</i> , 2019, 48, 10743-10752.	1.6	23
1932	Deciphering the origin of variation in the spin ground state and oxidation state of a {Mn ₁₉ } cluster on a Au(111) surface: is the Au(111) surface innocent?. <i>Chemical Communications</i> , 2019, 55, 8238-8241.	2.2	8
1933	Field-induced slow magnetic relaxation in a mononuclear Gd(III) complex. <i>Inorganic Chemistry Communication</i> , 2019, 107, 107449.	1.8	12
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1935	Adsorption of free-base phthalocyanine on Stone-Wales defect-containing carbon nanotubes: A DFT study. <i>Diamond and Related Materials</i> , 2019, 97, 107443.	1.8	24
1936	A Novel Family of Triangular Co_2LnIII and Co_2YIII Clusters by the Employment of Di-2-Pyridyl Ketone. <i>Magnetochemistry</i> , 2019, 5, 35.	1.0	8
1937	Effect of π -aromatic spacers on the magnetic properties and slow relaxation of double stranded metallacyclophanes with a $\text{LnIII}^{\text{MII}}^{\text{MII}}^{\text{LnIII}}$ ($\text{LnIII}^{\text{=}}^{\text{=}}^{\text{GdIII}}$, DyIII , YIII ; $\text{MII}^{\text{=}}^{\text{=}}^{\text{NiII}}$, CoII) linear topology. <i>Polyhedron</i> , 2019, 170, 373-387.	1.0	6
1938	Coordinated Molecule-Modulated Magnetic Phase with Metamagnetism in Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2019, 58, 8895-8899.	1.9	17
1939	Single-molecule quantum-transport phenomena in break junctions. <i>Nature Reviews Physics</i> , 2019, 1, 381-396.	11.9	209
1940	Single-Molecule-Magnet $\text{Fe}^{\text{II}}_{\text{4}}\text{Fe}^{\text{III}}_{\text{2}}$ and Antiferromagnetic $\text{Fe}^{\text{III}}_{\text{4}}$ Coordination Clusters. <i>Inorganic Chemistry</i> , 2019, 58, 8086-8099.	1.9	9
1941	A Record-Breaking Loading Capacity for Single-Molecule Magnet Mn_{12} Clusters Achieved in a Mesoporous Ln-MOF. <i>ACS Applied Electronic Materials</i> , 2019, 1, 804-809.	2.0	16
1942	A dichlorido-bridged dinuclear $\text{Dy}^{\text{III}}_{\text{2}}$ single-molecule magnet with an effective energy barrier larger than 600 K. <i>Chemical Communications</i> , 2019, 55, 7930-7933.	2.2	43
1943	Unraveling the intrinsic magnetic property of triangular zigzag edge bilayer graphene nanoflakes: A first-principles theoretical study. <i>Chemical Physics Letters</i> , 2019, 730, 326-331.	1.2	14
1944	Spin-Crossover and Coherent Transport Behaviors of a Six-Coordinate Iron(II) Complex with a $\text{N}_{\text{4}}\text{O}_{\text{2}}$ Donor Set. <i>Journal of Physical Chemistry C</i> , 2019, 123, 16366-16372.	1.5	15
1945	Magnetically tunable organic semiconductors with superparamagnetic nanoparticles. <i>Materials Horizons</i> , 2019, 6, 1913-1922.	6.4	5
1946	Molecular spintronics using single-molecule magnets under irradiation. <i>Physical Review B</i> , 2019, 99, .	1.1	22
1947	A mononuclear dysprosium(Dy^{III}) single-molecule magnet with a non-planar metallacrown. <i>New Journal of Chemistry</i> , 2019, 43, 8704-8710.	1.4	17
1948	Luminescent single-molecule magnet of metallofullerene DyErScN@Ih-C_{80} . <i>Nano Research</i> , 2019, 12, 1727-1731.	5.8	27
1949	Spin backflow: A non-Markovian effect on spin pumping. <i>Physical Review B</i> , 2019, 99, .	1.1	5
1950	Chain length effect in the functionalization of polyoxometalates with $\hat{\pm}$ %-alkyldiphosphonates. <i>Chemical Communications</i> , 2019, 55, 6547-6550.	2.2	18
1951	Homodinuclear lanthanide 9-anthracenecarboxylate complexes: Field induced SMM and NIR-luminescence. <i>Polyhedron</i> , 2019, 169, 187-194.	1.0	11
1952	Spin properties of single-molecule magnet of double-decker Tb(III)-phthalocyanine (TbPc_2) on ferromagnetic Co film characterized by spin polarized STM (SP-STM). <i>Journal of Applied Physics</i> , 2019, 125, 183901.	1.1	12

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1954	Thermodynamics and Magnetic Excitations in Quantum Spin Trimers: Applications for the Understanding of Molecular Magnets. <i>Crystals</i> , 2019, 9, 93.	1.0	7
1955	Series of Chloranilate-Bridged Dinuclear Lanthanide Complexes: Kramers Systems Showing Field-Induced Slow Magnetic Relaxation. <i>Magnetochemistry</i> , 2019, 5, 30.	1.0	8
1956	Spin-Transport Tuning of Individual Magnetic Mn-Salophen Molecule via Chemical Adsorption. <i>Molecules</i> , 2019, 24, 1747.	1.7	6
1957	Structures, Single-Molecule Magnets, and Fluorescent Properties of Four Dinuclear Lanthanide Complexes Based on 4-Azotriazolyl-3-hydroxy-2-naphthoic Acid. <i>Inorganic Chemistry</i> , 2019, 58, 5914-5921.	1.9	28
1958	Effect of Noble Metals on Luminescence and Single-Molecule Magnet Behavior in the Cyanido-Bridged Ln ^{II} -Ag and Ln ^{II} -Au (Ln = Dy, Yb, Er) Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 5677-5687.	1.9	42
1959	Tunnel magnetoresistance of a supramolecular spin valve. <i>Europhysics Letters</i> , 2019, 125, 18004.	0.7	2
1960	Epitaxial and contamination-free Co(0001) electrodes on insulating substrates for molecular spintronic devices. <i>Thin Solid Films</i> , 2019, 680, 67-74.	0.8	1
1961	Three new metal coordination polymers of bifunctional imidazolate/tetrazolate bridges: the only example of a three-dimensional framework based on rare [Co ₄ (μ ₃ -OH) ₂ (μ ₂ -Cl) ₂] ⁴⁺ mixed oxo-chloro-clusters. <i>RSC Advances</i> , 2019, 9, 13082-13087.	1.7	2
1962	N3O6 versus N2O6 coordinated dysprosium slow magnetic relaxation in a tetrathiafulvalene-based dinuclear complex. <i>Polyhedron</i> , 2019, 168, 28-36.	1.0	4
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1965	Theoretical study of laser-induced ultrafast spin dynamics in small iron-benzene clusters and of related laser and magnetic-field effects. <i>Physical Review B</i> , 2019, 99, .	1.1	7
1966	Ligand Effects on the Linear Response Hubbard U: The Case of Transition Metal Phthalocyanines. <i>Journal of Physical Chemistry A</i> , 2019, 123, 3214-3222.	1.1	6
1967	1D coordination polymer (OPD) ₂ Co ^{II} SO ₄ showing SMM behaviour and multiple relaxation modes. <i>Dalton Transactions</i> , 2019, 48, 7560-7570.	1.6	13
1968	A Trigonal Prismatic Cobalt(II) Complex as a Single Molecule Magnet with a Reduced Contribution from Quantum Tunneling. <i>ChemPhysChem</i> , 2019, 20, 1001-1005.	1.0	37
1969	Computational Versus Experimental Spectroscopy for Transition Metals. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2019, , 161-183.	0.6	1
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1973	Slow magnetization dynamics in a six-coordinate Fe(ii) radical complex. Dalton Transactions, 2019, 48, 4514-4519.	1.6	6
1974	Rational Improvement of Single-Molecule Magnets by Enforcing Ferromagnetic Interactions. Chemistry - A European Journal, 2019, 25, 4992-5004.	1.7	8
1975	Spin structure and optical properties of cobalt octaethylporphyrin. Modern Physics Letters B, 2019, 33, 1950134.	1.0	0
1976	161 Dy Time-Resolved Domain Synchrotron Mössbauer Spectroscopy for Investigating Single-Molecule Magnets Incorporating Dy Ions. Angewandte Chemie, 2019, 131, 3482-3487.	1.6	4
1977	Field-induced slow relaxation of magnetization in the $S = 3/2$ octahedral complexes $trans-[Co\{(OPPh)_2\}(EPPh)_2N\}_2(dm f)_2]$, E = S, Se: effects of Co-Se vs. Co-S coordination. Inorganic Chemistry Frontiers, 2019, 6, 1405-1414.	3.0	9
1978	An eight-coordinate ytterbium complex with a hexagonal bipyramid geometry exhibiting field-induced single-ion magnet behaviour. Dalton Transactions, 2019, 48, 5621-5626.	1.6	25
1979	Synthesis of a Neutral Mononuclear Four-Coordinate Co(II) Complex Having Two Halved Phthalocyanine Ligands That Shows Slow Magnetic Relaxations under Zero Static Magnetic Field. Inorganic Chemistry, 2019, 58, 5211-5220.	1.9	14
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1987	Divalent Thulium Crown Ether Complexes with Field-Induced Slow Magnetic Relaxation. Inorganic Chemistry, 2019, 58, 2872-2880.	1.9	30
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1990	Local Geometry Symmetry and Electrostatic Distribution Dominated Eight-Coordinate $\hat{\text{I}}^2$ -Diketone Dy(III) SIMs. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 1413-1420.	1.0	8
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1992	Synthesis of new Mn_{19} analogues and their structural, electrochemical and catalytic properties. <i>Dalton Transactions</i> , 2019, 48, 4830-4836.	1.6	4
1993	From zero-dimensional to one-dimensional chain N -oxide bridged compounds with enhanced single-molecule magnetic performance. <i>Dalton Transactions</i> , 2019, 48, 4324-4332.	1.6	11
1994	Luminescent Schiff-Base Lanthanide Single-Molecule Magnets: The Association Between Optical and Magnetic Properties. <i>Frontiers in Chemistry</i> , 2019, 7, 63.	1.8	53
1995	Synthetic Hilbert Space Engineering of Molecular Quinoids: Isotopologue Chemistry. <i>Advanced Materials</i> , 2019, 31, e1806687.	11.1	41
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2002	Combined Experimental and Theoretical Investigation of the Origin of Magnetic Anisotropy in Pentagonal Bipyramidal Isothiocyanato Co(II), Ni(II), and Fe(III) Complexes with Quaternary-Ammonium-Functionalized 2,6-Diacetylpyridine Bisacylhydrazone. <i>Journal of Physical Chemistry C</i> , 2019, 123, 31142-31155.	1.5	13
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2005	Role of charge transfer in hybridization-induced spin transition in metal-organic molecules. <i>Physical Review B</i> , 2019, 100, .	1.1	5
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2012	Bulk-Like Magnetic Signature of Individual Fe ₄ H Molecular Magnets on Graphene. ACS Nano, 2019, 13, 780-785.	7.3	23
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2027	Zero-energy-state-oriented tunability of spin polarization in zigzag-edged bowtie-shaped graphene nanoflakes under an electric field. <i>Nanotechnology</i> , 2019, 30, 085201.	1.3	2
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2037	A Design Criteria to Achieve Giant Ising-Type Anisotropy in Co II Encapsulated Metallofullerenes. <i>Chemistry - A European Journal</i> , 2020, 26, 464-477.	1.7	12
2038	Single-Chain Magnet Based on Cobalt(II) Thiocyanate as XXZ Spin Chain. <i>Chemistry - A European Journal</i> , 2020, 26, 2837-2851.	1.7	54
2039	Magneto thermoelectric properties of transition metal.bis(dithiolene) wires. <i>Physica B: Condensed Matter</i> , 2020, 580, 411825.	1.3	1
2040	Spatial-induced antiferromagnetic-like interaction of gadofullerene incarcerated in metal-organic-framework matrix. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2020, 28, 353-360.	1.0	2
2041	Conjugated polymers – Problems and promises. <i>Progress in Polymer Science</i> , 2020, 100, 101179.	11.8	101
2042	Strong intramolecular Dy(III)–Dy(III) magnetic couplings up to 15.00 cm ⁻¹ in phenoxyl-bridged dinuclear 4f complexes. <i>New Journal of Chemistry</i> , 2020, 44, 2083-2090.	1.4	14

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2046	Magnetic Relaxation Studies on Trigonal Bipyramidal Cobalt(II) Complexes. <i>Chemistry - an Asian Journal</i> , 2020, 15, 391-397.	1.7	11
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2048	Insight into the influence of terminal ligands on magnetic exchange coupling in a series of dimeric copper(II) acetate adducts. <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26145.	1.0	1
2049	The effect of the electronic structure and flexibility of the counteranions on magnetization relaxation in [Dy(L) ₂ (H ₂ O) ₅] ³⁺ (L = phosphine oxide) <i>Tj ETQq 3.00 rgBT 40verlock</i>	1.0	1
2050	Ferromagnetically-coupled, triangular, [Bu ₄ N] ₂ [CuI ₃ (¹ / ₄ -Br) ₂ (¹ / ₄ -4-O ₂ N-pz) ₃ Br ₃] complex revisited: The effect of coordinated halides on spin relaxation properties. <i>Polyhedron</i> , 2020, 177, 114258.	1.0	1
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2057	An Organic-Inorganic Hybrid Exhibiting Electrical Conduction and Single-Ion Magnetism. <i>Angewandte Chemie</i> , 2020, 132, 2420-2427.	1.6	5
2058	An Organic-Inorganic Hybrid Exhibiting Electrical Conduction and Single-Ion Magnetism. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2399-2406.	7.2	19
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2060	Two hexanuclear lanthanide Ln ₆ ^{III} clusters featuring remarkable magnetocaloric effect and slow magnetic relaxation behavior. <i>New Journal of Chemistry</i> , 2020, 44, 18025-18030.	1.4	14

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2064	Why lanthanide Er^{III} SIMs cannot possess huge energy barriers: a theoretical investigation. <i>Dalton Transactions</i> , 2020, 49, 14576-14583.	1.6	50
2065	Physical stimulus and chemical modulations of bistable molecular magnetic materials. <i>Chemical Communications</i> , 2020, 56, 13702-13718.	2.2	65
2066	Structurally modulated single-ion magnets of mononuclear β^2 -diketone dysprosium(III) complexes. <i>Dalton Transactions</i> , 2020, 49, 14931-14940.	1.6	16
2067	Octacyanidometallates for multifunctional molecule-based materials. <i>Chemical Society Reviews</i> , 2020, 49, 5945-6001.	18.7	100
2068	Field-induced slow magnetic relaxation in two interpenetrated cobalt(Co_2) metal-organic framework isomers. <i>CrystEngComm</i> , 2020, 22, 5275-5279.	1.3	20
2069	Assembly of chiral $3d-4f$ wheel-like cluster complexes with achiral ligands: single-molecule magnetic behavior and magnetocaloric effect. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3340-3351.	3.0	34
2070	A β -Carbazoyl Dy^{III} Half-Sandwich Complex Showing Single-Molecule-Magnet Behavior. <i>Organometallics</i> , 2020, 39, 2785-2790.	1.1	4
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2073	Low-temperature spin dynamics of ferromagnetic molecular ring $\{\text{Cr}_8\text{Y}_8\}$. <i>Npj Quantum Materials</i> , 2020, 5, .	1.8	8
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2748	The regulation effect of coordination number on the conductance of single-molecule junctions. <i>Journal of Materials Chemistry C</i> , 0, , .	2.7	0
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