

Liviu F Chibotaru

List of Publications by Year in descending order

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200
papers

21,979
citations

11608

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9073

144
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215
docs citations

215
times ranked

8082
citing authors

#	ARTICLE	IF	CITATIONS
1	<scp>Molcas</scp> 8: New capabilities for multiconfigurational quantum chemical calculations across the periodic table. <i>Journal of Computational Chemistry</i> , 2016, 37, 506-541.	1.5	1,317
2	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, 5441-5450.	6.6	904
3	Symmetry-Supported Magnetic Blocking at 20 K in Pentagonal Bipyramidal Dy(III) Single-Ion Magnets. <i>Journal of the American Chemical Society</i> , 2016, 138, 2829-2837.	6.6	728
4	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, 11948-11951.	6.6	670
5	OpenMolcas: From Source Code to Insight. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 5925-5964.	2.3	661
6	Magnetic relaxation pathways in lanthanide single-molecule magnets. <i>Nature Chemistry</i> , 2013, 5, 673-678.	6.6	649
7	The Origin of Nonmagnetic Kramers Doublets in the Ground State of Dysprosium Triangles: Evidence for a Toroidal Magnetic Moment. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4126-4129.	7.2	610
8	A Polynuclear Lanthanide Single-Molecule Magnet with a Record Anisotropic Barrier. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9489-9492.	7.2	557
9	Single-Molecule Magnet Behavior for an Antiferromagnetically Superexchange-Coupled Dinuclear Dysprosium(III) Complex. <i>Journal of the American Chemical Society</i> , 2011, 133, 5319-5328.	6.6	541
10	Switching the anisotropy barrier of a single-ion magnet by symmetry change from quasi-D5h to quasi-Oh. <i>Chemical Science</i> , 2013, 4, 3310.	3.7	469
11	Structure, Magnetism, and Theoretical Study of a Mixed-Valence Co ^{II} ₃ Co ^{III} ₄ Heptanuclear Wheel: Lack of SMM Behavior despite Negative Magnetic Anisotropy. <i>Journal of the American Chemical Society</i> , 2008, 130, 12445-12455.	6.6	442
12	Fine-Tuning the Local Symmetry to Attain Record Blocking Temperature and Magnetic Remanence in a Single-Ion Magnet. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4413-4417.	7.2	370
13	Strategies toward High-Temperature Lanthanide-Based Single-Molecule Magnets. <i>Inorganic Chemistry</i> , 2016, 55, 10043-10056.	1.9	342
14	A {Cr ^{III} ₂ Dy ^{III} ₂ } Single-Molecule Magnet: Enhancing the Blocking Temperature through 3d Magnetic Exchange. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12014-12019.	7.2	338
15	Magnetic anisotropy in the excited states of low symmetry lanthanide complexes. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20086.	1.3	333
16	Ab initio investigation of the non-collinear magnetic structure and the lowest magnetic excitations in dysprosium triangles. <i>New Journal of Chemistry</i> , 2009, 33, 1224.	1.4	332
17	Single-molecule toroics in Ising-type lanthanide molecular clusters. <i>Chemical Society Reviews</i> , 2014, 43, 6894-6905.	18.7	325
18	Symmetry-induced formation of antivortices in mesoscopic superconductors. <i>Nature</i> , 2000, 408, 833-835.	13.7	283

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19	Modern quantum chemistry with [Open]Molcas. <i>Journal of Chemical Physics</i> , 2020, 152, 214117.	1.2	281
20	Coupling Strategies to Enhance Single-Molecule Magnet Properties of Erbium ^{III} -Cyclooctatetraenyl Complexes. <i>Journal of the American Chemical Society</i> , 2014, 136, 8003-8010.	6.6	278
21	Coexistence of Distinct Single-Ion and Exchange-Based Mechanisms for Blocking of Magnetization in a Co ^{II} Dy ^{III} Single-Molecule Magnet. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7550-7554.	7.2	277
22	Influence of Guest Exchange on the Magnetization Dynamics of Divalent Lanthanide Single-Molecule Magnets within a Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9861-9865.	7.2	268
23	Significant Enhancement of Energy Barriers in Dinuclear Dysprosium Single-Molecule Magnets Through Electron-Withdrawing Effects. <i>Journal of the American Chemical Society</i> , 2013, 135, 13242-13245.	6.6	265
24	An Octanuclear [Cr ^{III} Dy ^{III}] ₃ Single-Molecule Magnet. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7583-7587.	7.2	256
25	A High Anisotropy Barrier in a Sulfur-Bridged Organodysprosium Single-Molecule Magnet. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6976-6980.	7.2	254
26	Interplay of Strongly Anisotropic Metal Ions in Magnetic Blocking of Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 6328-6337.	1.9	239
27	Ab Initio Crystal Field for Lanthanides. <i>Chemistry - A European Journal</i> , 2017, 23, 3708-3718.	1.7	239
28	A Heterometallic Fe ^{II} -Dy ^{III} Single-Molecule Magnet with a Record Anisotropy Barrier. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12966-12970.	7.2	235
29	Type-1.5 Superconductivity. <i>Physical Review Letters</i> , 2009, 102, 117001.	2.9	230
30	A Non-Sandwiched Macrocyclic Monolanthanide Single-Molecule Magnet: The Key Role of Axiality. <i>Chemistry - A European Journal</i> , 2011, 17, 4362-4365.	1.7	227
31	A Six-Coordinate Ytterbium Complex Exhibiting Easy-Plane Anisotropy and Field-Induced Single-Ion Magnet Behavior. <i>Inorganic Chemistry</i> , 2012, 51, 8538-8544.	1.9	221
32	A High-Temperature Molecular Ferroelectric Zn/Dy Complex Exhibiting Single-Ion Magnet Behavior and Lanthanide Luminescence. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2236-2240.	7.2	220
33	Coupling Dy ³⁺ Triangles to Maximize the Toroidal Moment. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12767-12771.	7.2	207
34	First Heterotrimetallic {3f ₄ } Single Chain Magnet, Constructed from Anisotropic High-Spin, Heterometallic Nodes and Paramagnetic Spacers. <i>Chemistry - A European Journal</i> , 2009, 15, 11808-11814.	1.7	205
35	Influence of the Ligand Field on Slow Magnetization Relaxation versus Spin Crossover in Mononuclear Cobalt Complexes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11290-11293.	7.2	192
36	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, 1614-1619.	7.2	191

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37	The First {Dy ₄ } Single-Molecule Magnet with a Toroidal Magnetic Moment in the Ground State. <i>Inorganic Chemistry</i> , 2012, 51, 1233-1235.	1.9	191
38	An Organometallic Building Block Approach To Produce a Multidecker 4 <i>f</i> Single-Molecule Magnet. <i>Journal of the American Chemical Society</i> , 2013, 135, 3502-3510.	6.6	189
39	A single-molecule magnet assembly exhibiting a dielectric transition at 470 K. <i>Chemical Science</i> , 2012, 3, 3366.	3.7	175
40	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.	7.2	173
41	Modifying the properties of 4f single-ion magnets by peripheral ligand functionalisation. <i>Chemical Science</i> , 2014, 5, 1650-1660.	3.7	159
42	Net Toroidal Magnetic Moment in the Ground State of a {Dy ₆ }-Triethanolamine Ring. <i>Journal of the American Chemical Society</i> , 2012, 134, 18554-18557.	6.6	157
43	Supramolecular architectures for controlling slow magnetic relaxation in field-induced single-molecule magnets. <i>Chemical Science</i> , 2012, 3, 2158.	3.7	155
44	Heterometallic Tetranuclear [Ln ^{III} ₂ Co ^{III} ₂] Complexes Including Suppression of Quantum Tunneling of Magnetization in the [Dy ^{III} ₂ Co ^{III} ₂] Single Molecule Magnet. <i>Inorganic Chemistry</i> , 2012, 51, 11873-11881.	1.9	154
45	Mechanism of a Strongly Anisotropic Mollâ~CNâ~MnII Spinâ~Spin Coupling in Molecular Magnets Based on the [Mo(CN) ₇] ⁴⁻ Heptacyanometalate:â% A New Strategy for Single-Molecule Magnets with High Blocking Temperatures. <i>Journal of the American Chemical Society</i> , 2003, 125, 9750-9760.	6.6	150
46	Heterometallic CuI/DyIII 1D chiral polymers: chirogenesis and exchange coupling of toroidal moments in trinuclear Dy ₃ single molecule magnets. <i>Chemical Science</i> , 2012, 3, 1169.	3.7	146
47	Electronic Structure and Slow Magnetic Relaxation of Low-Coordinate Cyclic Alkyl(amino) Carbene Stabilized Iron(I) Complexes. <i>Journal of the American Chemical Society</i> , 2014, 136, 11964-11971.	6.6	145
48	An NCN-pincer ligand dysprosium single-ion magnet showing magnetic relaxation via the second excited state. <i>Scientific Reports</i> , 2014, 4, 5471.	1.6	138
49	Vortex Entry and Nucleation of Antivortices in a Mesoscopic Superconducting Triangle. <i>Physical Review Letters</i> , 2001, 86, 1323-1326.	2.9	133
50	Modulation of slow magnetic relaxation by tuning magnetic exchange in {Cr ₂ Dy ₂ } single molecule magnets. <i>Chemical Science</i> , 2014, 5, 3246-3256.	3.7	127
51	Influencing the properties of dysprosium single-molecule magnets with phosphorus donor ligands. <i>Nature Communications</i> , 2015, 6, 7492.	5.8	126
52	A Dinuclear Cobalt Complex Featuring Unprecedented Anodic and Cathodic Redox Switches for Single-Molecule Magnet Activity. <i>Journal of the American Chemical Society</i> , 2013, 135, 14670-14678.	6.6	121
53	Structure, Magnetism and Theory of a Family of Nonanuclear Cu ^{II} ₅ Ln ^{III} ₄ -â~Triethanolamine Clusters Displaying Single-Molecule Magnet Behaviour. <i>Chemistry - A European Journal</i> , 2011, 17, 9209-9218.	1.7	114
54	From a Dy(III) Single Molecule Magnet (SMM) to a Ferromagnetic [Mn(II)Dy(III)Mn(II)] Trinuclear Complex. <i>Inorganic Chemistry</i> , 2012, 51, 9589-9597.	1.9	112

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55	Spectroscopic determination of crystal field splittings in lanthanide double deckers. <i>Chemical Science</i> , 2014, 5, 3287.	3.7	111
56	Symmetry related [DyIII6MnIII12] cores with different magnetic anisotropies. <i>Chemical Science</i> , 2011, 2, 1268.	3.7	108
57	Magneto-structural correlations in arsenic- and selenium-ligated dysprosium single-molecule magnets. <i>Chemical Science</i> , 2016, 7, 2128-2137.	3.7	105
58	Heterospin Systems Constructed from [Cu ₂ Ln] ³⁺ and [Ni(mnt) ₂] ¹⁺ Tectons: First 3d ⁹ 4f Complexes (mnt = Maleonitriledithiolato). <i>Inorganic Chemistry</i> , 2008, 47, 940-950.	1.9	104
59	Er ³⁺ -doped Nanoparticles for Optical Detection of Magnetic Field. <i>Nano Letters</i> , 2009, 9, 721-724.	4.5	96
60	Dynamic Magnetic and Optical Insight into a High Performance Pentagonal Bipyramidal Dy ^{III} Single-Molecule Magnet. <i>Chemistry - A European Journal</i> , 2017, 23, 5708-5715.	1.7	96
61	Pure Trinuclear 4f Single-Molecule Magnets: Synthesis, Structures, Magnetism and Ab Initio Investigation. <i>Chemistry - A European Journal</i> , 2011, 17, 2458-2466.	1.7	93
62	Heterometallic 3d ⁴ Single-Molecule Magnets: Ligand and Metal Ion Influences on the Magnetic Relaxation. <i>Inorganic Chemistry</i> , 2015, 54, 3631-3642.	1.9	92
63	Single-Molecule Magnetism in a Family of {Co ^{III} ₂ Dy ^{III} ₂ } Butterfly Complexes: Effects of Ligand Replacement on the Dynamics of Magnetic Relaxation. <i>Inorganic Chemistry</i> , 2014, 53, 4303-4315.	1.9	88
64	Tuning the Magnetic Interactions and Relaxation Dynamics of Dy ₂ Single-Molecule Magnets. <i>Chemistry - A European Journal</i> , 2015, 21, 14099-14106.	1.7	87
65	Desolvation-Driven 100-Fold Slow-down of Tunneling Relaxation Rate in Co(II)-Dy(III) Single-Molecule Magnets through a Single-Crystal-to-Single-Crystal Process. <i>Scientific Reports</i> , 2015, 5, 16621.	1.6	84
66	Synthesis and Characterization of a Two-Coordinate Manganese Complex and its Reaction with Molecular Hydrogen at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11817-11821.	7.2	78
67	A hydride-ligated dysprosium single-molecule magnet. <i>Chemical Communications</i> , 2013, 49, 901-903.	2.2	75
68	Energy level diagram and kinetics of luminescence of Ag nanoclusters dispersed in a glass host. <i>Optics Express</i> , 2012, 20, 13582.	1.7	74
69	Ytterbium can relax slowly too: a field-induced Yb ₂ single-molecule magnet. <i>Dalton Transactions</i> , 2012, 41, 12349.	1.6	73
70	Multitechnique investigation of Dy ₃ implications for coupled lanthanide clusters. <i>Chemical Science</i> , 2016, 7, 4347-4354.	3.7	70
71	By Design: A Macrocyclic 3d ⁴ Single-Molecule Magnet with Quantifiable Zero-Field Slow Relaxation of Magnetization. <i>Inorganic Chemistry</i> , 2013, 52, 3236-3240.	1.9	69
72	Key Role of Frustration in Suppression of Magnetization Blocking in Single-Molecule Magnets. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3565-3569.	2.1	67

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73	Angular-Resolved Magnetometry Beyond Triclinic Crystals: Out-of-Equilibrium Studies of Cp*ErCOT Single-Molecule Magnet. Chemistry - A European Journal, 2013, 19, 13726-13731.	1.7	67
74	Relaxations in heterolanthanide dinuclear single-molecule magnets. Chemical Communications, 2013, 49, 158-160.	2.2	66
75	A Rare $\frac{1}{4}$ -Centred Dy ₄ Tetrahedron with Coordination-Induced Local Chirality and Single-Molecule Magnet Behaviour. European Journal of Inorganic Chemistry, 2011, 2011, 1535-1539.	1.0	65
76	Scanning SQUID microscopy of vortex clusters in multiband superconductors. Physical Review B, 2010, 81, .	1.1	64
77	Toroidal magnetic states in molecular wheels: Interplay between isotropic exchange interactions and local magnetic anisotropy. Physical Review B, 2008, 77, .	1.1	63
78	A {Cr ^{III} } ₂ Dy ^{III} } ₂ Single-Molecule Magnet: Enhancing the Blocking Temperature through 3d Magnetic Exchange. Angewandte Chemie, 2013, 125, 12236-12241.	1.6	63
79	Observation of unusual slow-relaxation of the magnetisation in a Gd-EDTA chelate. Dalton Transactions, 2015, 44, 20321-20325.	1.6	62
80	A dinuclear cobalt(ii) complex of calix[8]arenes exhibiting strong magnetic anisotropy. Dalton Transactions, 2007, , 4582.	1.6	58
81	Theoretical Understanding of Anisotropy in Molecular Nanomagnets. Structure and Bonding, 2014, , 185-229.	1.0	58
82	A Catalyst with Two-Coordinate Nickel: Theoretical and Catalytic Studies. European Journal of Inorganic Chemistry, 2014, 2014, 818-823.	1.0	57
83	Coupling Influences SMM Properties for Pure 4% Systems. Chemistry - A European Journal, 2018, 24, 6079-6086.	1.7	57
84	Synthesis and Magnetic Properties of a New Family of Macrocyclic MII ₃ LnIII Complexes: Insights into the Effect of Subtle Chemical Modification on Single-Molecule Magnet Behavior. Inorganic Chemistry, 2012, 51, 10603-10612.	1.9	56
85	Synthesis, Structure, and Magnetic Properties of Dy ₂ Co ₂ L ₁₀ (bipy) ₂ and Ln ₂ Ni ₂ L ₁₀ (bipy) ₂ , Ln = La, Gd, Tb, Dy, and Ho: Slow Magnetic Relaxation in	1.9	56
86	Dy ₂ Co ₂ L ₁₀ (bipy) ₂ and Dy ₂ Ni ₂ L ₁₀ (bipy) ₂ . Inorganic Chemistry, 2014, 53, Stabilization of a Cobalt-Cobalt Bond by Two Cyclic Alkyl Amino Carbenes. Journal of the American Chemical Society, 2014, 136, 1770-1773.	6.6	55
87	Exchange interaction between J multiplets. Physical Review B, 2015, 91, .	1.1	55
88	Giant exchange interaction in mixed lanthanides. Scientific Reports, 2016, 6, 24046.	1.6	54
89	Molecular Spintronics in Mixed-Valence Magnetic Dimers: The Double-Exchange Blockade Mechanism. Journal of the American Chemical Society, 2010, 132, 8106-8114.	6.6	51
90	Embedding Fragment ab Initio Model Potentials in CASSCF/CASPT2 Calculations of Doped Solids: Implementation and Applications. Journal of Chemical Theory and Computation, 2008, 4, 586-594.	2.3	50

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91	Determination of the electronic structure of a dinuclear dysprosium single molecule magnet without symmetry idealization. <i>Chemical Science</i> , 2019, 10, 2101-2110.	3.7	48
92	Thermodynamically stable noncomposite vortices in mesoscopic two-gap superconductors. <i>Europhysics Letters</i> , 2007, 78, 47001.	0.7	47
93	Transitions of two magnetic interaction states in dinuclear Dy(ⁱⁱⁱ) complexes via subtle structural variations. <i>Dalton Transactions</i> , 2017, 46, 638-642.	1.6	47
94	Molecular spintronics using noncollinear magnetic molecules. <i>Physical Review B</i> , 2010, 81, .	1.1	46
95	Holmium(ⁱⁱⁱ) molecular nanomagnets for optical thermometry exploring the luminescence re-absorption effect. <i>Chemical Science</i> , 2021, 12, 730-741.	3.7	46
96	Chemical tuning of the magnetic relaxation in dysprosium(ⁱⁱⁱ) mononuclear complexes. <i>Dalton Transactions</i> , 2014, 43, 12146-12149.	1.6	45
97	An organolanthanide(ⁱⁱⁱ) single-molecule magnet with an axial crystal-field: influence of the Raman process over the slow relaxation. <i>Chemical Communications</i> , 2017, 53, 4706-4709.	2.2	43
98	Dysprosium-based experimental representatives of an Ising-Heisenberg chain and a decorated Ising ring. <i>Physical Review B</i> , 2010, 82, .	1.1	42
99	Field-Induced Multiple Relaxation Mechanism of Co ^{III} ₂ Dy ^{III} Compound with the Dysprosium Ion in a Low-Symmetrical Environment. <i>Inorganic Chemistry</i> , 2014, 53, 12658-12663.	1.9	42
100	Experiment and theoretical modeling of the luminescence of silver nanoclusters dispersed in oxyfluoride glass. <i>Journal of Chemical Physics</i> , 2012, 136, 174108.	1.2	40
101	Synthesis, Crystal Structures, Magnetic Properties, and Theoretical Investigation of a New Series of Ni ^{II} Ln ^{III} W ^V Heterotrimetallics: Understanding the SMM Behavior of Mixed Polynuclear Complexes. <i>Inorganic Chemistry</i> , 2016, 55, 12158-12171.	1.9	39
102	Magnetic Anisotropy of [Mo(CN) ₇] ⁴⁻ Anions and Fragments of Cyano-Bridged Magnetic Networks. <i>Journal of Physical Chemistry A</i> , 2005, 109, 7251-7257.	1.1	38
103	Vortex matter in mesoscopic two-gap superconductor square. <i>Physical Review B</i> , 2011, 84, .	1.1	38
104	Origin of Ferromagnetism in Cyano-Bridged Compounds Containing d ¹ Octacyanometallates Financial support by the Belgian National Science Foundation and Flemish Government under the Concerted Action Scheme, the ESF programme on molecular magnets, the Russian Foundation for Basic Research (Grant No. 01-02-32210), and the INTAS Grant 00-00565 are gratefully acknowledged. The authors thank Professor Silvio Decurtins and the members of his group for stimulating discussions and for sending us the structural data o. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 4429.	7.2	37
105	Hysteresis in the ground and excited spin state up to 10 T of a [Mn ^{II} 6Mn ^{III}] ³⁺ triple-salen single-molecule magnet. <i>Chemical Science</i> , 2012, 3, 2868.	3.7	37
106	An unusual mechanism of building up of a high magnetization blocking barrier in an octahedral alkoxide Dy ³⁺ -based single-molecule magnet. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1166-1174.	3.0	37
107	Vibronic coupling in $\langle mml:mrow \langle mml:msubsup \langle mml:mtext C \langle mml:mtext \langle mml:mrow \langle mml:mn 60 \langle mml:mrow \langle mml:mn 36 \langle mml:mn 1 \langle mml:mn 0 \rangle \rangle \rangle \rangle \rangle \rangle \rangle \rangle$ revisited: Derivations from photoelectron spectra and DFT calculations. <i>Physical Review B</i> , 2010, 82, .	1.1	36
108	Field-induced oscillation of magnetization blocking barrier in a holmium metallacrown single-molecule magnet. <i>CheM</i> , 2021, 7, 982-992.	5.8	36

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109	Exchange interactions in $Ti_2Cl_9^{3-}$: a critical analysis. <i>Inorganica Chimica Acta</i> , 1996, 251, 15-27.	1.2	34
110	A study of the electronic properties of Au nanowires and Au nanoislands on Au(111) surfaces. <i>Nanotechnology</i> , 2009, 20, 395401.	1.3	33
111	A Spectroscopic Investigation of Magnetic Exchange Between Highly Anisotropic Spin Centers. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4007-4011.	7.2	33
112	Multiple relaxation times in single-molecule magnets. <i>Physical Review B</i> , 2016, 94, .	1.1	33
113	Nematic superconducting state in iron pnictide superconductors. <i>Nature Communications</i> , 2017, 8, 1880.	5.8	33
114	Spin-lattice relaxation of magnetic centers in molecular crystals at low temperature. <i>Physical Review B</i> , 2018, 97, .	1.1	32
115	Hyperfine-Interaction-Driven Suppression of Quantum Tunneling at Zero Field in a Holmium(III) Single-Ion Magnet. <i>Angewandte Chemie</i> , 2017, 129, 5078-5082.	1.6	31
116	An Inconspicuous Six-Coordinate Neutral Dy^{III} Single-Ion Magnet with Remarkable Magnetic Anisotropy and Stability. <i>Inorganic Chemistry</i> , 2020, 59, 7158-7166.	1.9	31
117	Ein heterometallischer Fe^{II} - Dy^{III} -Einzelmolekülmagnet mit Rekord-Anisotropiebarriere. <i>Angewandte Chemie</i> , 2014, 126, 13180-13184.	1.6	30
118	The first 4d/4f single-molecule magnet containing a $\{Ru^{III}_2Dy^{III}_2\}$ core. <i>Chemical Communications</i> , 2015, 51, 2044-2047.	2.2	30
119	Magnetic frustration in a hexaazatrinaphthylene-bridged trimetallic dysprosium single-molecule magnet. <i>Dalton Transactions</i> , 2016, 45, 16556-16560.	1.6	30
120	Magnetic Anisotropy in Divalent Lanthanide Compounds. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12720-12724.	7.2	29
121	Multiquanta Vortex Entry and Vortex-Antivortex Pattern Expansion in a Superconducting Microsquare with a Magnetic Dot. <i>Physical Review Letters</i> , 2005, 95, 237003.	2.9	28
122	Determination of magnetic anisotropy in a multinuclear Tb^{III} -based single-molecule magnet. <i>Chemical Communications</i> , 2015, 51, 10373-10376.	2.2	28
123	Optical Activity and Dehydration-Driven Switching of Magnetic Properties in Enantiopure Cyanido-Bridged $Co^{III}_3W^{IV}_2$ Trigonal Bipyramids. <i>Inorganic Chemistry</i> , 2015, 54, 5784-5794.	1.9	27
124	Dysprosium Single-Molecule Magnets with Bulky Schiff Base Ligands: Modification of the Slow Relaxation of the Magnetization by Substituent Change. <i>Chemistry - A European Journal</i> , 2019, 25, 474-478.	1.7	27
125	Square-Planar Ruthenium(II) Complexes: Control of Spin State by Pincer Ligand Functionalization. <i>Chemistry - A European Journal</i> , 2015, 21, 579-589.	1.7	26
126	An Ab Initio Study of the Ligand Field and Charge-Transfer Transitions of $Cr(CN)_6^{3-}$ and $Mo(CN)_6^{3-}$. <i>Journal of the American Chemical Society</i> , 2003, 125, 3694-3695.	6.6	25

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127	Ein achtkerniger $[Cr^{III}_4Dy^{III}_4]^{4+}$ Einzelmolekülmagnet. <i>Angewandte Chemie</i> , 2010, 122, 7746-7750.	1.6	25
128	Synthesis, structure, magnetism and theoretical study of a series of complexes with a decanuclear core $[Ln^{(iii)}_2Cu^{(ii)}_8]$ ($Ln = Y, Gd, Tb, Dy$). <i>New Journal of Chemistry</i> , 2011, 35, 1270.	1.4	25
129	Intermolecular mechanism for multiple maxima in molecular dynamic susceptibility. <i>Physical Review B</i> , 2018, 98, .	1.1	25
130	Magnetic Properties of a Terbium [1]Ferrocenophane Complex: Analogies between Lanthanide Ferrocenophane and Lanthanide Bisphthalocyanine Complexes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8164-8169.	7.2	25
131	Confinement of surface state electrons in self-organized Co islands on Au(111). <i>New Journal of Physics</i> , 2008, 10, 043016.	1.2	24
132	Quantum Chemistry Modeling of Luminescence Kinetics of Ag Nanoclusters Dispersed in Glass Host. <i>Journal of Physical Chemistry C</i> , 2013, 117, 7796-7800.	1.5	24
133	Magnetization Dynamics and Coherent Spin Manipulation of a Propeller Gd(III) Complex with the Smallest Helicene Ligand. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1508-1515.	2.1	24
134	Synchronous Temperature and Magnetic Field Dual Sensing by Luminescence in a Dysprosium Single-Molecule Magnet. <i>Advanced Optical Materials</i> , 2021, 9, 2101495.	3.6	24
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