

Liviu F Chibotaru

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206
papers

18,494
citations

68
h-index

133
g-index

215
ext. papers

20,351
ext. citations

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avg. IF

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L-index

#	Paper	IF	Citations
206	Molcas 8: New capabilities for multiconfigurational quantum chemical calculations across the periodic table. <i>Journal of Computational Chemistry</i> , 2016 , 37, 506-41	3.5	1047
205	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
204	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
203	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, 2829-37	16.4	601
202	Magnetic relaxation pathways in lanthanide single-molecule magnets. <i>Nature Chemistry</i> , 2013 , 5, 673-8	17.6	583
201	A polynuclear lanthanide single-molecule magnet with a record anisotropic barrier. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 9489-92	16.4	535
200	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, 4126-9	16.4	514
199	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
198	Switching the anisotropy barrier of a single-ion magnet by symmetry change from quasi-D _{5h} to quasi-O _h . <i>Chemical Science</i> , 2013 , 4, 3310	9.4	402
197	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, 12445-55	16.4	363
196	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, 4413-7	16.4	327
195	OpenMolcas: From Source Code to Insight. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 5925-5964	16.4	310
194	A {Cr(III)Dy(III)} single-molecule magnet: enhancing the blocking temperature through 3d magnetic exchange. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 12014-9	16.4	289
193	Magnetic anisotropy in the excited states of low symmetry lanthanide complexes. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 20086-90	3.6	285
192	Single-molecule toroics in Ising-type lanthanide molecular clusters. <i>Chemical Society Reviews</i> , 2014 , 43, 6894-905	58.5	278
191	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	3.6	269
190	Symmetry-induced formation of antivortices in mesoscopic superconductors. <i>Nature</i> , 2000 , 408, 833-5	50.4	261

189	Coexistence of distinct single-ion and exchange-based mechanisms for blocking of magnetization in a Co(II)2Dy(III)2 single-molecule magnet. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7550-4	16.4	248
188	Strategies toward High-Temperature Lanthanide-Based Single-Molecule Magnets. <i>Inorganic Chemistry</i> , 2016 , 55, 10043-10056	5.1	248
187	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, 13242-5	16.4	239
186	Coupling strategies to enhance single-molecule magnet properties of erbium-cyclooctatetraenyl complexes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8003-10	16.4	236
185	A high anisotropy barrier in a sulfur-bridged organodysprosium single-molecule magnet. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 6976-80	16.4	235
184	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
183	Influence of Guest Exchange on the Magnetization Dynamics of Dilanthanide Single-Molecule-Magnet Nodes within a Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9861-5	16.4	230
182	A non-sandwiched macrocyclic monolanthanide single-molecule magnet: the key role of axiality. <i>Chemistry - A European Journal</i> , 2011 , 17, 4362-5	4.8	215
181	Type-1.5 superconductivity. <i>Physical Review Letters</i> , 2009 , 102, 117001	7.4	211
180	A heterometallic Fe(II)-Dy(III) single-molecule magnet with a record anisotropy barrier. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12966-70	16.4	207
179	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
178	Interplay of strongly anisotropic metal ions in magnetic blocking of complexes. <i>Inorganic Chemistry</i> , 2013 , 52, 6328-37	5.1	203
177	First heterotrimetallic {3 d-4 d-4 f} single chain magnet, constructed from anisotropic high-spin heterometallic nodes and paramagnetic spacers. <i>Chemistry - A European Journal</i> , 2009 , 15, 11808-14	4.8	194
176	Coupling Dy3 triangles to maximize the toroidal moment. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12767-71	16.4	191
175	Supramolecular "double-propeller" dimers of hexanuclear Cu(II)/Ln(III) complexes: a {Cu3Dy3}2 single-molecule magnet. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1614-9	16.4	186
174	An organometallic building block approach to produce a multidecker 4f single-molecule magnet. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3502-10	16.4	177
173	The first {Dy4} single-molecule magnet with a toroidal magnetic moment in the ground state. <i>Inorganic Chemistry</i> , 2012 , 51, 1233-5	5.1	177
172	A high-temperature molecular ferroelectric Zn/Dy complex exhibiting single-ion-magnet behavior and lanthanide luminescence. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 2236-40	16.4	174

171	Influence of the ligand field on slow magnetization relaxation versus spin crossover in mononuclear cobalt complexes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11290-3	16.4	171
170	Ab Initio Crystal Field for Lanthanides. <i>Chemistry - A European Journal</i> , 2017 , 23, 3708-3718	4.8	163
169	A single-molecule magnet assembly exhibiting a dielectric transition at 470 K. <i>Chemical Science</i> , 2012 , 3, 3366	9.4	150
168	Modifying the properties of 4f single-ion magnets by peripheral ligand functionalisation. <i>Chemical Science</i> , 2014 , 5, 1650-1660	9.4	144
167	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, 11873-81	5.1	143
166	Supramolecular architectures for controlling slow magnetic relaxation in field-induced single-molecule magnets. <i>Chemical Science</i> , 2012 , 3, 2158	9.4	140
165	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
164	Net toroidal magnetic moment in the ground state of a {Dy ₆ }-triethanolamine ring. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18554-7	16.4	138
163	Mechanism of a strongly anisotropic Mo(III)-CN-Mn(II) spin-spin coupling in molecular magnets based on the [Mo(CN) ₇](4-) heptacyanometalate: a new strategy for single-molecule magnets with high blocking temperatures. <i>Journal of the American Chemical Society</i> , 2003 , 125, 9750-60	16.4	137
162	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
161	An NCN-pincer ligand dysprosium single-ion magnet showing magnetic relaxation via the second excited state. <i>Scientific Reports</i> , 2014 , 4, 5471	4.9	129
160	Vortex entry and nucleation of antivortices in a mesoscopic superconducting triangle. <i>Physical Review Letters</i> , 2001 , 86, 1323-6	7.4	124
159	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, 11964-71	16.4	122
158	Influencing the properties of dysprosium single-molecule magnets with phosphorus donor ligands. <i>Nature Communications</i> , 2015 , 6, 7492	17.4	112
157	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	9.4	111
156	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, 14670-8	16.4	108
155	Modern quantum chemistry with [Open]Molcas. <i>Journal of Chemical Physics</i> , 2020 , 152, 214117	3.9	106
154	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, 9589-97	5.1	105

153	Structure, magnetism and theory of a family of nonanuclear Cu(II)5Ln(III)4-triethanolamine clusters displaying single-molecule magnet behaviour. <i>Chemistry - A European Journal</i> , 2011 , 17, 9209-18	4.8	105
152	Symmetry related [DyIII6MnIII12] cores with different magnetic anisotropies. <i>Chemical Science</i> , 2011 , 2, 1268	9.4	103
151	Heterospin systems constructed from [Cu2Ln]3+ and [Ni(mnt)2]1-,2- Tectons: First 3p-3d-4f complexes (mnt = maleonitriledithiolato). <i>Inorganic Chemistry</i> , 2008 , 47, 940-50	5.1	103
150	Spectroscopic determination of crystal field splittings in lanthanide double deckers. <i>Chemical Science</i> , 2014 , 5, 3287	9.4	101
149	Magneto-structural correlations in arsenic- and selenium-ligated dysprosium single-molecule magnets. <i>Chemical Science</i> , 2016 , 7, 2128-2137	9.4	93
148	Pure trinuclear 4f single-molecule magnets: synthesis, structures, magnetism and ab initio investigation. <i>Chemistry - A European Journal</i> , 2011 , 17, 2458-66	4.8	91
147	Er(3+)-doped nanoparticles for optical detection of magnetic field. <i>Nano Letters</i> , 2009 , 9, 721-4	11.5	88
146	Heterometallic 3d-4f single-molecule magnets: ligand and metal ion influences on the magnetic relaxation. <i>Inorganic Chemistry</i> , 2015 , 54, 3631-42	5.1	81
145	Dynamic Magnetic and Optical Insight into a High Performance Pentagonal Bipyramidal Dy Single-Ion Magnet. <i>Chemistry - A European Journal</i> , 2017 , 23, 5708-5715	4.8	79
144	Tuning the Magnetic Interactions and Relaxation Dynamics of Dy2 Single-Molecule Magnets. <i>Chemistry - A European Journal</i> , 2015 , 21, 14099-106	4.8	79
143	Single-molecule magnetism in a family of {Co(III)2Dy(III)2} butterfly complexes: effects of ligand replacement on the dynamics of magnetic relaxation. <i>Inorganic Chemistry</i> , 2014 , 53, 4303-15	5.1	78
142	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	4.9	78
141	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, 11817-21	16.4	73
140	A hydride-ligated dysprosium single-molecule magnet. <i>Chemical Communications</i> , 2013 , 49, 901-3	5.8	70
139	Ytterbium can relax slowly too: a field-induced Yb2 single-molecule magnet. <i>Dalton Transactions</i> , 2012 , 41, 12349-52	4.3	68
138	Fine-tuning the Local Symmetry to Attain Record Blocking Temperature and Magnetic Remanence in a Single-Ion Magnet. <i>Angewandte Chemie</i> , 2014 , 126, 4502-4506	3.6	67
137	By design: a macrocyclic 3d-4f single-molecule magnet with quantifiable zero-field slow relaxation of magnetization. <i>Inorganic Chemistry</i> , 2013 , 52, 3236-40	5.1	66
136	Angular-resolved magnetometry beyond triclinic crystals: out-of-equilibrium studies of Cp*ErCOT single-molecule magnet. <i>Chemistry - A European Journal</i> , 2013 , 19, 13726-31	4.8	62

135	Energy level diagram and kinetics of luminescence of Ag nanoclusters dispersed in a glass host. <i>Optics Express</i> , 2012 , 20, 13582-91	3.3	62
134	A {CrIII2DyIII2} Single-Molecule Magnet: Enhancing the Blocking Temperature through 3d Magnetic Exchange. <i>Angewandte Chemie</i> , 2013 , 125, 12236-12241	3.6	61
133	A Rare μ -O Centred Dy ₄ Tetrahedron with Coordination-Induced Local Chirality and Single-Molecule Magnet Behaviour. <i>European Journal of Inorganic Chemistry</i> , 2011 , 2011, 1535-1539	2.3	61
132	Multitechnique investigation of Dy - implications for coupled lanthanide clusters. <i>Chemical Science</i> , 2016 , 7, 4347-4354	9.4	60
131	Relaxations in heterolanthanide dinuclear single-molecule magnets. <i>Chemical Communications</i> , 2013 , 49, 158-60	5.8	59
130	Scanning SQUID microscopy of vortex clusters in multiband superconductors. <i>Physical Review B</i> , 2010 , 81,	3.3	57
129	Toroidal magnetic states in molecular wheels: Interplay between isotropic exchange interactions and local magnetic anisotropy. <i>Physical Review B</i> , 2008 , 77,	3.3	57
128	Key Role of Frustration in Suppression of Magnetization Blocking in Single-Molecule Magnets. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3565-3569	6.4	55
127	Coexistence of Distinct Single-Ion and Exchange-Based Mechanisms for Blocking of Magnetization in a CrII2DyIII2 Single-Molecule Magnet. <i>Angewandte Chemie</i> , 2012 , 124, 7668-7672	3.6	55
126	Theoretical Understanding of Anisotropy in Molecular Nanomagnets. <i>Structure and Bonding</i> , 2014 , 185-229	4.9	53
125	Synthesis, structure, and magnetic properties of DyCoII(bipy) and LnNiII(bipy) [Ln = La, Gd, Tb, Dy, and Ho: slow magnetic relaxation in DyCoII(bipy) and DyNiII(bipy)] <i>Inorganic Chemistry</i> , 2014 , 53, 9785-99	5.1	51
124	Observation of unusual slow-relaxation of the magnetisation in a Gd-EDTA chelate. <i>Dalton Transactions</i> , 2015 , 44, 20321-5	4.3	50
123	Stabilization of a cobalt-cobalt bond by two cyclic alkyl amino carbenes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1770-3	16.4	50
122	A dinuclear cobalt(II) complex of calix[8]arenes exhibiting strong magnetic anisotropy. <i>Dalton Transactions</i> , 2007 , 4582-8	4.3	50
121	Synthesis and magnetic properties of a new family of macrocyclic M(II)3Ln(III) complexes: insights into the effect of subtle chemical modification on single-molecule magnet behavior. <i>Inorganic Chemistry</i> , 2012 , 51, 10603-12	5.1	49
120	A Catalyst with Two-Coordinate Nickel: Theoretical and Catalytic Studies. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 818-823	2.3	47
119	Coupling Influences SMM Properties for Pure 4 f Systems. <i>Chemistry - A European Journal</i> , 2018 , 24, 6079-6086	4.6	44
118	Chemical tuning of the magnetic relaxation in dysprosium(III) mononuclear complexes. <i>Dalton Transactions</i> , 2014 , 43, 12146-9	4.3	44

117	Molecular spintronics using noncollinear magnetic molecules. <i>Physical Review B</i> , 2010 , 81,	3.3	44
116	Transitions of two magnetic interaction states in dinuclear Dy(III) complexes via subtle structural variations. <i>Dalton Transactions</i> , 2017 , 46, 638-642	4.3	43
115	Exchange interaction between J multiplets. <i>Physical Review B</i> , 2015 , 91,	3.3	43
114	Molecular spintronics in mixed-valence magnetic dimers: the double-exchange blockade mechanism. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8106-14	16.4	43
113	Embedding Fragment ab Initio Model Potentials in CASSCF/CASPT2 Calculations of Doped Solids: Implementation and Applications. <i>Journal of Chemical Theory and Computation</i> , 2008 , 4, 586-94	6.4	41
112	Thermodynamically stable noncomposite vortices in mesoscopic two-gap superconductors. <i>Europhysics Letters</i> , 2007 , 78, 47001	1.6	41
111	A High Anisotropy Barrier in a Sulfur-Bridged Organodysprosium Single-Molecule Magnet. <i>Angewandte Chemie</i> , 2012 , 124, 7082-7086	3.6	40
110	Field-induced multiple relaxation mechanism of Co(III)2Dy(III) compound with the dysprosium ion in a low-symmetrical environment. <i>Inorganic Chemistry</i> , 2014 , 53, 12658-63	5.1	39
109	Giant exchange interaction in mixed lanthanides. <i>Scientific Reports</i> , 2016 , 6, 24046	4.9	38
108	A High-Temperature Molecular Ferroelectric Zn/Dy Complex Exhibiting Single-Ion-Magnet Behavior and Lanthanide Luminescence. <i>Angewandte Chemie</i> , 2015 , 127, 2264-2268	3.6	38
107	Dysprosium-based experimental representatives of an Ising-Heisenberg chain and a decorated Ising ring. <i>Physical Review B</i> , 2010 , 82,	3.3	38
106	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. 04-02-00010), and the INTAS Grant 00-80545 are gratefully	16.4	37
105	Determination of the electronic structure of a dinuclear dysprosium single molecule magnet without symmetry idealization. <i>Chemical Science</i> , 2019 , 10, 2101-2110 <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 4429-4433	9.4	35
104	Synthesis, Crystal Structures, Magnetic Properties, and Theoretical Investigation of a New Series of Ni-Ln-W Heterotrimetallics: Understanding the SMM Behavior of Mixed Polynuclear Complexes. <i>Inorganic Chemistry</i> , 2016 , 55, 12158-12171	5.1	35
103	Hysteresis in the ground and excited spin state up to 10 T of a [MnIII6MnIII]3+ triplesalen single-molecule magnet. <i>Chemical Science</i> , 2012 , 3, 2868	9.4	35
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, 7251-7	2.8	35
101	Experiment and theoretical modeling of the luminescence of silver nanoclusters dispersed in oxyfluoride glass. <i>Journal of Chemical Physics</i> , 2012 , 136, 174108	3.9	34
100	Vibronic coupling in C60 ⁻ anion revisited: Derivations from photoelectron spectra and DFT calculations. <i>Physical Review B</i> , 2010 , 82,	3.3	34

- 99 An organolanthanide(III) single-molecule magnet with an axial crystal-field: influence of the Raman process over the slow relaxation. *Chemical Communications*, **2017**, 53, 4706-4709 5.8 33
- 98 Coupling Dy³⁺ Triangles to Maximize the Toroidal Moment. *Angewandte Chemie*, **2012**, 124, 12939-12943.6 3.6 33
- 97 Vortex matter in mesoscopic two-gap superconductor square. *Physical Review B*, **2011**, 84, 3.3 33
- 96 A study of the electronic properties of Au nanowires and Au nanoislands on Au(111) surfaces. *Nanotechnology*, **2009**, 20, 395401 3.4 32
- 95 A spectroscopic investigation of magnetic exchange between highly anisotropic spin centers. *Angewandte Chemie - International Edition*, **2011**, 50, 4007-11 16.4 31
- 94 Exchange interactions in Ti₂Cl₉ a critical analysis. *Inorganica Chimica Acta*, **1996**, 251, 15-27 2.7 31
- 93 Ein heterometallischer FeII-DyIII-Einzelmolekülmagnet mit Rekord-Anisotropiebarriere. *Angewandte Chemie*, **2014**, 126, 13180-13184 3.6 30
- 92 Multiple relaxation times in single-molecule magnets. *Physical Review B*, **2016**, 94, 3.3 29
- 91 Hyperfine-Interaction-Driven Suppression of Quantum Tunneling at Zero Field in a Holmium(III) Single-Ion Magnet. *Angewandte Chemie*, **2017**, 129, 5078-5082 3.6 28
- 90 Multiquanta vortex entry and vortex-antivortex pattern expansion in a superconducting microsquare with a magnetic dot. *Physical Review Letters*, **2005**, 95, 237003 7.4 28
- 89 Determination of magnetic anisotropy in a multinuclear Tb(III)-based single-molecule magnet. *Chemical Communications*, **2015**, 51, 10373-6 5.8 27
- 88 Synthesis and Characterization of a Two-Coordinate Manganese Complex and its Reaction with Molecular Hydrogen at Room Temperature. *Angewandte Chemie*, **2013**, 125, 12033-12037 3.6 26
- 87 Optical Activity and Dehydration-Driven Switching of Magnetic Properties in Enantiopure Cyanido-Bridged Co(II)3W(V)2 Trigonal Bipyramids. *Inorganic Chemistry*, **2015**, 54, 5784-94 5.1 25
- 86 Spin-lattice relaxation of magnetic centers in molecular crystals at low temperature. *Physical Review B*, **2018**, 97, 3.3 24
- 85 Holmium(III) molecular nanomagnets for optical thermometry exploring the luminescence re-absorption effect. *Chemical Science*, **2020**, 12, 730-741 9.4 24
- 84 The first 4d/4f single-molecule magnet containing a {Ru(III)2Dy(III)2} core. *Chemical Communications*, **2015**, 51, 2044-7 5.8 23
- 83 Square-planar ruthenium(II) complexes: control of spin state by pincer ligand functionalization. *Chemistry - A European Journal*, **2015**, 21, 579-89 4.8 23
- 82 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). *New Journal of Chemistry*, **2011**, 35, 1270 3.6 23

81	Ein achtkerniger [CrIII4DyIII4]-3d-4f-Einzelmolekülmagnet. <i>Angewandte Chemie</i> , 2010 , 122, 7746-7750	3.6	23
80	Confinement of surface state electrons in self-organized Co islands on Au(111). <i>New Journal of Physics</i> , 2008 , 10, 043016	2.9	23
79	Magnetic frustration in a hexaazatrinaphthylene-bridged trimetallic dysprosium single-molecule magnet. <i>Dalton Transactions</i> , 2016 , 45, 16556-16560	4.3	23
78	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, 3694-5	16.4	22
77	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	4.8	21
76	Direct observation of the depairing current density in single-crystalline Ba0.5K0.5Fe2As2 microbridge with nanoscale thickness. <i>Applied Physics Letters</i> , 2013 , 103, 062603	3.4	20
75	Intermolecular mechanism for multiple maxima in molecular dynamic susceptibility. <i>Physical Review B</i> , 2018 , 98,	3.3	20
74	Dynamical Jahn-Teller effect and antiferromagnetism in Cs3C60. <i>Physical Review Letters</i> , 2013 , 111, 056401	4.0	19
73	Influence of Guest Exchange on the Magnetization Dynamics of Dilanthanide Single-Molecule-Magnet Nodes within a Metal-Organic Framework. <i>Angewandte Chemie</i> , 2015 , 127, 9999-10003	3.6	19
72	Quantum Chemistry Modeling of Luminescence Kinetics of Ag Nanoclusters Dispersed in Glass Host. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 7796-7800	3.8	19
71	An Inconspicuous Six-Coordinate Neutral Dy Single-Ion Magnet with Remarkable Magnetic Anisotropy and Stability. <i>Inorganic Chemistry</i> , 2020 , 59, 7158-7166	5.1	18
70	Influence of the Ligand Field on Slow Magnetization Relaxation versus Spin Crossover in Mononuclear Cobalt Complexes. <i>Angewandte Chemie</i> , 2013 , 125, 11500-11503	3.6	18
69	Effect of the metal environment on the ferromagnetic interaction in the Co-NC-W pairs of octacyanotungstate(V)-Cobalt(II) three-dimensional networks. <i>Inorganic Chemistry</i> , 2007 , 46, 2682-90	5.1	18
68	Complete Bond Force Fields for Trivalent and Deltahedral Cages: Group Theory and Applications to Cubane, Closo-dodecaborane, and Buckminsterfullerene. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 8284-8295	2.8	18
67	Nematic superconducting state in iron pnictide superconductors. <i>Nature Communications</i> , 2017 , 8, 1880	17.4	17
66	Computational Modelling of the Magnetic Properties of Lanthanide Compounds		17
65	Study of the influence of magnetic dilution over relaxation processes in a Zn/Dy single-ion magnet by correlation between luminescence and magnetism. <i>RSC Advances</i> , 2016 , 6, 108810-108818	3.7	16
64	Thermal expansion and magnetic properties of benzoquinone-bridged dinuclear rare-earth complexes. <i>Dalton Transactions</i> , 2017 , 46, 13582-13589	4.3	16

63	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	6.8	16
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