

Liviu F Chibotaru

List of Publications by Year in descending order

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papers

21,979
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11651

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all docs

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.	3.3	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.	13.7	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.	13.7	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.	13.7	670
5	OpenMolcas: From Source Code to Insight. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 5925-5964.	5.3	661
6	Magnetic relaxation pathways in lanthanide single-molecule magnets. <i>Nature Chemistry</i> , 2013, 5, 673-678.	13.6	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.	13.8	610
8	A Polynuclear Lanthanide Single-Molecule Magnet with a Record Anisotropic Barrier. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9489-9492.	13.8	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.	13.7	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.	7.4	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.	13.7	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.	13.8	370
13	Strategies toward High-Temperature Lanthanide-Based Single-Molecule Magnets. <i>Inorganic Chemistry</i> , 2016, 55, 10043-10056.	4.0	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.	13.8	338
15	Magnetic anisotropy in the excited states of low symmetry lanthanide complexes. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20086.	2.8	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.	2.8	332
17	Single-molecule toroics in Ising-type lanthanide molecular clusters. <i>Chemical Society Reviews</i> , 2014, 43, 6894-6905.	38.1	325
18	Symmetry-induced formation of antivortices in mesoscopic superconductors. <i>Nature</i> , 2000, 408, 833-835.	27.8	283

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19	Modern quantum chemistry with [Open]Molcas. <i>Journal of Chemical Physics</i> , 2020, 152, 214117.	3.0	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.	13.7	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.	13.8	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.	13.8	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.	13.7	265
24	An Octanuclear [Cr ^{III} Dy ^{III}] ₃ Single-Molecule Magnet. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7583-7587.	13.8	256
25	A High Anisotropy Barrier in a Sulfur-Bridged Organodysprosium Single-Molecule Magnet. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6976-6980.	13.8	254
26	Interplay of Strongly Anisotropic Metal Ions in Magnetic Blocking of Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 6328-6337.	4.0	239
27	Ab Initio Crystal Field for Lanthanides. <i>Chemistry - A European Journal</i> , 2017, 23, 3708-3718.	3.3	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.	13.8	235
29	Type-1.5 Superconductivity. <i>Physical Review Letters</i> , 2009, 102, 117001.	7.8	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.	3.3	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.	4.0	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.	13.8	220
33	Coupling Dy ³⁺ Triangles to Maximize the Toroidal Moment. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12767-12771.	13.8	207
34	First Heterotrimetallic {3f-4f-4f} Single Chain Magnet, Constructed from Anisotropic High-Spin, Heterometallic Nodes and Paramagnetic Spacers. <i>Chemistry - A European Journal</i> , 2009, 15, 11808-11814.	3.3	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.	13.8	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.	13.8	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.	4.0	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.	13.7	189
39	A single-molecule magnet assembly exhibiting a dielectric transition at 470 K. <i>Chemical Science</i> , 2012, 3, 3366.	7.4	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.	13.8	173
41	Modifying the properties of 4f single-ion magnets by peripheral ligand functionalisation. <i>Chemical Science</i> , 2014, 5, 1650-1660.	7.4	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.	13.7	157
43	Supramolecular architectures for controlling slow magnetic relaxation in field-induced single-molecule magnets. <i>Chemical Science</i> , 2012, 3, 2158.	7.4	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.	4.0	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.	13.7	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.	7.4	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.	13.7	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.	3.3	138
49	Vortex Entry and Nucleation of Antivortices in a Mesoscopic Superconducting Triangle. <i>Physical Review Letters</i> , 2001, 86, 1323-1326.	7.8	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.	7.4	127
51	Influencing the properties of dysprosium single-molecule magnets with phosphorus donor ligands. <i>Nature Communications</i> , 2015, 6, 7492.	12.8	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.	13.7	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.	3.3	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.	4.0	112

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55	Spectroscopic determination of crystal field splittings in lanthanide double deckers. <i>Chemical Science</i> , 2014, 5, 3287.	7.4	111
56	Symmetry related [DyIII6MnIII12] cores with different magnetic anisotropies. <i>Chemical Science</i> , 2011, 2, 1268.	7.4	108
57	Magneto-structural correlations in arsenic- and selenium-ligated dysprosium single-molecule magnets. <i>Chemical Science</i> , 2016, 7, 2128-2137.	7.4	105
58	Heterospin Systems Constructed from [Cu ₂ Ln] ³⁺ and [Ni(mnt) ₂] ¹⁺ Complexes (mnt = Maleonitriledithiolato). <i>Inorganic Chemistry</i> , 2008, 47, 940-950.	4.0	104
59	Er ³⁺ -doped Nanoparticles for Optical Detection of Magnetic Field. <i>Nano Letters</i> , 2009, 9, 721-724.	9.1	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.	3.3	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.	3.3	93
62	Heterometallic 3d-4f Single-Molecule Magnets: Ligand and Metal Ion Influences on the Magnetic Relaxation. <i>Inorganic Chemistry</i> , 2015, 54, 3631-3642.	4.0	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.	4.0	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.	3.3	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.	3.3	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.	13.8	78
67	A hydride-ligated dysprosium single-molecule magnet. <i>Chemical Communications</i> , 2013, 49, 901-903.	4.1	75
68	Energy level diagram and kinetics of luminescence of Ag nanoclusters dispersed in a glass host. <i>Optics Express</i> , 2012, 20, 13582.	3.4	74
69	Ytterbium can relax slowly too: a field-induced Yb ₂ single-molecule magnet. <i>Dalton Transactions</i> , 2012, 41, 12349.	3.3	73
70	Multitechnique investigation of Dy ₃ implications for coupled lanthanide clusters. <i>Chemical Science</i> , 2016, 7, 4347-4354.	7.4	70
71	By Design: A Macrocylic 3d-4f Single-Molecule Magnet with Quantifiable Zero-Field Slow Relaxation of Magnetization. <i>Inorganic Chemistry</i> , 2013, 52, 3236-3240.	4.0	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.	4.6	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.	3.3	67
74	Relaxations in heterolanthanide dinuclear single-molecule magnets. Chemical Communications, 2013, 49, 158-160.	4.1	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.	2.0	65
76	Scanning SQUID microscopy of vortex clusters in multiband superconductors. Physical Review B, 2010, 81, .	3.2	64
77	Toroidal magnetic states in molecular wheels: Interplay between isotropic exchange interactions and local magnetic anisotropy. Physical Review B, 2008, 77, .	3.2	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.	2.0	63
79	Observation of unusual slow-relaxation of the magnetisation in a Gd-EDTA chelate. Dalton Transactions, 2015, 44, 20321-20325.	3.3	62
80	A dinuclear cobalt(ii) complex of calix[8]arenes exhibiting strong magnetic anisotropy. Dalton Transactions, 2007, , 4582.	3.3	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.	2.0	57
83	Coupling Influences SMM Properties for Pure 4% Systems. Chemistry - A European Journal, 2018, 24, 6079-6086.	3.3	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.	4.0	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 Dy ₂ Co ₂ L ₁₀ (bipy) ₂ and Dy ₂ Ni ₂ L ₁₀ (bipy) ₂ . Inorganic Chemistry, 2014, 53, .	4.0	56
86	Stabilization of a Cobalt-Cobalt Bond by Two Cyclic Alkyl Amino Carbenes. Journal of the American Chemical Society, 2014, 136, 1770-1773.	13.7	55
87	Exchange interaction between J multiplets. Physical Review B, 2015, 91, .	3.2	55
88	Giant exchange interaction in mixed lanthanides. Scientific Reports, 2016, 6, 24046.	3.3	54
89	Molecular Spintronics in Mixed-Valence Magnetic Dimers: The Double-Exchange Blockade Mechanism. Journal of the American Chemical Society, 2010, 132, 8106-8114.	13.7	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.	5.3	50

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109	Exchange interactions in $Ti_2Cl_9^{3-}$: a critical analysis. <i>Inorganica Chimica Acta</i> , 1996, 251, 15-27.	2.4	34
110	A study of the electronic properties of Au nanowires and Au nanoislands on Au(111) surfaces. <i>Nanotechnology</i> , 2009, 20, 395401.	2.6	33
111	A Spectroscopic Investigation of Magnetic Exchange Between Highly Anisotropic Spin Centers. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4007-4011.	13.8	33
112	Multiple relaxation times in single-molecule magnets. <i>Physical Review B</i> , 2016, 94, .	3.2	33
113	Nematic superconducting state in iron pnictide superconductors. <i>Nature Communications</i> , 2017, 8, 1880.	12.8	33
114	Spin-lattice relaxation of magnetic centers in molecular crystals at low temperature. <i>Physical Review B</i> , 2018, 97, .	3.2	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.	2.0	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.	4.0	31
117	Ein heterometallischer $Fe^{II} \rightarrow Dy^{III}$ Einzelmolekülmagnet mit Rekord-Anisotropiebarriere. <i>Angewandte Chemie</i> , 2014, 126, 13180-13184.	2.0	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.	4.1	30
119	Magnetic frustration in a hexaazatrinaphthylene-bridged trimetallic dysprosium single-molecule magnet. <i>Dalton Transactions</i> , 2016, 45, 16556-16560.	3.3	30
120	Magnetic Anisotropy in Divalent Lanthanide Compounds. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12720-12724.	13.8	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.	7.8	28
122	Determination of magnetic anisotropy in a multinuclear Tb^{III} -based single-molecule magnet. <i>Chemical Communications</i> , 2015, 51, 10373-10376.	4.1	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.	4.0	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.	3.3	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.	3.3	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.	13.7	25

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127	Ein achtkerniger $[Cr^{III}_4Dy^{III}_4]^{3+}$ Einzelmolekülmagnet. <i>Angewandte Chemie</i> , 2010, 122, 7746-7750.		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.	2.8	25
129	Intermolecular mechanism for multiple maxima in molecular dynamic susceptibility. <i>Physical Review B</i> , 2018, 98, .	3.2	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.	13.8	25
131	Confinement of surface state electrons in self-organized Co islands on Au(111). <i>New Journal of Physics</i> , 2008, 10, 043016.	2.9	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.	3.1	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.	4.6	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.	7.3	24
135	Direct observation of the depairing current density in single-crystalline $Ba_{0.5}K_{0.5}Fe_2As_2$ microbridge with nanoscale thickness. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	23
136	Dynamical Jahn-Teller Effect and Antiferromagnetism in Cs_3C_6O . <i>Physical Review Letters</i> , 2013, 111, 056401.	7.8	22
137	Exchange Interactions Switch Tunneling: A Comparative Experimental and Theoretical Study on Relaxation Dynamics by Targeted Metal Ion Replacement. <i>Chemistry - A European Journal</i> , 2018, 24, 9928-9939.	3.3	21
138	Electronic Structure of Linear Thiophenolate-Bridged Heteronuclear Complexes $[LFeMFeL]_{n+}$ ($M = Cr, Tj$). <i>Journal of the American Chemical Society</i> , 2003, 125, 12615-12630.	13.7	20
139	Ising exchange interaction in lanthanides and actinides. <i>New Journal of Physics</i> , 2015, 17, 103028.	2.9	20
140	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.	3.6	20
141	Spin-orbital-lattice entangled states in cubic double perovskites. <i>Physical Review B</i> , 2018, 98, .		
142	Effect of the Metal Environment on the Ferromagnetic Interaction in the $Co^{IV}Ni^{II}W$ Pairs of Octacyanotungstate(V) Cobalt(II) Three-Dimensional Networks. <i>Inorganic Chemistry</i> , 2007, 46, 2682-2690.	4.0	19
143	Local destruction of superconductivity by non-magnetic impurities in mesoscopic iron-based superconductors. <i>Nature Communications</i> , 2015, 6, 7614.	12.8	19
144	Thermal expansion and magnetic properties of benzoquinone-bridged dinuclear rare-earth complexes. <i>Dalton Transactions</i> , 2017, 46, 13582-13589.	3.3	19

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145	Highly Oxidized States of Phthalocyaninato Terbium(III) Multiple-Decker Complexes Showing Structural Deformations, Biradical Properties and Decreases in Magnetic Anisotropy. Chemistry - A European Journal, 2020, 26, 8621-8630.	3.3	19
146	Complete Bond Force Fields for Trivalent and Deltahedral Cages: Group Theory and Applications to Cubane, Closo-dodecaborane, and Buckminsterfullerene. Journal of Physical Chemistry A, 2001, 105, 8284-8295.	2.5	18
147	Trends in trigonal prismatic Ln-[1]ferrocenophane complexes and discovery of a Ho ³⁺ single-molecule magnet. Chemical Science, 2020, 11, 3936-3951.	7.4	16
148	Coexistence of Spin-Lattice Relaxation and Phonon Bottleneck Processes in Gd III Phthalocyaninato Triple-Decker Complexes under Highly Diluted Conditions. Chemistry - A European Journal, 2020, 26, 8076-8082.	3.3	16
149	Density functional estimations of Heisenberg exchange constants in oligonuclear magnetic compounds: Assessment of density functional theory versus ab initio. Journal of Chemical Physics, 2009, 131, 224316.	3.0	15
150	Orbital disproportionation of electronic density is a universal feature of alkali-doped fullerenes. Nature Communications, 2016, 7, 13093.	12.8	15
151	Magnetization Blocking in Fe ₂ Dy ₂ Molecular Magnets: Ab Initio Calculations and EPR Spectroscopy. Chemistry - A European Journal, 2018, 24, 16652-16661.	3.3	15
152	Isolation of a triplet benzene dianion. Nature Chemistry, 2021, 13, 1001-1005.	13.6	15
153	Radial rescaling approach for the eigenvalue problem of a particle in an arbitrarily shaped box. Physical Review E, 2008, 77, 016702.	2.1	14
154	Theory of the kinetics of luminescence and its temperature dependence for Ag nanoclusters dispersed in a glass host. Physical Chemistry Chemical Physics, 2013, 15, 15949.	2.8	14
155	Magnetic anisotropy of Co ^{II} W ^V ferromagnet: single crystal and ab initio study. CrystEngComm, 2013, 15, 2378-2385.	2.6	14
156	Zeeman interaction and Jahn-Teller effect in the 8^1 multiplet. Physical Review B, 2017, 96, .	3.2	14
157	Dynamical Jahn-Teller effect of fullerene anions. Physical Review B, 2018, 97, .	3.2	13
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