

# Liviu F Chibotaru

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7926057/publications.pdf>

Version: 2024-02-01

200  
papers

21,979  
citations

11651

70  
h-index

9103

144  
g-index

215  
all docs

215  
docs citations

215  
times ranked

8082  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toroidal versus centripetal arrangement of the magnetic moment in a Dy <sup>4</sup> tetrahedron. <i>Chemical Communications</i> , 2022, 58, 1784-1787.	4.1	13
2	Multipolar exchange interaction and complex order in insulating lanthanides. <i>Physical Review B</i> , 2022, 105, .	3.2	3
3	Mechanisms of Luminescence in Lanthanide Complexes: A Crucial Role of Metal–Ligand Covalency. <i>Inorganic Chemistry</i> , 2022, 61, 5972-5976.	4.0	11
4	Holmium( <sup>iii</sup> ) molecular nanomagnets for optical thermometry exploring the luminescence re-absorption effect. <i>Chemical Science</i> , 2021, 12, 730-741.	7.4	46
5	An unusual mechanism of building up of a high magnetization blocking barrier in an octahedral alkoxy Dy <sup>3+</sup> -based single-molecule magnet. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1166-1174.	6.0	37
6	Design of Fe <sup>III</sup> –Ln <sup>III</sup> binuclear complexes using compartmental ligands: synthesis, crystal structures, magnetic properties, and <i>ab initio</i> analysis. <i>Journal of Materials Chemistry C</i> , 2021, 9, 10912-10926.	5.5	7
7	Jahn-Teller effect in the cubic fullerenes A <sub>3</sub> C <sub>60</sub> . <i>Physical Review B</i> , 2021, 103, .	3.2	3
8	Field-induced oscillation of magnetization blocking barrier in a holmium metallocrown single-molecule magnet. <i>CheM</i> , 2021, 7, 982-992.	11.7	36
9	Isolation of a triplet benzene dianion. <i>Nature Chemistry</i> , 2021, 13, 1001-1005.	13.6	15
10	Towards understanding the magnetism of Os( <sup>iv</sup> ) complexes: an <i>ab initio</i> insight. <i>Dalton Transactions</i> , 2021, 50, 12537-12546.	3.3	3
11	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
12	Axial Elongation of Mononuclear Lanthanide Metallocenophanes: Magnetic Properties of Dysprosium- and Terbium-1-Ruthenocenophane Complexes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13335-13340.	13.8	11
13	An Inconspicuous Six-Coordinate Neutral Dy <sup>III</sup> Single-Ion Magnet with Remarkable Magnetic Anisotropy and Stability. <i>Inorganic Chemistry</i> , 2020, 59, 7158-7166.	4.0	31
14	Highly Oxidized States of Phthalocyaninato Terbium(III) Multiple-Decker Complexes Showing Structural Deformations, Biradical Properties and Decreases in Magnetic Anisotropy. <i>Chemistry - A European Journal</i> , 2020, 26, 8621-8630.	3.3	19
15	Axial Elongation of Mononuclear Lanthanide Metallocenophanes: Magnetic Properties of Dysprosium- and Terbium-1-Ruthenocenophane Complexes. <i>Angewandte Chemie</i> , 2020, 132, 13437-13442.	2.0	1
16	Yu-Shiba-Rusinov bands in ferromagnetic superconducting diamond. <i>Science Advances</i> , 2020, 6, eaaz2536.	10.3	9
17	Modern quantum chemistry with [Open]Molcas. <i>Journal of Chemical Physics</i> , 2020, 152, 214117.	3.0	281
18	Trends in trigonal prismatic Ln-1-ferrocenophane complexes and discovery of a Ho <sup>3+</sup> single-molecule magnet. <i>Chemical Science</i> , 2020, 11, 3936-3951.	7.4	16

#	ARTICLE	IF	CITATIONS
19	Coexistence of Spin <sup>1/2</sup> -Lattice Relaxation and Phonon <sup>1/2</sup> -Bottleneck Processes in Gd III <sup>1/2</sup> -Phthalocyaninato Triple <sup>1/2</sup> -Decker Complexes under Highly Diluted Conditions. <i>Chemistry - A European Journal</i> , 2020, 26, 8076-8082.	3.3	16
20	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
21	Magnetic Anisotropy in Divalent Lanthanide Compounds. <i>Angewandte Chemie</i> , 2020, 132, 12820-12824.	2.0	5
22	Magnetic Anisotropy in Divalent Lanthanide Compounds. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12720-12724.	13.8	29
23	Ferromagnetic kinetic exchange interaction in magnetic insulators. <i>Physical Review Research</i> , 2020, 2, .	3.6	10
24	OpenMolcas: From Source Code to Insight. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 5925-5964.	5.3	661
25	Single Crystal Investigations Unravel the Magnetic Anisotropy of the <sup>1/2</sup> -Square-In Square <sup>1/2</sup> -Cr <sub>4</sub> Dy <sub>4</sub> SMM Coordination Cluster. <i>Frontiers in Chemistry</i> , 2019, 7, 6.	3.6	13
26	Determination of the electronic structure of a dinuclear dysprosium single molecule magnet without symmetry idealization. <i>Chemical Science</i> , 2019, 10, 2101-2110.	7.4	48
27	Effects of the Exchange Coupling on Dynamic Properties in a Series of CoGdCo Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 756-768.	4.0	9
28	Dysprosium Single <sup>1/2</sup> -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
29	Anomalous transverse resistance in 122-type iron-based superconductors. <i>Scientific Reports</i> , 2019, 9, 664.	3.3	5
30	Toward a Microscopic Understanding of the Magnetization Behavior of a Multimolecular Single Crystal of Radical-Bridged [Dy <sup>3+</sup> ] <sub>4</sub> Cubane Units: A Joint Ab Initio, Micro-Superconducting Quantum Interference Device, and Electron Paramagnetic Resonance Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11128-11135.	3.1	4
31	Coupling Influences SMM Properties for Pure 4 <sup>1/2</sup> -f Systems. <i>Chemistry - A European Journal</i> , 2018, 24, 6079-6086.	3.3	57
32	Spin-lattice relaxation of magnetic centers in molecular crystals at low temperature. <i>Physical Review B</i> , 2018, 97, .	3.2	32
33	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
34	Dynamical Jahn-Teller effect of fullerene anions. <i>Physical Review B</i> , 2018, 97, .	3.2	13
35	Intermolecular mechanism for multiple maxima in molecular dynamic susceptibility. <i>Physical Review B</i> , 2018, 98, .	3.2	25
36	Manifestation of vibronic dynamics in infrared spectra of Mott insulating fullerides. <i>Physical Review B</i> , 2018, 98, .	3.2	5



#	ARTICLE	IF	CITATIONS
55	Andrew Liehr and the structure of Jahn-Teller surfaces. <i>Journal of Physics: Conference Series</i> , 2017, 833, 012008.	0.4	2
56	Redox Switches for Single-Molecule Magnet Activity: An Ab Initio Insight. <i>Chemistry - A European Journal</i> , 2016, 22, 5309-5318.	3.3	5
57	New mechanism of kinetic exchange interaction induced by strong magnetic anisotropy. <i>Scientific Reports</i> , 2016, 6, 24743.	3.3	11
58	<sc>Molcas</sc> 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
59	Magnetic frustration in a hexaazatrinaphthylene-bridged trimetallic dysprosium single-molecule magnet. <i>Dalton Transactions</i> , 2016, 45, 16556-16560.	3.3	30
60	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
61	Multiple relaxation times in single-molecule magnets. <i>Physical Review B</i> , 2016, 94, .	3.2	33
62	Strategies toward High-Temperature Lanthanide-Based Single-Molecule Magnets. <i>Inorganic Chemistry</i> , 2016, 55, 10043-10056.	4.0	342
63	Giant exchange interaction in mixed lanthanides. <i>Scientific Reports</i> , 2016, 6, 24046.	3.3	54
64	Synthesis, Crystal Structures, Magnetic Properties, and Theoretical Investigation of a New Series of Ni <sup>II</sup> -Ln <sup>III</sup> -W <sup>V</sup> Heterotrimetallics: Understanding the SMM Behavior of Mixed Polynuclear Complexes. <i>Inorganic Chemistry</i> , 2016, 55, 12158-12171.	4.0	39
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.	3.6	20
66	Orbital disproportionation of electronic density is a universal feature of alkali-doped fullerenes. <i>Nature Communications</i> , 2016, 7, 13093.	12.8	15
67	Multitechnique investigation of Dy <sub>3</sub> implications for coupled lanthanide clusters. <i>Chemical Science</i> , 2016, 7, 4347-4354.	7.4	70
68	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
69	Magneto-structural correlations in arsenic- and selenium-ligated dysprosium single-molecule magnets. <i>Chemical Science</i> , 2016, 7, 2128-2137.	7.4	105
70	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
71	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, 9861-9865.	13.8	268
72	Ising exchange interaction in lanthanides and actinides. <i>New Journal of Physics</i> , 2015, 17, 103028.	2.9	20

#	ARTICLE	IF	CITATIONS
73	Optical Activity and Dehydration-Driven Switching of Magnetic Properties in Enantiopure Cyanido-Bridged Co <sup>II</sup> <sub>3</sub> W <sup>V</sup> <sub>2</sub> Trigonal Bipyramids. <i>Inorganic Chemistry</i> , 2015, 54, 5784-5794.	4.0	27
74	Exchange interaction between $J$ multiplets. <i>Physical Review B</i> , 2015, 91, .	3.2	55
75	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
76	Local destruction of superconductivity by non-magnetic impurities in mesoscopic iron-based superconductors. <i>Nature Communications</i> , 2015, 6, 7614.	12.8	19
77	Influencing the properties of dysprosium single-molecule magnets with phosphorus donor ligands. <i>Nature Communications</i> , 2015, 6, 7492.	12.8	126
78	Dynamical Jahn-Teller instability in metallic fullerides. <i>Physical Review B</i> , 2015, 91, .	3.2	11
79	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
80	Determination of magnetic anisotropy in a multinuclear Tb <sup>III</sup> -based single-molecule magnet. <i>Chemical Communications</i> , 2015, 51, 10373-10376.	4.1	28
81	Plasmonic Dicke Effect in Ag-Nanoclusters-Doped Oxyfluoride Glasses. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20051-20056.	3.1	9
82	Tuning the Magnetic Interactions and Relaxation Dynamics of Dy <sub>2</sub> Single-Molecule Magnets. <i>Chemistry - A European Journal</i> , 2015, 21, 14099-14106.	3.3	87
83	Observation of unusual slow-relaxation of the magnetisation in a Gd-EDTA chelate. <i>Dalton Transactions</i> , 2015, 44, 20321-20325.	3.3	62
84	The first 4d/4f single-molecule magnet containing a {Ru <sup>III</sup> <sub>2</sub> Dy <sup>III</sup> <sub>2</sub> } core. <i>Chemical Communications</i> , 2015, 51, 2044-2047.	4.1	30
85	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
86	Theoretical Understanding of Anisotropy in Molecular Nanomagnets. <i>Structure and Bonding</i> , 2014, , 185-229.	1.0	58
87	A Catalyst with Two-Coordinate Nickel: Theoretical and Catalytic Studies. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 818-823.	2.0	57
88	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
89	Single-Molecule Magnetism in a Family of {Co <sup>III</sup> <sub>2</sub> Dy <sup>III</sup> <sub>2</sub> } Butterfly Complexes: Effects of Ligand Replacement on the Dynamics of Magnetic Relaxation. <i>Inorganic Chemistry</i> , 2014, 53, 4303-4315.	4.0	88
90	Stabilization of a Cobalt-Cobalt Bond by Two Cyclic Alkyl Amino Carbenes. <i>Journal of the American Chemical Society</i> , 2014, 136, 1770-1773.	13.7	55

#	ARTICLE	IF	CITATIONS
91	Coupling Strategies to Enhance Single-Molecule Magnet Properties of Erbium-“Cyclooctatetraenyl Complexes. <i>Journal of the American Chemical Society</i> , 2014, 136, 8003-8010.	13.7	278
92	Spectroscopic determination of crystal field splittings in lanthanide double deckers. <i>Chemical Science</i> , 2014, 5, 3287.	7.4	111
93	Field-Induced Multiple Relaxation Mechanism of Co <sup>III</sup> <sub>2</sub>Dy <sup>III&lt;/sup&gt; Compound with the Dysprosium Ion in a Low-Symmetrical Environment. <i>Inorganic Chemistry</i>, 2014, 53, 12658-12663.</sup>	4.0	42
94	Chemical tuning of the magnetic relaxation in dysprosium(III) mononuclear complexes. <i>Dalton Transactions</i> , 2014, 43, 12146-12149.	3.3	45
95	Single-molecule toroics in Ising-type lanthanide molecular clusters. <i>Chemical Society Reviews</i> , 2014, 43, 6894-6905.	38.1	325
96	Modifying the properties of 4f single-ion magnets by peripheral ligand functionalisation. <i>Chemical Science</i> , 2014, 5, 1650-1660.	7.4	159
97	A simple derivation of the Landau-Zener formula. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6942.	2.8	10
98	Electronic Structure and Slow Magnetic Relaxation of Low-Coordinate Cyclic Alkyl(amino) Carbene Stabilized Iron(II) Complexes. <i>Journal of the American Chemical Society</i> , 2014, 136, 11964-11971.	13.7	145
99	Synthesis, Structure, and Magnetic Properties of Dy <sub>2</sub> Co <sub>2</sub> Ln <sub>10</sub> (bipy) <sub>2</sub> and Ln <sub>2</sub> Ni <sub>2</sub> Ln <sub>10</sub> (bipy) <sub>2</sub> , Ln = La, Gd, Tb, Dy, and Ho: Slow Magnetic Relaxation in Dy <sub>2</sub> Co <sub>2</sub> Ln <sub>10</sub> (bipy) <sub>2</sub> and Dy <sub>2</sub> Ni <sub>2</sub> Ln <sub>10</sub> (bipy) <sub>2</sub> . <i>Inorganic Chemistry</i> , 2014, 53,	4.0	56
100	Correction to “Key Role of Frustration in Suppression of Magnetization Blocking in Single-Molecule Magnets”. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1678-1678.	4.6	2
101	A Heterometallic Fe <sup>II</sup> -Dy <sup>III</sup> Single-Molecule Magnet with a Record Anisotropy Barrier. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12966-12970.	13.8	235
102	Modulation of slow magnetic relaxation by tuning magnetic exchange in {Cr <sub>2</sub> Dy <sub>2</sub> } single molecule magnets. <i>Chemical Science</i> , 2014, 5, 3246-3256.	7.4	127
103	Efficient solution of 3D Ginzburg-Landau problem for mesoscopic superconductors. <i>Journal of Physics: Conference Series</i> , 2014, 490, 012220.	0.4	5
104	Ein heterometallischer Fe <sup>II</sup> -Dy <sup>III</sup> -Einzelmolekülmagnet mit Rekord-Anisotropiebarriere. <i>Angewandte Chemie</i> , 2014, 126, 13180-13184.	2.0	30
105	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
106	Magnetic relaxation pathways in lanthanide single-molecule magnets. <i>Nature Chemistry</i> , 2013, 5, 673-678.	13.6	649
107	Switching the anisotropy barrier of a single-ion magnet by symmetry change from quasi-D <sub>5h</sub> to quasi-O <sub>h</sub> . <i>Chemical Science</i> , 2013, 4, 3310.	7.4	469
108	Dynamical Jahn-Teller Effect and Antiferromagnetism in Cs <sub>3</sub> C <sub>60</sub> . <i>Physical Review Letters</i> , 2013, 111, 056401.	7.8	22



#	ARTICLE	IF	CITATIONS
109	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
110	Direct observation of the depairing current density in single-crystalline Ba <sub>0.5</sub> K <sub>0.5</sub> Fe <sub>2</sub> As <sub>2</sub> microbridge with nanoscale thickness. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	23
111	A {Cr <sup>III</sup> }<sub>2</sub>Dy<sup>III</sup><sub>2</sub>} Single-Molecule Magnet: Enhancing the Blocking Temperature through 3d Magnetic Exchange. <i>Angewandte Chemie</i> , 2013, 125, 12236-12241.	2.0	63
112	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
113	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
114	Angular-Resolved Magnetometry Beyond Triclinic Crystals: Out-of-Equilibrium Studies of Cp*ErCOT Single-Molecule Magnet. <i>Chemistry - A European Journal</i> , 2013, 19, 13726-13731.	3.3	67
115	Theory of the kinetics of luminescence and its temperature dependence for Ag nanoclusters dispersed in a glass host. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15949.	2.8	14
116	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
117	A {Cr <sup>III</sup> }<sub>2</sub>Dy<sup>III</sup><sub>2</sub>} Single-Molecule Magnet: Enhancing the Blocking Temperature through 3d Magnetic Exchange. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12014-12019.	13.8	338
118	A hydride-ligated dysprosium single-molecule magnet. <i>Chemical Communications</i> , 2013, 49, 901-903.	4.1	75
119	Relaxations in heterolanthanide dinuclear single-molecule magnets. <i>Chemical Communications</i> , 2013, 49, 158-160.	4.1	66
120	Magnetic anisotropy of Co <sup>II</sup> -W <sup>V</sup> ferromagnet: single crystal and ab initio study. <i>CrystEngComm</i> , 2013, 15, 2378-2385.	2.6	14
121	An Organometallic Building Block Approach To Produce a Multidecker Single-Molecule Magnet. <i>Journal of the American Chemical Society</i> , 2013, 135, 3502-3510.	13.7	189
122	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
123	By Design: A Macrocyclic 3d-4f Single-Molecule Magnet with Quantifiable Zero-Field Slow Relaxation of Magnetization. <i>Inorganic Chemistry</i> , 2013, 52, 3236-3240.	4.0	69
124	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
125	Interplay of Strongly Anisotropic Metal Ions in Magnetic Blocking of Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 6328-6337.	4.0	239
126	Solution of linearized Ginzburg-Landau problem for mesoscopic superconductors by conformal mapping. <i>Journal of Physics: Conference Series</i> , 2013, 410, 012162.	0.4	1



#	ARTICLE	IF	CITATIONS
127	Quantum states and vortex patterns in nanosuperconductors. <i>Annalen Der Physik</i> , 2013, 525, 951-956.	2.4	6
128	Method for the solution of the nucleation problem in arbitrary mesoscopic superconductors: Theory and application. <i>Physical Review E</i> , 2012, 86, 056709.	2.1	6
129	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
130	Mechanisms of localization in isotope-substituted dynamical Jahn-Teller systems. <i>Europhysics Letters</i> , 2012, 100, 43001.	2.0	2
131	Net Toroidal Magnetic Moment in the Ground State of a $\text{Dy}_{6}$ -Triethanolamine Ring. <i>Journal of the American Chemical Society</i> , 2012, 134, 18554-18557.	13.7	157
132	Coupling $\text{Dy}_{3}$ Triangles to Maximize the Toroidal Moment. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12767-12771.	13.8	207
133	Heterometallic Tetranuclear $[\text{Ln}^{\text{III}}\text{Co}^{\text{II}}]_{2}$ Complexes Including Suppression of Quantum Tunneling of Magnetization in the $[\text{Dy}^{\text{III}}\text{Co}^{\text{II}}]_{2}$ Single Molecule Magnet. <i>Inorganic Chemistry</i> , 2012, 51, 11873-11881.	4.0	154
134	Heterometallic $\text{CuI}/\text{DyIII}$ 1D chiral polymers: chirogenesis and exchange coupling of toroidal moments in trinuclear $\text{Dy}_{3}$ single molecule magnets. <i>Chemical Science</i> , 2012, 3, 1169.	7.4	146
135	The First $\text{Dy}_{4}$ Single-Molecule Magnet with a Toroidal Magnetic Moment in the Ground State. <i>Inorganic Chemistry</i> , 2012, 51, 1233-1235.	4.0	191
136	Synthesis and Magnetic Properties of a New Family of Macrocyclic $\text{MII}3\text{LnIII}$ Complexes: Insights into the Effect of Subtle Chemical Modification on Single-Molecule Magnet Behavior. <i>Inorganic Chemistry</i> , 2012, 51, 10603-10612.	4.0	56
137	A single-molecule magnet assembly exhibiting a dielectric transition at 470 K. <i>Chemical Science</i> , 2012, 3, 3366.	7.4	175
138	Ytterbium can relax slowly too: a field-induced $\text{Yb}_{2}$ single-molecule magnet. <i>Dalton Transactions</i> , 2012, 41, 12349.	3.3	73
139	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
140	Experiment and theoretical modeling of the luminescence of silver nanoclusters dispersed in oxyfluoride glass. <i>Journal of Chemical Physics</i> , 2012, 136, 174108.	3.0	40
141	Supramolecular architectures for controlling slow magnetic relaxation in field-induced single-molecule magnets. <i>Chemical Science</i> , 2012, 3, 2158.	7.4	155
142	Coexistence of Distinct Single-Ion and Exchange-Based Mechanisms for Blocking of Magnetization in a $\text{Co}_{2}\text{Dy}_{2}$ Single-Molecule Magnet. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7550-7554.	13.8	277
143	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
144	Hysteresis in the ground and excited spin state up to 10 T of a $[\text{MnIII}_{6}\text{MnIII}]_{3+}$ triplesalen single-molecule magnet. <i>Chemical Science</i> , 2012, 3, 2868.	7.4	37

#	ARTICLE	IF	CITATIONS
145	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
146	Vortex matter in mesoscopic two-gap superconductor square. <i>Physical Review B</i> , 2011, 84, .	3.2	38
147	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
148	Strong Axiality and Ising Exchange Interaction Suppress Zero-Field Tunneling of Magnetization of an Asymmetric Dy <sub>2</sub> Single-Molecule Magnet. <i>Journal of the American Chemical Society</i> , 2011, 133, 11948-11951.	13.7	670
149	Magnetic anisotropy in the excited states of low symmetry lanthanide complexes. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20086.	2.8	333
150	Symmetry related [DyIII6MnIII12] cores with different magnetic anisotropies. <i>Chemical Science</i> , 2011, 2, 1268.	7.4	108
151	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
152	A Rare $\frac{1}{4}$ -Centred Dy <sub>4</sub> Tetrahedron with Coordination-Induced Local Chirality and Single-Molecule Magnet Behaviour. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 1535-1539.	2.0	65
153	A Spectroscopic Investigation of Magnetic Exchange Between Highly Anisotropic Spin Centers. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4007-4011.	13.8	33
154	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
155	Structure, Magnetism and Theory of a Family of Nonanuclear Cu <sup>II</sup> <sub>5</sub> Ln <sup>III</sup> <sub>4</sub> Triethanolamine Clusters Displaying Single-Molecule Magnet Behaviour. <i>Chemistry - A European Journal</i> , 2011, 17, 9209-9218.	3.3	114
156	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
157	Back Cover: A Non-sandwiched Macrocyclic Monolanthanide Single-Molecule Magnet: The Key Role of Axiality (Chem. Eur. J. 16/2011). <i>Chemistry - A European Journal</i> , 2011, 17, 4660-4660.	3.3	0
158	Estimation of the Vibronic Coupling Constants of Fullerene Monoanion: Comparison Between Experimental and Simulated Results. <i>Progress in Theoretical Chemistry and Physics</i> , 2011, , 245-264.	0.2	1
159	Ein achtkerniger [Cr <sup>III</sup> <sub>4</sub> Dy <sup>III</sup> <sub>4</sub> ] $\beta$ -EinzelmolekÅlmagnet. <i>Angewandte Chemie</i> , 2010, 122, 7746-7750.	2.0	25
160	An Octanuclear [Cr <sup>III</sup> <sub>4</sub> Dy <sup>III</sup> <sub>4</sub> ] $\beta$ Single-Molecule Magnet. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7583-7587.	13.8	256
161	Scanning SQUID microscopy of vortex clusters in multiband superconductors. <i>Physical Review B</i> , 2010, 81, .	3.2	64
162	Vibronic coupling in $C_{60}^{2-}$ revisited: Derivations from photoelectron spectra and DFT calculations. <i>Physical Review B</i> , 2010, 82, .	8.2	366

#	ARTICLE	IF	CITATIONS
163	Dysprosium-based experimental representatives of an Ising-Heisenberg chain and a decorated Ising ring. <i>Physical Review B</i> , 2010, 82, .	3.2	42
164	Molecular spintronics using noncollinear magnetic molecules. <i>Physical Review B</i> , 2010, 81, .	3.2	46
165	Molecular Spintronics in Mixed-Valence Magnetic Dimers: The Double-Exchange Blockade Mechanism. <i>Journal of the American Chemical Society</i> , 2010, 132, 8106-8114.	13.7	51
166	Density functional estimations of Heisenberg exchange constants in oligonuclear magnetic compounds: Assessment of density functional theory versus ab initio. <i>Journal of Chemical Physics</i> , 2009, 131, 224316.	3.0	15
167	First Heterotrimetallic $\{3d^4d^4d^4\}$ 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
168	Supramolecular $\text{Cu}^{\text{II}}/\text{Ln}^{\text{III}}$ Complexes: A $\{\text{Cu}_3\text{Dy}_3\}_2$ Single-Molecule Magnet. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1614-1619.	13.8	191
169	A Polynuclear Lanthanide Single-Molecule Magnet with a Record Anisotropic Barrier. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9489-9492.	13.8	557
170	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
171	Type-1.5 Superconductivity. <i>Physical Review Letters</i> , 2009, 102, 117001.	7.8	230
172	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
173	$\text{Er}^{3+}$ -doped Nanoparticles for Optical Detection of Magnetic Field. <i>Nano Letters</i> , 2009, 9, 721-724.	9.1	96
174	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
175	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, 586-594.	5.3	50
176	Heterospin Systems Constructed from $[\text{Cu}_2\text{Ln}]^{3+}$ and $[\text{Ni}(\text{mnt})_2]^{1+}$ Complexes (mnt = Maleonitriledithiolato). <i>Inorganic Chemistry</i> , 2008, 47, 940-950.	4.0	104
177	Structure, Magnetism, and Theoretical Study of a Mixed-Valence $\text{Co}^{\text{II}}\text{Co}^{\text{III}}\text{Co}^{\text{III}}\text{Co}^{\text{IV}}$ 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
178	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
179	Toroidal magnetic states in molecular wheels: Interplay between isotropic exchange interactions and local magnetic anisotropy. <i>Physical Review B</i> , 2008, 77, .	3.2	63
180	Conductance of a copper-nanotube bundle interface: Impact of interface geometry and wave-function interference. <i>Physical Review B</i> , 2008, 77, .	3.2	10

#	ARTICLE	IF	CITATIONS
181	Radial rescaling approach for the eigenvalue problem of a particle in an arbitrarily shaped box. <i>Physical Review E</i> , 2008, 77, 016702.	2.1	14
182	Thermodynamically stable noncomposite vortices in mesoscopic two-gap superconductors. <i>Europhysics Letters</i> , 2007, 78, 47001.	2.0	47
183	Mechanisms of Spin-Mixing Instabilities in Antiferromagnetic Molecular Wheels. <i>Physical Review Letters</i> , 2007, 99, 077204.	7.8	8
184	Effect of the Metal Environment on the Ferromagnetic Interaction in the Co <sup>~</sup> NC <sup>~</sup> W Pairs of Octacyanotungstate(V) <sup>~</sup> Cobalt(II) Three-Dimensional Networks. <i>Inorganic Chemistry</i> , 2007, 46, 2682-2690.	4.0	19
185	Analytical solutions for the E <sup>~</sup> -e dynamic Jahn-Teller problem in the strong coupling limit. <i>Journal of Molecular Structure</i> , 2007, 838, 8-12.	3.6	0
186	A dinuclear cobalt(ii) complex of calix[8]arenes exhibiting strong magnetic anisotropy. <i>Dalton Transactions</i> , 2007, , 4582.	3.3	58
187	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.	2.5	38
188	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
189	The E <sup>~</sup> -e dynamic Jahn-Teller problem: A new insight from the strong coupling limit. <i>Journal of Chemical Physics</i> , 2005, 122, 054104.	3.0	11
190	An ab initio Study of the Ligand Field and Charge-Transfer Transitions of Cr(CN)3-6 and Mo(CN)3-6.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
191	An Ab Initio Study of the Ligand Field and Charge-Transfer Transitions of Cr(CN)63-and Mo(CN)63-. <i>Journal of the American Chemical Society</i> , 2003, 125, 3694-3695.	13.7	25
192	Electronic Structure of Linear Thiophenolate-Bridged Heteronuclear Complexes [LFeMFeL]n+(M = Cr,) Tj ETQq0 0 0 rgBT /Overlock 10 T the American Chemical Society, 2003, 125, 12615-12630.	13.7	20
193	Mechanism of a Strongly Anisotropic Moll <sup>~</sup> CN <sup>~</sup> MnII Spin <sup>~</sup> 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
194	Complete Bond Force Fields for Trivalent and Deltahedral Cages:â€™% Group Theory and Applications to Cubane, Closo-dodecaborane, and Buckminsterfullerene. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8284-8295.	2.5	18
195	Description of nanotubes using line group symmetry. <i>AIP Conference Proceedings</i> , 2001, , .	0.4	1
196	Origin of Ferromagnetism in Cyano-Bridged Compounds Containing d1 Octacyanometalates 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.	13.8	37
197	Vortex Entry and Nucleation of Antivortices in a Mesoscopic Superconducting Triangle. <i>Physical Review Letters</i> , 2001, 86, 1323-1326.	7.8	133
198	Symmetry-induced formation of antivortices in mesoscopic superconductors. <i>Nature</i> , 2000, 408, 833-835.	27.8	283

#	ARTICLE	IF	CITATIONS
199	Exchange interactions in $Ti_2Cl_3$ and the magnetic susceptibility tensor. <i>Molecular Physics</i> , 1999, 97, 1197-1202.	1.7	9
200	Exchange interactions in $Ti_2Cl_3$ : a critical analysis. <i>Inorganica Chimica Acta</i> , 1996, 251, 15-27.	2.4	34