Lorenzo Sorace

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9472147/publications.pdf

Version: 2024-02-01

226 papers	11,303 citations	31976 53 h-index	39675 94 g-index
239 all docs	239 docs citations	239 times ranked	7291 citing authors

#	Article	IF	Citations
1	Lanthanides in molecular magnetism: old tools in a new field. Chemical Society Reviews, 2011, 40, 3092.	38.1	963
2	Quantum tunnelling of the magnetization in a monolayer of oriented single-molecule magnets. Nature, 2010, 468, 417-421.	27.8	574
3	Single-Molecule Magnet Behavior of a Tetranuclear Iron(III) Complex. The Origin of Slow Magnetic Relaxation in Iron(III) Clusters. Journal of the American Chemical Society, 1999, 121, 5302-5310.	13.7	454
4	Quinonoid Metal Complexes:â€‰ Toward Molecular Switches. Accounts of Chemical Research, 2004, 37, 827-835.	15.6	337
5	Room-Temperature Quantum Coherence and Rabi Oscillations in Vanadyl Phthalocyanine: Toward Multifunctional Molecular Spin Qubits. Journal of the American Chemical Society, 2016, 138, 2154-2157.	13.7	286
6	Tuning Anisotropy Barriers in a Family of Tetrairon(III) Single-Molecule Magnets with anS= 5 Ground State. Journal of the American Chemical Society, 2006, 128, 4742-4755.	13.7	205
7	The molecular approach to nanoscale magnetism. Journal of Magnetism and Magnetic Materials, 1999, 200, 182-201.	2.3	202
8	Beyond the anisotropy barrier: slow relaxation of the magnetization in both easy-axis and easy-plane Ln(trensal) complexes. Chemical Communications, 2014, 50, 1648-1651.	4.1	192
9	Thermally and Light-Induced Valence Tautomeric Transition in a Dinuclear Cobaltâ€“Tetraoxolene Complex. Angewandte Chemie - International Edition, 2004, 43, 3136-3138.	13.8	183
10	Quantum Coherence Times Enhancement in Vanadium(IV)-based Potential Molecular Qubits: the Key Role of the Vanadyl Moiety. Journal of the American Chemical Society, 2016, 138, 11234-11244.	13.7	180
11	Origin of Second-Order Transverse Magnetic Anisotropy inMn12-Acetate. Physical Review Letters, 2002, 89, 257201.	7.8	154
12	Quantum coherence in a processable vanadyl complex: new tools for the search of molecular spin qubits. Chemical Science, 2016, 7, 2074-2083.	7.4	144
13	Energy-Barrier Enhancement by Ligand Substitution in Tetrairon(III) Single-Molecule Magnets. Angewandte Chemie - International Edition, 2004, 43, 1136-1139.	13.8	134
14	Antiferromagnetic Coupling in a Gadolinium(III) Semiquinonato Complex. Angewandte Chemie - International Edition, 2000, 39, 246-248.	13.8	130
15	Hints for the Control of Magnetic Anisotropy in Molecular Materials. Journal of Solid State Chemistry, 2001, 159, 253-261.	2.9	127
16	Scaling Up Electronic Spin Qubits into a Three-Dimensional Metalâ€“Organic Framework. Journal of the American Chemical Society, 2018, 140, 12090-12101.	13.7	122
17	Tuning the Charge Distribution and Photoswitchable Properties of Cobaltâ€“Dioxolene Complexes by Using Molecular Techniques. Chemistry - A European Journal, 2008, 14, 1804-1813.	3.3	116
18	Spin Dynamics and Low Energy Vibrations: Insights from Vanadyl-Based Potential Molecular Qubits. Journal of the American Chemical Society, 2017, 139, 4338-4341.	13.7	114

#	Article	IF	Citations
19	Utilizing the Adaptive Polyoxometalate [As₂W₁₉O₆₇(H₂O)]^{14â€“} To Support a Polynuclear Lanthanoid-Based Single-Molecule Magnet. Inorganic Chemistry, 2011, 50, 7004-7014.	4.0	113
20	Very Large Ising-Type Magnetic Anisotropy in a Mononuclear NiII Complex. Angewandte Chemie - International Edition, 2005, 44, 1876-1879.	13.8	109
21	Ising-Type Magnetic Anisotropy in a Cobalt(II) Nitronyl Nitroxide Compound: A Key to Understanding the Formation of Molecular Magnetic Nanowires. Chemistry - A European Journal, 2002, 8, 286-292.	3.3	103
22	EPR of molecular nanomagnets. Coordination Chemistry Reviews, 2006, 250, 1514-1529.	18.8	102
23	Redox Activity and Two-Step Valence Tautomerism in a Family of Dinuclear Cobalt Complexes with a Spiroconjugated Bis(dioxolene) Ligand. Journal of the American Chemical Society, 2013, 135, 8304-8323.	13.7	102
24	The Origin of Transverse Anisotropy in Axially Symmetric Single Molecule Magnets. Journal of the American Chemical Society, 2007, 129, 10754-10762.	13.7	89
25	Softâ€Xâ€rayâ€Induced Redox Isomerism in a Cobalt Dioxolene Complex. Angewandte Chemie - International Edition, 2010, 49, 1954-1957.	13.8	89
26	Complete Direct and Reverse Optically Induced Valence Tautomeric Interconversion in a Cobaltâ€“Dioxolene Complex. Chemistry - A European Journal, 2008, 14, 10915-10918.	3.3	86
27	Structural Effects on the Spin Dynamics of Potential Molecular Qubits. Inorganic Chemistry, 2018, 57, 731-740.	4.0	86
28	A two-qubit molecular architecture for electron-mediated nuclear quantum simulation. Chemical Science, 2018, 9, 6183-6192.	7.4	80
29	Molecular magnetism, status and perspectives. Solid State Sciences, 2008, 10, 1701-1709.	3.2	75
30	Giant spinâ€“phonon bottleneck effects in evaporable vanadyl-based molecules with long spin coherence. Dalton Transactions, 2016, 45, 16635-16643.	3.3	75
31	Electronic Influence of the Thienyl Sulfur Atom on the Oligomerization of Ethylene by Cobalt(II) 6-(Thienyl)-2-(imino)pyridine Catalysis. Organometallics, 2007, 26, 726-739.	2.3	74
32	Magnetic Anisotropy of Tetrahedral Co^{II} Single-Ion Magnets: Solid-State Effects. Inorganic Chemistry, 2016, 55, 9537-9548.	4.0	74
33	Self-Assembled Organic Radicals on Au(111) Surfaces: A Combined ToF-SIMS, STM, and ESR Study. Langmuir, 2007, 23, 2389-2397.	3.5	73
34	Structure and Magnetism of a New Hydrogen-Bonded Layered Cobalt(II) Network, Constructed by the Unprecedented Carboxylateâ˜Phosphinate Ligand [O2(C6H5)PCH2CO2]2-. Inorganic Chemistry, 2005, 44, 2060-2066.	4.0	71
35	Cobalt-Dioxolene Redox Isomers: Potential Spintronic Devices. Applied Magnetic Resonance, 2010, 38, 139-153.	1.2	71
36	Antiferromagnetic coupling between rare earth ions and semiquinones in a series of 1 âˆ¶ 1 complexes. Dalton Transactions, 2004, , 1048-1055.	3.3	69

#	Article	IF	Citations
37	Synthesis of New Polydentate Nitrogen Ligands and Their Use in Ethylene Polymerization in Conjunction with Iron(II) and Cobalt(II) Bis-halides and Methylaluminoxane. Organometallics, 2007, 26, 4639-4651.	2.3	69
38	Ordering Magnetic Molecules within Nanoporous Crystalline Polymers. Chemistry of Materials, 2009, 21, 4750-4752.	6.7	69
39	Solvation effects on the valence tautomeric transition of a cobalt complex in the solid state. Dalton Transactions, 2010, 39, 4757-4767.	3.3	66
40	Exploring the Noâ€Manâ€™s Land between Molecular Nanomagnets and Magnetic Nanoparticles. Angewandte Chemie - International Edition, 2012, 51, 4792-4800.	13.8	65
41	Determination of Magnetic Anisotropy in the LnTRENSAL Complexes (Ln = Tb, Dy, Er) by Torque Magnetometry. Inorganic Chemistry, 2015, 54, 3090-3092.	4.0	62
42	Ferromagnetically Coupled Bis(semiquinone) Ligand Enforces High-Spin Ground States in Bis-metal Complexes. Inorganic Chemistry, 2001, 40, 408-411.	4.0	60
43	Photon-assisted tunneling in aFe8single-molecule magnet. Physical Review B, 2003, 68, .	3.2	60
44	A Pseudoâ€Octahedral Cobalt(II) Complex with Bispyrazolylpyridine Ligands Acting as a Zeroâ€Field Singleâ€Molecule Magnet with Easy Axis Anisotropy. Chemistry - A European Journal, 2018, 24, 8857-8868.	3.3	60
45	Spontaneous Symmetry Breaking in the Formation of a Dinuclear Gadolinium Semiquinonato Complex: Synthesis, High-Field EPR Studies, and Magnetic Properties. Chemistry - A European Journal, 2000, 6, 4580-4586.	3.3	59
46	A 3D network of helicates fully assembled by Ï€-stacking interactions. Chemical Communications, 2003, , 1840-1841.	4.1	59
47	Single-Crystal High-Frequency Electron Paramagnetic Resonance Investigation of a Tetranuclear Iron(III) Single-Molecule Magnet. Journal of Physical Chemistry B, 2001, 105, 2658-2663.	2.6	58
48	Charge Distribution in Bis-Dioxolene Radical Metal Complexes. Synthesis and DFT Characterization of Dinuclear Co(III) and Cr(III) Complexes with a Mixed-Valent,S=1/2Semiquinone-Catecholate Ligand. Inorganic Chemistry, 2001, 40, 1582-1590.	4.0	58
49	Thermal Deposition of Intact Tetrairon(III) Singleâ€Molecule Magnets in Highâ€Vacuum Conditions. Small, 2009, 5, 1460-1466.	10.0	58
50	A unique heteropentanuclear CuII2CoIICoIII2 complex, synthesised from metallic Cu and Co acetate in the presence of triethanolamine. Magnetic properties and a strong H-bond stabilised lattice. New Journal of Chemistry, 2001, 25, 685-689.	2.8	57
51	Relaxation Dynamics and Magnetic Anisotropy in a Lowâ€Symmetry Dy^{III} Complex. Chemistry - A European Journal, 2016, 22, 5552-5562.	3.3	56
52	Molecular nanomagnets and magnetic nanoparticles: the EMR contribution to a common approach. Physical Chemistry Chemical Physics, 2009, 11, 6555.	2.8	55
53	Magnetic and Spectroscopic Investigation of Thermally and Optically Driven Valence Tautomerism in Thioether-Bridged Dinuclear Cobaltâ€“Dioxolene Complexes. Inorganic Chemistry, 2013, 52, 11798-11805.	4.0	55
54	Magnetic and Luminescent Binuclear Double-Stranded Helicates. Inorganic Chemistry, 2014, 53, 7738-7747.	4.0	55

#	Article	IF	Citations
55	A bis-bidentate dioxolene ligand induces thermal hysteresis in valence tautomerism interconversion processes. Chemical Communications, 2001, , 2150-2151.	4.1	54
56	Conformational rearrangement of 2,6-bis(1-salicyloylhydrazonoethyl)pyridine (H4daps) on complexation. Synthesis and X-ray characterisation of H4daps and its copper helicate complex [Cu(H2daps)(H2O)]2Â·2CH3CN. New Journal of Chemistry, 2003, 27, 1753-1759.	2.8	53
57	Slow Magnetic Relaxation from Hardâ€Axis Metal Ions in Tetranuclear Singleâ€Molecule Magnets. Chemistry - A European Journal, 2010, 16, 10482-10493.	3.3	53
58	A Two-Step Valence Tautomeric Transition in a Dinuclear Cobalt Complex. Inorganic Chemistry, 2012, 51, 3944-3946.	4.0	53
59	DFT Prediction and Experimental Investigation of Valence Tautomerism in Cobalt-Dioxolene Complexes. Inorganic Chemistry, 2019, 58, 4230-4243.	4.0	53
60	Thermodynamics of valence tautomeric interconversion in a tetrachlorodioxolene:cobalt 1:1 adduct. Inorganica Chimica Acta, 2008, 361, 3842-3846.	2.4	52
61	Unravelling the chemical nature of copper cuprizone. Dalton Transactions, 2007, , 2112.	3.3	51
62	Magnetic Interactions and Magnetic Anisotropy in Exchange Coupled 4fâ€“3d Systems: A Case Study of a Heterodinuclear Ce³⁺â€“Fe³⁺ Cyanideâ€Bridged Complex. Chemistry - A European Journal, 2009, 15, 1377-1388.	3.3	51
63	New Singleâ€Molecule Magnets by Siteâ€Specific Substitution: Incorporation of â€œAlligator Clipsâ€•into Fe₄ Complexes. European Journal of Inorganic Chemistry, 2007, 2007, 4145-4152.	2.0	50
64	Magnetic Anisotropy Trends along a Full 4f-Series: The fⁿ⁺⁷ Effect. Journal of the American Chemical Society, 2021, 143, 8108-8115.	13.7	50
65	A 2D Coordination Polymer with Canted Ferromagnetism Constructed from Ferromagnetic [Ni^{II}Co^{II}] Nodes. Inorganic Chemistry, 2008, 47, 6590-6592.	4.0	49
66	Natural Fe-oxide and -oxyhydroxide nanoparticles: an EPR and SQUID investigation. Mineralogy and Petrology, 2005, 85, 19-32.	1.1	48
67	Spin noise fluctuations from paramagnetic molecular adsorbates on surfaces. Journal of Applied Physics, 2007, 101, 053916.	2.5	48
68	Chromium speciation methods and infrared spectroscopy for studying the chemical reactivity of lead chromate-based pigments in oil medium. Microchemical Journal, 2016, 124, 272-282.	4.5	48
69	Tuning the Magnetic Properties of the High-Spin Molecular Cluster Fe8. ChemPhysChem, 2001, 2, 523-531.	2.1	47
70	Synthesis of a New Polydentate Ligand Obtained by Coupling 2,6-Bis(imino)pyridine and (Imino)pyridine Moieties and Its Use in Ethylene Oligomerization in Conjunction with Iron(II) and Cobalt(II) Bis-halides. Organometallics, 2007, 26, 5066-5078.	2.3	47
71	Site-Specific Anchoring of Tetrairon(III) Single Molecule Magnets on Functionalized Si(100) Surfaces. Chemistry of Materials, 2008, 20, 2405-2411.	6.7	47
72	Spin Structure of Surface-Supported Single-Molecule Magnets from Isomorphous Replacement and X-ray Magnetic Circular Dichroism. Inorganic Chemistry, 2011, 50, 2911-2917.	4.0	47

#	Article	IF	Citations
73	Thermal and optical control of electronic states in a single layer of switchable paramagnetic molecules. Chemical Science, 2015, 6, 2268-2274.	7.4	46
74	Magnetic Bistability of Isolated Giantâ€Spin Centers in a Diamagnetic Crystalline Matrix. Chemistry - A European Journal, 2012, 18, 3390-3398.	3.3	44
75	Slow Relaxation of Magnetization in an Isostructural Series of Zincâ€“Lanthanide Complexes: An Integrated EPR and AC Susceptibility Study. Chemistry - A European Journal, 2016, 22, 12849-12858.	3.3	42
76	Coherent coupling between Vanadyl Phthalocyanine spin ensemble and microwave photons: towards integration of molecular spin qubits into quantum circuits. Scientific Reports, 2017, 7, 13096.	3.3	42
77	Slow Magnetic Relaxation in Lanthanoid Crown Ether Complexes: Interplay of Raman and Anomalous Phonon Bottleneck Processes. Chemistry - A European Journal, 2018, 24, 14768-14785.	3.3	42
78	Control of the Microarchitecture of a Double Helix â^' Electrochemical Synthesis and Characterisation of a Novel Dinickel(II) Helicate with Different Groove Sizes. European Journal of Inorganic Chemistry, 2001, 2001, 1863-1868.	2.0	41
79	Nickel Complexes with N2O Donor Ligands: Syntheses, Structures, Catalysis and Magnetic Studies. European Journal of Inorganic Chemistry, 2007, 2007, 5033-5044.	2.0	41
80	Shaping and Enforcing Coordination Spheres: The Implications ofC3 andC1 Chirality in the Coordination Chemistry of 1,1,1-Tris(oxazolinyl)ethane (â€œTrisoxâ€). Chemistry - A European Journal, 2007, 13, 3058-3075.	3.3	40
81	High-Spin Metal Complexes Containing a Ferromagnetically Coupled Tris(semiquinone) Ligand. Inorganic Chemistry, 2002, 41, 1086-1092.	4.0	39
82	Exploring the Organometallic Route to Molecular Spin Qubits: Theâ€‰[CpTi(cot)] Case. Angewandte Chemie - International Edition, 2021, 60, 2588-2593.	13.8	38
83	Novel polynuclear CuII/CoII complexes constructed from one and two Cu2Co triangles with antiferromagnetic exchange coupling. Dalton Transactions RSC, 2002, , 4253-4259.	2.3	37
84	A missing high-spin molecule in the family of cyanido-bridged heptanuclear heterometal complexes, [(LCuII)6FeIII(CN)6]3+, and its CoIII and CrIII analogues, accompanied in the crystal by a novel octameric water cluster. Dalton Transactions, 2010, 39, 4838.	3.3	37
85	Magnetic blocking in extended metal atom chains: a pentachromium(<scp>ii</scp>) complex behaving as a single-molecule magnet. Chemical Communications, 2014, 50, 15191-15194.	4.1	37
86	Ligand design modulates photoinduced properties of cobalt-dioxolene valence tautomers. Chemical Physics Letters, 2006, 428, 400-404.	2.6	36
87	Nanoscale Assembly of Paramagnetic Organic Radicals on Au(111) Single Crystals. Chemistry - A European Journal, 2013, 19, 3445-3450.	3.3	36
88	Probing Vibrational Symmetry Effects and Nuclear Spin Economy Principles in Molecular Spin Qubits. Inorganic Chemistry, 2021, 60, 140-151.	4.0	35
89	Non-Covalent Aggregation of Discrete Metallo-Supramolecular Helicates into Higher Assemblies by Aromatic Pathways: Structural and Chemical Studies of New Aniline-Based Neutral Metal(II) Dihelicates. European Journal of Inorganic Chemistry, 2005, 2005, 3479-3490.	2.0	34
90	Unprecedented optically induced long-lived intramolecular electron transfer in cobaltâ€“dioxolene complexes. Chemical Communications, 2007, , 2160-2162.	4.1	34

#	Article	IF	Citations
91	Bonding Coordination Requirements Induce Antiferromagnetic Coupling betweenm-Phenylene Bridgedo-Iminosemiquinonato Diradicals. Inorganic Chemistry, 2003, 42, 1701-1706.	4.0	33
92	Optically induced valence tautomeric interconversion in cobalt dioxolene complexes. Journal of the Brazilian Chemical Society, 2006, 17, 1522-1533.	0.6	33
93	Electronic Structure and Magnetic Anisotropy in Lanthanoid Single-Ion Magnets with C₃ Symmetry: The Ln(trenovan) Series. Inorganic Chemistry, 2017, 56, 4728-4738.	4.0	33
94	Disorder effects in Mn12â€“acetate at 83â€…K. Acta Crystallographica Section C: Crystal Structure Communications, 2002, 58, m371-m373.	0.4	32
95	Tetrahedral cobalt(ii) complexes stabilized by the aminodiphosphine PNP ligand [PNP = CH3CH2CH2N(CH2CH2PPh2)2]. Dalton Transactions, 2003, , 3233.	3.3	32
96	Determination of the relevant magnetic interactions in low-dimensional molecular materials: the fundamental role of single crystal high frequency EPR. Dalton Transactions, 2011, 40, 10843.	3.3	32
97	Valence Tautomerism in One-Dimensional Coordination Polymers. Inorganic Chemistry, 2016, 55, 4141-4151.	4.0	32
98	Mono- and dinuclear Fe(III) complexes with the N2O2 donor 5-chlorosalicylideneimine ligands; synthesis, X-ray structural characterization and magnetic properties. Inorganica Chimica Acta, 2011, 366, 191-197.	2.4	31
99	Grafting Single Molecule Magnets on Gold Nanoparticles. Small, 2014, 10, 323-329.	10.0	31
100	The influence of ligand field effects on the magnetic exchange of high-spin Co(ii)-semiquinonate complexes. Dalton Transactions, 2006, , 722-729.	3.3	30
101	Valence tautomerism interconversion triggers transition to stable charge distribution in solid polymeric cobaltâ€“polyoxolene complexes. Dalton Transactions, 2007, , 5253.	3.3	30
102	Synthesis, Structural, and Magnetic Studies on a Redox Family of Tetrametallic Vanadium Clusters:â€‰{V^{IV}₄}, {V^{III}₂V^{IV}₂}, and {V^{III}₄} Butterfly Complexes. Inorganic Chemistry, 2007, 46, 9743-9753.	4.0	30
103	A new approach to the synthesis of heteronuclear propeller-like single molecule magnets. Dalton Transactions, 2013, 42, 4416.	3.3	30
104	Modular Molecules: Siteâ€Selective Metal Substitution, Photoreduction, and Chirality in Polyoxometalate Hybrids. Chemistry - A European Journal, 2014, 20, 14102-14111.	3.3	30
105	Slow magnetisation relaxation in tetraoxolene-bridged rare earth complexes. Dalton Transactions, 2017, 46, 13756-13767.	3.3	30
106	Single-ion anisotropy and exchange coupling in cobalt(<scp>ii</scp>)-radical complexes: insights from magnetic and ab initio studies. Chemical Science, 2019, 10, 8855-8871.	7.4	30
107	Evaluating the magnetic anisotropy in molecular rare earth compounds. Gadolinium derivatives with semiquinone radical and diamagnetic analogues. Chemical Physics Letters, 2003, 371, 694-699.	2.6	29
108	The first specimen of tetranuclear (Fe III , Ln III) clusters assembled by carboxylate ligands: synthesis, structure, MÃ¶ssbauer spectra, and magnetic properties of [Fe 3 EuO 2 (CCl 3 COO) 8 H 2 O(THF) 3] Â· THF. Inorganic Chemistry Communication, 2004, 7, 576-579.	3.9	29

#	Article	IF	Citations
109	Inorganicâ"Organic Hybrids of thep,pâ€˜-Diphenylmethylenediphosphinate, pcp2-. Synthesis, Characterization, and XRPD Structures of [Sn(pcp)] and [Cu(pcp)]. Inorganic Chemistry, 2005, 44, 9416-9423.	4.0	29
110	Copper(II) Complexes with Bridging Diphosphinates â€“ The Effect of the Elongation of the Aliphatic Chain on the Structural Arrangements Around the Metal Centres. European Journal of Inorganic Chemistry, 2008, 2008, 3046-3055.	2.0	29
111	Slow Relaxation of the Magnetization in Non-Linear Optical Active Layered Mixed Metal Oxalate Chains. Inorganic Chemistry, 2010, 49, 10894-10901.	4.0	29
112	Coupling molecular spin centers to microwave planar resonators: towards integration of molecular qubits in quantum circuits. Dalton Transactions, 2016, 45, 16596-16603.	3.3	29
113	The Origin of Magnetic Anisotropy and Single-Molecule Magnet Behavior in Chromium(II)-Based Extended Metal Atom Chains. Inorganic Chemistry, 2020, 59, 1763-1777.	4.0	29
114	Monohelical Complexes of a Novel Asymmetric N4 Schiff Base: Unfamiliar Tetrahedral Environments of Manganese(II) and Iron(II) Helicates. European Journal of Inorganic Chemistry, 2003, 2003, 1128-1135.	2.0	28
115	Addressing individual paramagnetic molecules through ESN-STM. Inorganica Chimica Acta, 2007, 360, 3837-3842.	2.4	28
116	Looking for quantum effects in magnetic nanoparticles using the molecular nanomagnet approach. Physical Review B, 2011, 83, .	3.2	28
117	Switching nuclearity and Co(<scp>ii</scp>) content through stoichiometry adjustment: {Co^{II}₆Co^{III}₃} and {Co^{II}Co₄^{III}} mixed valent complexes and a study of their magnetic properties. Dalton Transactions, 2015, 44, 2390-2400.	3.3	28
118	Controlled coherent dynamics of [VO(TPP)], a prototype molecular nuclear qudit with an electronic ancilla. Chemical Science, 2021, 12, 12046-12055.	7.4	28
119	Multifunctional nanoprobes based on upconverting lanthanide doped CaF₂: towards biocompatible materials for biomedical imaging. Biomaterials Science, 2014, 2, 1158-1171.	5.4	27
120	Hydroxo-Bridged Cubane-Type Tetrairon(II) Clusters Supported by Sterically-Hindered Carboxylate Ligands. Inorganic Chemistry, 2001, 40, 6774-6781.	4.0	26
121	High-frequency EPR: An occasion for revisiting ligand field theory. Applied Magnetic Resonance, 2001, 21, 299-310.	1.2	26
122	Magnetic and optical bistability in tetrairon(iii) single molecule magnets functionalized with azobenzene groups. Dalton Transactions, 2012, 41, 8368.	3.3	26
123	Origin and spectroscopic determination of trigonal anisotropy in a heteronuclear single-molecule magnet. Physical Review B, 2013, 88, .	3.2	26
124	Storage and retrieval of microwave pulses with molecular spin ensembles. Npj Quantum Information, 2020, 6, .	6.7	26
125	Highly Reduced, Polyoxo(alkoxo)vanadium(III/IV) Clusters. Chemistry - A European Journal, 2007, 13, 6329-6338.	3.3	25
126	Synchrotron-based X-ray spectromicroscopy and electron paramagnetic resonance spectroscopy to investigate the redox properties of lead chromate pigments under the effect of visible light. Journal of Analytical Atomic Spectrometry, 2015, 30, 1500-1510.	3.0	25

#	Article	IF	Citations
127	d- or f-Mononuclear and Related Heterodinuclear Complexes With [1+1] Asymmetric Compartmental Macrocycles. European Journal of Inorganic Chemistry, 2004, 2004, 3887-3900.	2.0	24
128	Influence of Ï€â€“Ï€ Stacking Interactions on the Assembly of Layered Copper Phosphonate Coordination Polymers: Combined Powder Diffraction and Electron Paramagnetic Resonance Study. Crystal Growth and Design, 2012, 12, 2327-2335.	3.0	24
129	Synthesis, structure, magnetic and magnetocaloric properties of a series of {CrIII4Ln^{III}} complexes. New Journal of Chemistry, 2016, 40, 3571-3577.	2.8	24
130	Trinuclear copper(II) complexes of bis(acylhydrazone) ligands. Structural analysis and magnetic properties of a sulfato-bridged hexanuclear dimer. Inorganica Chimica Acta, 2006, 359, 2275-2280.	2.4	23
131	High-field/ high-frequency EPR study on stable free radicals formed in sucrose by gamma-irradiation. Free Radical Research, 2006, 40, 553-563.	3.3	23
132	Slow quantum relaxation in a tetrairon(III) single-molecule magnet. Inorganica Chimica Acta, 2008, 361, 3481-3488.	2.4	23
133	Tri-, tetra- and octa-metallic vanadium(III) clusters from new, simple starting materials: interplay of exchange and anisotropy effects. Dalton Transactions, 2009, , 9402.	3.3	23
134	An EPR and SQUID magnetometry study of bornite. Physics and Chemistry of Minerals, 2007, 34, 609-619.	0.8	21
135	Xâ€ray Absorption Spectroscopy as a Probe of Photoâ€and Thermally Induced Valence Tautomeric Transition in a 1:1 Cobaltâ€“Dioxolene Complex. ChemPhysChem, 2009, 10, 2090-2095.	2.1	21
136	Synthesis, crystal structure, magnetic properties and computational study of a series of cyano-bridged MnIII-FeII complexes. CrystEngComm, 2012, 14, 7320.	2.6	21
137	Dinuclear Cu(II) Complexes of Isomeric Bis-(3-acetylacetonate)benzene Ligands: Synthesis, Structure, and Magnetic Properties. Inorganic Chemistry, 2012, 51, 5409-5416.	4.0	21
138	Exploring the Organometallic Route to Molecular Spin Qubits: Theâ€‰[CpTi(cot)] Case. Angewandte Chemie, 2021, 133, 2620-2625.	2.0	21
139	High-field/high-frequency EPR studies of spin clusters with integer spin: the multi-frequency approach. Magnetic Resonance in Chemistry, 2005, 43, S183-S191.	1.9	20
140	Endogenous Arene Hydroxylation Promoted by Copper(I) Cluster Helicates. Chemistry - A European Journal, 2010, 16, 14175-14180.	3.3	20
141	A slow relaxing species for molecular spin devices: EPR characterization of static and dynamic magnetic properties of a nitronyl nitroxide radical. Journal of Materials Chemistry, 2012, 22, 22272.	6.7	20
142	Sheets of Tetranuclear Ni(II) [2 Ã— 2] Square Grids Structure with Infinite Orthogonal Two-Dimensional Waterâ€“Chlorine Chains. Crystal Growth and Design, 2013, 13, 4172-4176.	3.0	20
143	Adding Remnant Magnetization and Anisotropic Exchange to Propellerâ€like Singleâ€Molecule Magnets through Chemical Design. Chemistry - A European Journal, 2014, 20, 13681-13691.	3.3	20
144	Magnetic Study of a Pentanuclear {Co2IIICo3II} Cluster with a Bent {CoII3} Motif. European Journal of Inorganic Chemistry, 2014, 2014, 2561-2568.	2.0	20

#	Article	IF	Citations
145	Magnetic Bistability in Lanthanide-Based Molecular Systems: The Role of Anisotropy and Exchange Interactions. Fundamental Theories of Physics, 2016, , 91-139.	0.3	20
146	Exploring the potential of highly charged Ru(II)- and heteronuclear Ru(II)/Cu(II)-polypyridyl complexes as antimicrobial agents. Journal of Inorganic Biochemistry, 2021, 220, 111467.	3.5	20
147	Ferromagnetic interactions in Ru(iii)â€“nitronyl nitroxide radical complex: a potential 2p4d building block for molecular magnets. Dalton Transactions, 2007, , 2689-2695.	3.3	19
148	Synthesis, characterization, and magnetic properties of new homotrinuclear bis(oxamato) copper(II) complexes with an asymmetric central N,Nâ€²-bridge. Inorganica Chimica Acta, 2007, 360, 3777-3784.	2.4	19
149	A New Cobalt(II)â€Layered Network Based on Phenyl(carboxymethyl) Phosphinate. European Journal of Inorganic Chemistry, 2010, 2010, 3179-3184.	2.0	19
150	Metal Dilution Effects on Entropy and Light-Induced Valence Tautomeric Interconversion in a 1:1 Cobaltâ^'Dioxolene Complex. Inorganic Chemistry, 2010, 49, 3271-3277.	4.0	19
151	Single crystal EPR study at 95 GHz of a large Fe based molecular nanomagnet: toward the structuring of magnetic nanoparticle properties. Dalton Transactions, 2011, 40, 8145.	3.3	19
152	One Dimensional Chain and Ribbon Cobaltâ€“Dioxolene Coordination Polymers: A New Valence Tautomeric Compound. Crystal Growth and Design, 2017, 17, 3156-3162.	3.0	19
153	Relaxation dynamics of a photoinduced di-cobalt-tetraoxolene valence tautomer. Inorganica Chimica Acta, 2007, 360, 3825-3828.	2.4	18
154	Multifrequency EMR and Magnetic Characterization of Synthetic Powdered Hematite. Journal of Physical Chemistry C, 2008, 112, 9988-9995.	3.1	18
155	Diamondoid Structure in a Metalâ€“Organic Framework of Fe₄ Singleâ€Molecule Magnets. Chemistry - A European Journal, 2016, 22, 13705-13714.	3.3	18
156	A high-nuclearity, beyond â€œfully reducedâ€•polyoxo(alkoxo)vanadium(iii/iv) cage. Chemical Communications, 2006, , 2560-2562.	4.1	17
157	Disclosing the Binding Medium Effects and the Pigment Solubility in the (Photo)reduction Process of Chrome Yellows (PbCrO₄/PbCr_{1â€“x}S_xO₄). ACS Omega, 2019, 4, 6607-6619.	3.5	17
158	Dielectric Effects in FeO_x-Coated Au Nanoparticles Boost the Magnetoplasmonic Response: Implications for Active Plasmonic Devices. ACS Applied Nano Materials, 2021, 4, 1057-1066.	5.0	17
159	Patterned monolayers of nitronyl nitroxide radicals. Inorganica Chimica Acta, 2008, 361, 3525-3528.	2.4	16
160	Synthesis, characterization, and magnetic properties of new binuclear CuIICuII bis(oxamato) complexes. Inorganica Chimica Acta, 2009, 362, 563-569.	2.4	16
161	The coordination preferences of metal centres modulate superexchange coupling interactions in a metallo-supramolecular helical assembly. Chemical Communications, 2010, 46, 4797.	4.1	16
162	Steric control on the redox chemistry of (Î·5-C9H7)2YbII(THF)2 by 6-aryl substituted iminopyridines. Dalton Transactions, 2011, 40, 10568.	3.3	16

#	Article	IF	Citations
163	Redox-Active Sites in Auricularia auricula-judae Dye-Decolorizing Peroxidase and Several Directed Variants: A Multifrequency EPR Study. Journal of Physical Chemistry B, 2015, 119, 13583-13592.	2.6	16
164	How and why the characterization of magnetic materials can give directions in the methodological development in high fieldâ€“high frequency EPR. Research on Chemical Intermediates, 2002, 28, 215-229.	2.7	15
165	HF-EPR to monitor electron transfer in mixed valence dioxolene metal complexes. Chemical Physics Letters, 2003, 368, 162-167.	2.6	15
166	Polyoxolenes may provide a tool for designing paramagnetic molecules with predetermined spin topologies. Comptes Rendus Chimie, 2003, 6, 663-676.	0.5	15
167	Introduction of ester and amido functions in tetrairon(iii) single-molecule magnets: synthesis and physical characterization. Dalton Transactions, 2010, 39, 5851.	3.3	15
168	Core-Hole Screening, Electronic Structure, and Paramagnetic Character in Thin Films of Organic Radicals Deposited on SiO₂/Si(111). Journal of Physical Chemistry C, 2014, 118, 8044-8049.	3.1	15
169	Tm(<scp>iii</scp>) complexes undergoing slow relaxation of magnetization: exchange coupling and aging effects. Dalton Transactions, 2017, 46, 3848-3856.	3.3	15
170	New spectroscopic and diffraction data to solve the vanadium-doped zircon pigment conundrum. Journal of the European Ceramic Society, 2018, 38, 5234-5245.	5.7	15
171	Radiofrequency to Microwave Coherent Manipulation of an Organometallic Electronic Spin Qubit Coupled to a Nuclear Qudit. Inorganic Chemistry, 2021, 60, 11273-11286.	4.0	15
172	Isotopic effect on the quantum tunneling of the magnetization of molecular nanomagnets. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1954-1960.	2.3	14
173	pH-Triggered intramolecular electron transfer in asymmetric bis-dioxolene adducts. Dalton Transactions, 2003, , 3382.	3.3	14
174	A spectroscopic characterization of a phenolic natural mediator in the laccase biocatalytic reaction. Journal of Molecular Catalysis B: Enzymatic, 2013, 97, 203-208.	1.8	14
175	Nitronyl nitroxide radicals at the interface: a hybrid architecture for spintronics. Rendiconti Lincei, 2018, 29, 623-630.	2.2	14
176	Different Antioxidant Efficacy of Two MnII-Containing Superoxide Anion Scavengers on Hypoxia/Reoxygenation-Exposed Cardiac Muscle Cells. Scientific Reports, 2019, 9, 10320.	3.3	14
177	Hydrothermal synthesis and structural characterization of a new 2D-layered vanadium diphosphinate: [VO(O2(C6H5)PCH2P(C6H5)O2)]. Inorganic Chemistry Communication, 2006, 9, 591-594.	3.9	13
178	Counter cation-controlled air oxidation of manganese derivatives of tetrachlorocatechol. Inorganic Chemistry Communication, 2000, 3, 76-79.	3.9	12
179	Addressing single molecules of a thin magnetic film. Inorganica Chimica Acta, 2008, 361, 4089-4093.	2.4	12
180	Synthesis, structural, magnetic and high frequency EPR studies on a hexametallic Fe(III) complex with a highly rhombic S=5 ground state. Inorganica Chimica Acta, 2008, 361, 3663-3668.	2.4	12

#	Article	IF	Citations
181	Polynuclear nickel(II) complexes with salicylaldimine derivative ligands. Inorganica Chimica Acta, 2013, 394, 741-746.	2.4	12
182	Multiple Magnetization Reversal Channels Observed in a 3d-4f Single Molecule Magnet. Magnetochemistry, 2016, 2, 27.	2.4	12
183	Aggregation of heptanuclear [MII7] (Mâ€¯=â€¯Co, Ni, Zn) clusters by a Schiff-base ligand derived from o-vanillin: Synthesis, crystal structures and magnetic properties. Polyhedron, 2019, 171, 269-278.	2.2	12
184	Chiral mononuclear lanthanide complexes derived from chiral Schiff bases: Structural and magnetic studies. Polyhedron, 2019, 170, 264-270.	2.2	12
185	Magnetic properties and spin dynamics in the single-molecule paramagnetsCu6FeandCu6Co. Physical Review B, 2009, 80, .	3.2	11
186	Stabilization of an Enantiopure Subâ€monolayer of Helicene Radical Cations on a Au(111) Surface through Noncovalent Interactions. Angewandte Chemie - International Edition, 2021, 60, 15276-15280.	13.8	11
187	Synthesis and Characterisation of a Novel Copper(II) Azamacrocycle-Phosphonate 3D Polymeric Network. European Journal of Inorganic Chemistry, 2005, 2005, 2027-2031.	2.0	10
188	Syntheses, Characterization, and Magnetoâ€“Structural Analyses in Î¼_{1,3}â€Acetatoâ€Bridged Tetracopper(II) and Î¼_{1,3}â€•and Î¼_{1,1,3}â€Acetatoâ€Bridged Pentanickel(II) Clusters. European Journal of Inorganic Chemistry, 2014, 2014, 2753-2765.	2.0	10
189	Cobalt(II) Ions Connecting [Co^{II}₄] Helicates into a 2-D Coordination Polymer Showing Slow Relaxation of the Magnetization. Inorganic Chemistry, 2017, 56, 11668-11675.	4.0	10
190	Dinuclear ruthenium bipyridine complexes with a bis(iminodioxolene)-meta-phenylene ligand: magnetic coupling and mixed valence character of the semiquinonato species. Dalton Transactions, 2005, , 3868.	3.3	9
191	Low-Valent Low-Coordinated Manganese(I) Ion Dimer:â€‰ A Temperature Dependent W-Band EPR Study. Inorganic Chemistry, 2006, 45, 395-400.	4.0	9
192	Structural and magnetic properties of semiquinonate based Al(<scp>iii</scp>) and Ga(<scp>iii</scp>) complexes. Dalton Transactions, 2017, 46, 1439-1448.	3.3	9
193	X-ray structure and magnetochemical study on a Co(II) complex of 2-acetyl-1,3-indandione. Journal of Coordination Chemistry, 2008, 61, 3879-3886.	2.2	8
194	Heterometallic 3dâ€“4f coordination polymers: Synthesis, characterization and magnetic properties of 1D zigzag chains containing samarium and terbium. Solid State Sciences, 2009, 11, 766-771.	3.2	8
195	Syntheses, crystal structures and magnetic properties of three new binuclear Ni(II) complexes derived from tripodal tetradentate (N4) ligands. Polyhedron, 2009, 28, 162-166.	2.2	8
196	A dimanganese(II) complex with bridging chlorides: Synthesis, electrochemistry, magnetic behavior, structure and bonding. Inorganica Chimica Acta, 2011, 365, 277-281.	2.4	8
197	MÃ¶ssbauer study of bornite and chemical bonding in Fe-bearing sulphides. Physics and Chemistry of Minerals, 2018, 45, 227-235.	0.8	8
198	Chemisorption of nitronylâ€“nitroxide radicals on gold surface: an assessment of morphology, exchange interaction and decoherence time. Nanoscale, 2021, 13, 7613-7621.	5.6	8

#	Article	IF	Citations
199	Interfacial oxidation of decamethylferrocene by hexacyanoferrate: synthesis and characterization of [FeIII(Î·-C5Me5)2]3[FeIII(CN)6]Â·2CH2Cl2Â·6H2O. Polyhedron, 2001, 20, 2467-2472.	2.2	7
200	Crystal field and exchange effects in rare earth semiquinone complexes. Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry, 2001, 4, 135-141.	0.1	7
201	Rational enhancement of the coordination capability of Ru(III)(salen)-nitronyl nitroxide building block: A step towards 2pâ€“3dâ€“4d magnetic edifices. Inorganica Chimica Acta, 2008, 361, 3427-3431.	2.4	7
202	Low-valent vanadium catecholate clusters. Chemical Science, 2010, 1, 221.	7.4	7
203	Synthesis, spectral characterization and X-ray crystal structure of Fe(III) and Co(III) complexes with an acyclic Schiff base ligand. Inorganica Chimica Acta, 2013, 406, 171-175.	2.4	7
204	Steric control in the metalâ€“ligand electron transfer of iminopyridineâ€“ytterbocene complexes. Dalton Transactions, 2018, 47, 1566-1576.	3.3	7
205	Single-Ion Anisotropy and Intramolecular Interactions in Ce^{III} and Nd^{III} Dimers. Inorganic Chemistry, 2021, 60, 8692-8703.	4.0	7
206	Quantum tunneling of magnetization in Mn12Bz clusters: Evidences of spin parity effect. Journal of Applied Physics, 2000, 87, 6004-6006.	2.5	6
207	A 3-D coordination network constructed from an angular bis-oxamato tecton and calcium ions. CrystEngComm, 2013, 15, 8422.	2.6	6
208	Radicalâ€Functionalised Gel: A Buildingâ€Block Strategy for Magnetochiral Assembly. ChemPlusChem, 2013, 78, 149-156.	2.8	6
209	Versatile coordination behaviour of the chloro-tetrazine-picolylamine ligand: mixed-valence binuclear Cu(<scp>i</scp>)/Cu(<scp>ii</scp>) complexes. Dalton Transactions, 2019, 48, 11966-11977.	3.3	6
210	New sulfur rich lanthanide based materials: synthesis and magnetic properties. Journal of Alloys and Compounds, 2002, 344, 114-119.	5.5	5
211	Tuneable energy barriers in tetrairon(III) single-molecule magnets. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E749-E751.	2.3	5
212	Modulation of Slow Magnetic Relaxation in Gd(III)â€Tetrahalosemiquinonate Complexes. Chemistry - an Asian Journal, 2022, 17, .	3.3	5
213	From multidomain particles to organic radicals: The multifaceted magnetic properties of tobacco and cigarette ash. Inorganica Chimica Acta, 2008, 361, 3882-3886.	2.4	4
214	A novel one-dimensional coordination polymer bearing tetrakis-carboxylato Co(II)2 units interacting via P-donors based on 1-carboxylic-1â€²-(diphenylphosphino)ferrocene. Inorganica Chimica Acta, 2012, 392, 404-409.	2.4	3
215	Magnetic Field Effect on the Handedness of Electrodeposited Heusler Alloy. Applied Sciences (Switzerland), 2022, 12, 5640.	2.5	3
216	Antiferromagnetic exchange in meta-phenylene bridged bis(tris-o-iminosemiquinonato)metal complexes. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1083-1084.	2.3	2

#	Article	IF	Citations
217	NMR and Î¼+SR detection of unconventional spin dynamics in Er(trensal) and Dy(trensal) molecular magnets. Physical Review B, 2019, 100, .	3.2	2
218	Structural Diversity Ranging from Oligonuclear Complexes to 1â€Ð and 2â€Ð Coordination Polymers Generated by Tetrasubstituted Adamantane and Spirobifluorene Derivatives. European Journal of Inorganic Chemistry, 2019, 2019, 5025-5038.	2.0	2
219	The Intricate Determination of Magnetic Anisotropy in Quasi-octahedral Vanadium(III): An HF-EPR and Magnetic Study. Applied Magnetic Resonance, 2020, 51, 1233-1250.	1.2	1
220	Stabilization of an Enantiopure Subâ€monolayer of Helicene Radical Cations on a Au(111) Surface through Noncovalent Interactions. Angewandte Chemie, 2021, 133, 15404-15408.	2.0	1
221	Antiferromagnetic Coupling in a Gadolinium(III) Semiquinonato Complex. Angewandte Chemie - International Edition, 2000, 39, 246-248.	13.8	1
222	Multifunctional â€œDy(hfa)3â€¢glymeâ€•adducts: Synthesis and magnetic/luminescent behaviour. Inorganica Chimica Acta, 2022, 535, 120851.	2.4	1
223	Polyoxolenes May Provide a Tool for Designing Paramagnetic Molecules with Predetermined Spin Topologies. ChemInform, 2004, 35, no.	0.0	0
224	Quinonoid Metal Complexes: Toward Molecular Switches. ChemInform, 2005, 36, no.	0.0	0
225	On the way to the magnetoâ€optical characterization of trinuclear Cu^{II}Cu^{II}Cu^{II}bis(oxamato) complexes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2008, 634, 2063-2063.	1.2	0
226	Exchange interactions in trinuclear multispin complexes [Fe 2 III MIIO(p-NitPhCOO)6]â™MeCN (M = Co, Ni,) Tj ETQq0 0 0 rgBT /Overloc 243-249.	0.8	0