Andrew Ozarowski

List of Publications by Year
in descending order

99 papers	3,171 citations	117625 34 h-index	175258 52 g-index
100 all docs	100 docs citations	100 times ranked	3751 citing authors

#	Article	IF	Citations
1	Multi-frequency, high-field EPR as a powerful tool to accurately determine zero-field splitting in high-spin transition metal coordination complexes. Coordination Chemistry Reviews, 2006, 250, 2308-2324.	18.8	326
2	Definitive Spectroscopic Determination of Zero-Field Splitting in High-Spin Cobalt(II). Journal of the American Chemical Society, 2004, 126, 2148-2155.	13.7	107
3	Tunable-frequency high-field electron paramagnetic resonance. Journal of Magnetic Resonance, 2006, 178, 174-183.	2.1	101
4	Across the tree of life, radiation resistance is governed by antioxidant Mn ²⁺ , gauged by paramagnetic resonance. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9253-E9260.	7.1	94
5	Copper(II) Carboxylate Dimers Prepared from Ligands Designed to Form a Robust ÏÂ·Â·Â·Ï Stacking Synthon: Supramolecular Structures and Molecular Properties. Inorganic Chemistry, 2012, 51, 1068-1083.	4.0	89
6	High-frequency and high-field electron paramagnetic resonance (HFEPR): a new spectroscopic tool for bioinorganic chemistry. Journal of Biological Inorganic Chemistry, 2014, 19, 297-318.	2.6	74
7	The Zero-Field-Splitting Parameter D in Binuclear Copper(II) Carboxylates Is Negative. Inorganic Chemistry, 2008, 47, 9760-9762.	4.0	73
8	Dinuclear Complexes Containing Linear Mâ€“Fâ€“M [M = Mn(II), Fe(II), Co(II), Ni(II), Cu(II), Zn(II), Cd(II)] Bridges: Trends in Structures, Antiferromagnetic Superexchange Interactions, and Spectroscopic Properties. Inorganic Chemistry, 2012, 51, 11820-11836.	4.0	71
9	Cobalt(II) â€œScorpionateâ€•Complexes as Models for Cobalt-Substituted Zinc Enzymes: Electronic Structure Investigation by High-Frequency and -Field Electron Paramagnetic Resonance Spectroscopy. Journal of the American Chemical Society, 2010, 132, 5241-5253.	13.7	66
10	High-frequency and -field electron paramagnetic resonance of vanadium(IV, III, and II) complexes. Coordination Chemistry Reviews, 2015, 301-302, 123-133.	18.8	65
11	Pseudooctahedral Complexes of Vanadium(III):Â Electronic Structure Investigation by Magnetic and Electronic Spectroscopy. Inorganic Chemistry, 2004, 43, 5645-5658.	4.0	64
12	High-Frequency, High-Field EPR; Magnetic Susceptibility; and X-ray Studies on a Ferromagnetic Heterometallic Complex of Diethanolamine (H2L), [Cu4(NH3)4(HL)4][CdBr4]Br2Â·3dmfÂ·H2O. Inorganic Chemistry, 2005, 44, 206-216.	4.0	61
13	High-Field EPR and Magnetic Susceptibility Studies on Binuclear and Tetranuclear Copper Trifluoroacetate Complexes. X-ray Structure Determination of Three Tetranuclear Quinoline Adducts of Copper(II) Trifluoroacetate. Journal of the American Chemical Society, 2009, 131, 10279-10292.	13.7	60
14	Definitive Determination of Zero-Field Splitting and Exchange Interactions in a Ni(II) Dimer:â€‰ Investigation of [Ni₂(en)₄Cl₂]Cl₂Using Magnetization and Tunable-Frequency High-Field Electron Paramagnetic Resonance. Journal of the American Chemical Society, 2007, 129, 10306-10307.	13.7	58
15	Family of V(III)-Tristhiolato Complexes Relevant to Functional Models of Vanadium Nitrogenase: Synthesis and Electronic Structure Investigations by Means of High-Frequency and -Field Electron Paramagnetic Resonance Coupled to Quantum Chemical Computations.. Inorganic Chemistry, 2010, 49, 977-988.	4.0	57
16	Dzyaloshinsky-Moriya interaction in vesignieite: A route to freezing in a quantum kagome antiferromagnet. Physical Review B, 2013, 88, .	3.2	57
17	Metalâ€“Metal Interactions in Trinuclear Copper(II) Complexes [Cu₃(RCOO)₄(H₂TEA)₂] and Binuclear [Cu₂(RCOO)₂(H₂TEA)₂]. Syntheses and Combined Structural, Magnetic, High-Field Electron Paramagnetic Resonance, and Theoretical Studies. Inorganic Chemistry, 2015, 54, 11916-11934.	4.0	56
18	Low-Spin Hexacoordinate Mn(III): Synthesis and Spectroscopic Investigation of Homoleptic Tris(pyrazolyl)borate and Tris(carbene)borate Complexes. Inorganic Chemistry, 2013, 52, 144-159.	4.0	55

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19	Field-Assisted Slow Magnetic Relaxation in a Six-Coordinate Co(II)â€“Co(III) Complex with Large Negative Anisotropy. Inorganic Chemistry, 2017, 56, 6999-7009.	4.0	54
20	A Cuâ€“Znâ€“Cuâ€“Zn heterometallomacrocycle shows significant antiferromagnetic coupling between paramagnetic centres mediated by diamagnetic metal. Chemical Communications, 2005, , 4976.	4.1	52
21	Hydrogen Bonding of Tryptophan Radicals Revealed by EPR at 700 GHz. Journal of the American Chemical Society, 2011, 133, 18098-18101.	13.7	52
22	Synthesis, Crystal Structure, and High-Precision High-Frequency and -Field Electron Paramagnetic Resonance Investigation of a Manganese(III) Complex:Â [Mn(dbm)2(py)2](ClO4). Inorganic Chemistry, 2005, 44, 187-196.	4.0	48
23	Halide and Hydroxide Linearly Bridged Bimetallic Copper(II) Complexes: Trends in Strong Antiferromagnetic Superexchange Interactions. Inorganic Chemistry, 2012, 51, 7966-7968.	4.0	44
24	Novel Heterometallic Schiff Base Complexes Featuring Unusual Tetranuclear {Co^{III}₂Fe^{III}₂(Î¼-O)₆} and Octanuclear {Co^{III}₄Fe^{III}₄(Î¼-O)₁₄} Cores: Direct Synthesis, Crystal Structures, and Magnetic Properties. Inorganic Chemistry, 2012, 51, 386-396.	4.0	43
25	Synthesis and Characterization of a Stable High-Valent Cobalt Carbene Complex. Journal of the American Chemical Society, 2016, 138, 5531-5534.	13.7	43
26	Anisotropic exchange interactions in the copper(II) and vanadium(IV) dimers [(L')Cu(.mu.-OH)2Cu(L')](ClO4)2 and [(L)VO(.mu.-OH)2VO(L)]Br2 with 1,4,7-triazacyclononane (L) and its N,N',N''-trimethyl derivative (L'): a single-crystal EPR study. Inorganic Chemistry, 1986, 25, 1704-1708.	4.0	42
27	Cr^{III}â”Cr^{III} Interactions in Two Alkoxo-Bridged Heterometallic Zn₂Cr₂ Complexes Self-Assembled from Zinc Oxide, Reineckeâ€™s Salt, and Diethanolamine. Inorganic Chemistry, 2010, 49, 5460-5471.	4.0	42
28	Spectroscopic and Computational Studies of Spin States of Iron(IV) Nitrido and Imido Complexes. Inorganic Chemistry, 2017, 56, 4751-4768.	4.0	41
29	Slow Magnetic Relaxation in Cobalt(II) Field-Induced Single-Ion Magnets with Positive Large Anisotropy. Inorganic Chemistry, 2018, 57, 12740-12755.	4.0	41
30	High-frequency/high-field EPR spectroscopy of the high-spin ferrous ion in hexaaqua complexes. Magnetic Resonance in Chemistry, 2005, 43, S130-S139.	1.9	40
31	High-Frequency and -Field EPR Investigation of a Manganese(III) N-Confused Porphyrin Complex, [Mn(NCTPP)(py)2]. Inorganic Chemistry, 2005, 44, 4451-4453.	4.0	39
32	Synthesis and spectroscopic investigations of four-coordinate nickel complexes supported by a strongly donating scorpionate ligand. Inorganica Chimica Acta, 2009, 362, 4449-4460.	2.4	39
33	Structure of the Biliverdin Radical Intermediate in Phycocyanobilin:Ferredoxin Oxidoreductase Identified by High-Field EPR and DFT. Journal of the American Chemical Society, 2009, 131, 1986-1995.	13.7	38
34	High-Frequency and -Field EPR of a Pseudo-octahedral Complex of High-Spin Fe(II):Â Bis(2,2â€˜-bi-2-thiazoline)bis(isothiocyanato)iron(II). Journal of the American Chemical Society, 2004, 126, 6574-6575.	13.7	36
35	Multifrequency EPR Studies on the Mn(II) Centers of Oxalate Decarboxylase. Journal of Physical Chemistry B, 2007, 111, 5043-5046.	2.6	34
36	Atomic hydrogen as high-precision field standard for high-field EPR. Journal of Magnetic Resonance, 2010, 207, 158-163.	2.1	34

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37	Electronic Structure and Reactivity of a Well-Defined Mononuclear Complex of Ti(II). Inorganic Chemistry, 2015, 54, 10380-10397.	4.0	34
38	Role of Antisymmetric Exchange in Selecting Magnetic Chirality in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ba</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi>Nb</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>14</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2011, 107, 257203.	7.8	32
39	Symmetric and antisymmetric exchange anisotropies in quasi-one-dimensional CuSe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>5</mml:mn></mml:msub></mml:math> as revealed by ESR. Physical Review B, 2011, 84, .	3.2	31
40	High-frequency and -field electron paramagnetic resonance of transition metal ion (d block) coordination complexes. Electron Paramagnetic Resonance, 2012, , 209-263.	0.2	31
41	Magnetic, high-field EPR studies and catalytic activity of Schiff base tetranuclear CuII2FeIII2 complexes obtained by direct synthesis. Dalton Transactions, 2013, 42, 16909.	3.3	30
42	Influence of nitrogen donor ligands on the coordination modes of copper(<scp>ii</scp>) 2-nitrobenzoate complexes: structures, DFT calculations and magnetic properties. New Journal of Chemistry, 2014, 38, 437-447.	2.8	30
43	Syntheses, Structural, Magnetic, and Electron Paramagnetic Resonance Studies of Monobridged Cyanide and Azide Dinuclear Copper(II) Complexes: Antiferromagnetic Superexchange Interactions. Inorganic Chemistry, 2015, 54, 1487-1500.	4.0	28
44	Determination by High-Frequency and -Field EPR of Zero-Field Splitting in Iron(IV) Oxo Complexes: Implications for Intermediates in Nonheme Iron Enzymes. Inorganic Chemistry, 2008, 47, 3483-3485.	4.0	27
45	Formation and Reactivity of the Terminal Vanadium Nitride Functionality. European Journal of Inorganic Chemistry, 2013, 2013, 3916-3929.	2.0	26
46	The Ising triangular-lattice antiferromagnet neodymium heptatantalate as a quantum spin liquid candidate. Nature Materials, 2022, 21, 416-422.	27.5	26
47	Vanadocene de Novo: Spectroscopic and Computational Analysis of Bis(Î·⁵-cyclopentadienyl)vanadium(II). Organometallics, 2012, 31, 8265-8274.	2.3	25
48	Structure and Magnetic Behavior of Cu^{II} MOFs Supported by 1,2,4â€Triazolylâ€Bifunctionalized Adamantane Scaffold. European Journal of Inorganic Chemistry, 2012, 2012, 5802-5813.	2.0	25
49	Dinuclear Metallacycles with Single Mâ€“O(H)â€“M Bridges [M = Fe(II), Co(II), Ni(II), Cu(II)]: Effects of Large Bridging Angles on Structure and Antiferromagnetic Superexchange Interactions. Inorganic Chemistry, 2014, 53, 1975-1988.	4.0	24
50	Advanced Paramagnetic Resonance Studies on Manganese and Iron Corroles with a Formal d⁴ Electron Count. Inorganic Chemistry, 2020, 59, 1075-1090.	4.0	24
51	Slow magnetic relaxation in hexacoordinated cobalt(<scp>ii</scp>) field-induced single-ion magnets. Inorganic Chemistry Frontiers, 2020, 7, 2637-2650.	6.0	24
52	An unprecedented octanuclear copper core with C3i symmetry and a paramagnetic ground state. Chemical Communications, 2014, 50, 3431.	4.1	22
53	Probing the Magnetic Anisotropy of Co(II) Complexes Featuring Redox-Active Ligands. Inorganic Chemistry, 2020, 59, 16178-16193.	4.0	22
54	Dinuclear Metallacycles with Single Mâ€“Xâ€“M Bridges (X = Cl^{â€“}, Br^{â€“}; M = Fe(II),) Tj ETQq0 0 0 rgBT /Ove Chemistry, 2017, 56, 2884-2901.	4.0	20

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55	Catalytic Nitrene Homocoupling by an Iron(II) Bis(alkoxide) Complex: Bulking Up the Alkoxide Enables a Wider Range of Substrates and Provides Insight into the Reaction Mechanism. Inorganic Chemistry, 2018, 57, 9425-9438.	4.0	20
56	High-frequency and -field EPR and FDMRS study of the [Fe(H2O)6]2+ ion in ferrous fluorosilicate. Journal of Magnetic Resonance, 2011, 213, 158-165.	2.1	18
57	Valence tautomerism in a cobalt-verdazyl coordination compound. Chemical Communications, 2020, 56, 4400-4403.	4.1	18
58	Direct Synthesis, Crystal Structure, High-Field EPR, and Magnetic Studies on an Octanuclear Heterometallic Cu(II)/Cd Complex of Triethanolamine. Inorganic Chemistry, 2009, 48, 11092-11097.	4.0	17
59	Introducing Dimensionality to the Archetypical Mn₁₂ Single-Molecule Magnet: a Family of [Mn₁₂]_n Chains. Inorganic Chemistry, 2016, 55, 1367-1369.	4.0	16
60	Experimental and Theoretical Investigation of the Anti-Ferromagnetic Coupling of Cr^{III} Ions through Diamagnetic â^'Oâ€“Nb^Vâ€“Oâ€“ Bridges. Inorganic Chemistry, 2017, 56, 6879-6889.	4.0	16
61	NMR Investigations of Dinuclear, Single-Anion Bridged Copper(II) Metallacycles: Structure and Antiferromagnetic Behavior in Solution. Inorganic Chemistry, 2013, 52, 12741-12748.	4.0	15
62	Copper(II) Complexes with Bulky N-Substituted Diethanolamines: High-Field Electron Paramagnetic Resonance, Magnetic, and Catalytic Studies in Oxidative Cyclohexane Amidation. Inorganic Chemistry, 2018, 57, 12384-12397.	4.0	13
63	Synthesis, spectroscopic, structural and antimicrobial studies of a dimeric complex of copper(II) with trichloroacetic acid and metronidazole. Inorganica Chimica Acta, 2020, 503, 119404.	2.4	13
64	A Mononuclear and High-Spin Tetrahedral Ti^{II} Complex. Inorganic Chemistry, 2020, 59, 17834-17850.	4.0	12
65	High-Frequency and -Field Electron Paramagnetic Resonance Spectroscopic Analysis of Metalâ€“Ligand Covalency in a 4f⁷ Valence Series (Eu²⁺, Gd³⁺, and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5		12
66	Homochiral Mn³⁺ Spin-Crossover Complexes: A Structural and Spectroscopic Study. Inorganic Chemistry, 2022, 61, 3458-3471.	4.0	12
67	A new Cu/Zn carboxylato-bridged 1D polymer: Direct synthesis, X-ray structure and magnetic properties. Inorganica Chimica Acta, 2011, 373, 27-31.	2.4	11
68	HFEPR and Computational Studies on the Electronic Structure of a High-Spin Oxidoiron(IV) Complex in Solution. Inorganic Chemistry, 2016, 55, 3933-3945.	4.0	11
69	Murine Calprotectin Coordinates Mn(II) at a Hexahistidine Site with Ca(II)-Dependent Affinity. Inorganic Chemistry, 2019, 58, 13578-13590.	4.0	11
70	Dinuclear manganese(iii) complexes with bioinspired coordination and variable linkers showing weak exchange effects: a synthetic, structural, spectroscopic and computation study. Dalton Transactions, 2019, 48, 5909-5922.	3.3	10
71	Enhancing easy-plane anisotropy in bespoke Ni(II) quantum magnets. Polyhedron, 2020, 180, 114379.	2.2	10
72	Expanding manganese(<scp>iv</scp>) aqueous chemistry: unusually stable water-soluble hexahydrazide clathrochelate complexes. Chemical Communications, 2021, 57, 11060-11063.	4.1	9

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73	Effects of octahedral tilting on the site of substitution of manganese in CaTiO3. Acta Materialia, 2021, 207, 116688.	7.9	9
74	Near-ideal molecule-based Haldane spin chain. Physical Review Research, 2020, 2, .	3.6	9
75	Structural, spectroscopic, magnetic behavior and DFT investigations of<scp>l</scp>-tyrosinato nickel(<scp>ii</scp>) coordination polymer. New Journal of Chemistry, 2015, 39, 6813-6822.	2.8	8
76	Magnetic Properties of a Dinuclear Nickel(II) Complex with 2,6-Bis[(2-hydroxyethyl)methylaminomethyl]-4-methylphenolate. Inorganic Chemistry, 2017, 56, 138-146.	4.0	8
77	First crystal structures of oxo-bridged [Cr^{III}Ta^V] dinuclear complexes: spectroscopic, magnetic and theoretical investigations of the Crâ€“Oâ€“Ta core. New Journal of Chemistry, 2018, 42, 10912-10921.	2.8	8
78	Model Dimeric Manganese(IV) Complexes Featuring Terminal Tris-hydroxotetraazaadamantane and Various Bridging Ligands. Inorganic Chemistry, 2020, 59, 10768-10784.	4.0	8
79	Characterization of a Mixed-Valence Ru(II)/Ru(III) Ion-Pair Complex. Unexpected High-Frequency Electron Paramagnetic Resonance Evidence for Ru(III)â€“Ru(III) Dimer Coupling. Inorganic Chemistry, 2020, 59, 8609-8619.	4.0	8
80	Controlled Dimerization of Mn₁₂ Single-Molecule Magnets. Inorganic Chemistry, 2017, 56, 14755-14758.	4.0	7
81	Determining the anisotropy and exchange parameters of polycrystalline spin-1 magnets. New Journal of Physics, 2019, 21, 093025.	2.9	7
82	High-Field EPR Spectroscopic Characterization of Mn(II) Bound to the Bacterial Solute-Binding Proteins MntC and PsaA. Journal of Physical Chemistry B, 2019, 123, 4929-4934.	2.6	7
83	Electronic Structure and Magnetic Properties of a Titanium(II) Coordination Complex. Inorganic Chemistry, 2020, 59, 6187-6201.	4.0	7
84	Non-traditional thermal behavior of Co(<scp>ii</scp>) coordination networks showing slow magnetic relaxation. Inorganic Chemistry Frontiers, 2021, 8, 4356-4366.	6.0	7
85	Nitrene Photochemistry of Manganese Nâ€Haloamides**. Angewandte Chemie - International Edition, 2021, 60, 26647-26655.	13.8	7
86	Symmetry-breaking phase transitions, dielectric and magnetic properties of pyrrolidinium-tetrahalidocobaltates. Inorganic Chemistry Frontiers, 2022, 9, 2353-2364.	6.0	7
87	Signature of a randomness-driven spin-liquid state in a frustrated magnet. Communications Physics, 2022, 5, .	5.3	7
88	Mn(III) Chain Coordination Polymers Assembled by Salicylidene-2-ethanolamine Schiff Base Ligands: Synthesis, Crystal Structures, and HFEPR Study. Crystal Growth and Design, 2020, 20, 1491-1502.	3.0	5
89	Structural, spectroscopic insights, and antimicrobial properties of mononuclear and dinuclear metal(II) carboxylate derivatives with metronidazole. Polyhedron, 2021, 194, 114931.	2.2	5
90	o-Semiquinone radical anion isolated as an amorphous porous solid. Physical Chemistry Chemical Physics, 2021, 23, 17408-17419.	2.8	5

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91	Ferro-vs.antiferromagnetic exchange between two Ni(<scp>ii</scp>) ions in a series of Schiff base heterometallic complexes: what makes the difference?. Dalton Transactions, 2021, 50, 2841-2853.	3.3	5
92	Controlling Magnetic Anisotropy in a Zero-Dimensional S = 1 Magnet Using Isotropic Cation Substitution. Journal of the American Chemical Society, 2021, 143, 4633-4638.	13.7	3
93	Tale of Three Molecular Nitrides: Mononuclear Vanadium (V) and (IV) Nitrides As Well As a Mixed-Valence Trivanadium Nitride Having a V₃N₄ Double-Diamond Core. Journal of the American Chemical Society, 2022, 144, 10201-10219.	13.7	3
94	Investigation of vanadium(iii) and vanadium(iv) compounds supported by the linear diaminebis(phenolate) ligands: correlation between structures and magnetic properties. Dalton Transactions, 2021, 50, 5184-5196.	3.3	2
95	Electronic Structure and Magnetic Properties of a Low-Spin CrII Complex: trans-[CrCl2(dmpe)2] (dmpe) Tj ETQq1 1 0.784314 rgBT /O	4.0	2
96	Nitrene Photochemistry of Manganese Nâ€Haloamides**. Angewandte Chemie, 2021, 133, 26851-26859.	2.0	2
97	Magneto-structural Correlations in Ni²⁺â€“HalideÂ·Â·Â·Halideâ€“Ni²⁺ Chains. Inorganic Chemistry, 2022, 61, 141-153.	4.0	2
98	Ferromagnetically-coupled, triangular, [Bu4N]2[CuII3(Î¼3-Br)2(Î¼-4-O2N-pz)3Br3] complex revisited: The effect of coordinated halides on spin relaxation properties. Polyhedron, 2020, 177, 114258.	2.2	1
99	Tuning of Crâ€“Cr Magnetic Exchange through Chalcogenide Linkers in Cr₂ Molecular Dimers. Inorganic Chemistry, 2022, 61, 6160-6174.	4.0	1