Vincent L Pecoraro

List of Publications by Year
in descending order

306 papers	21,143 citations	5268 83 h-index	14208 128 g-index
343 all docs	343 docs citations	343 times ranked	10011 citing authors

#	Article	IF	Citations
1	Synthesis, Structure, and Magnetic Properties of a Large Lanthanideâ€“Transition-Metal Single-Molecule Magnet. Angewandte Chemie - International Edition, 2004, 43, 3912-3914.	13.8	522
2	Structural and Functional Evolution of Metallacrowns. Chemical Reviews, 2007, 107, 4933-5003.	47.7	466
3	Structural, Spectroscopic, and Reactivity Models for the Manganese Catalases. Chemical Reviews, 2004, 104, 903-938.	47.7	440
4	Protein Design: Toward Functional Metalloenzymes. Chemical Reviews, 2014, 114, 3495-3578.	47.7	379
5	Interaction of Manganese with Dioxygen and Its Reduced Derivatives. Chemical Reviews, 1994, 94, 807-826.	47.7	375
6	55Mn ENDOR of the S2-State Multiline EPR Signal of Photosystem II:Â Implications on the Structure of the Tetranuclear Mn Cluster. Journal of the American Chemical Society, 2000, 122, 10926-10942.	13.7	375
7	Functional Models for Vanadium Haloperoxidase:â€‰ Reactivity and Mechanism of Halide Oxidation. Journal of the American Chemical Society, 1996, 118, 3469-3478.	13.7	328
8	Reflections on small molecule manganese models that seek to mimic photosynthetic water oxidation chemistry. Coordination Chemistry Reviews, 2008, 252, 416-443.	18.8	326
9	A proposal for water oxidation in photosystem II. Pure and Applied Chemistry, 1998, 70, 925-929.	1.9	321
10	Thermodynamic binding constants for gallium transferrin. Biochemistry, 1983, 22, 292-299.	2.5	318
11	Stability constants of magnesium and cadmium complexes of adenine nucleotides and thionucleotides and rate constants for formation and dissociation of magnesium-ATP and magnesium-ADP. Biochemistry, 1984, 23, 5262-5271.	2.5	318
12	Hydrolytic catalysis and structural stabilization in a designed metalloprotein. Nature Chemistry, 2012, 4, 118-123.	13.6	293
13	Paramagnetic spectroscopy of vanadyl complexes and its applications to biological systems. Coordination Chemistry Reviews, 2002, 228, 1-18.	18.8	261
14	Isolation and characterization of {MnII[MnIII(salicylhydroximate)]4(acetate)2(DMF)6}.cntdot.2DMF: an inorganic analog of M2+(12-crown-4). Journal of the American Chemical Society, 1989, 111, 7258-7259.	13.7	256
15	The peroxide-dependent .mu.2-O bond formation of manganese complex [Mn(IV)SALPN(O)]2. Journal of the American Chemical Society, 1991, 113, 3810-3818.	13.7	196
16	The development of chiral metallacrowns into anion recognition agents and porous materials. Coordination Chemistry Reviews, 2001, 216-217, 489-512.	18.8	191
17	The Electronic Structure of Mn in Oxides, Coordination Complexes, and the Oxygen-Evolving Complex of Photosystem II Studied by Resonant Inelastic X-ray Scattering. Journal of the American Chemical Society, 2004, 126, 9946-9959.	13.7	177
18	Manganese Redox Enzymes and Model Systems: Properties, Structures, and Reactivity. Advances in Inorganic Chemistry, 1998, , 305-440.	1.0	174

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19	The Preparation, Characterization, and Magnetism of Copper 15-Metallacrown-5 Lanthanide Complexes. Inorganic Chemistry, 1999, 38, 2807-2817.	4.0	174
20	Structural characterization of the manganese sites in the photosynthetic oxygen-evolving complex using x-ray absorption spectroscopy. Journal of the American Chemical Society, 1990, 112, 2549-2557.	13.7	173
21	Ga³⁺/Ln³⁺ Metallacrowns: A Promising Family of Highly Luminescent Lanthanide Complexes That Covers Visible and Near-Infrared Domains. Journal of the American Chemical Society, 2016, 138, 5100-5109.	13.7	170
22	Assembly of Nearâ€Infrared Luminescent Lanthanide Host(Hostâ€“Guest) Complexes With a Metallacrown Sandwich Motif. Angewandte Chemie - International Edition, 2011, 50, 9660-9664.	13.8	161
23	Highly Emitting Near-Infrared Lanthanide â€œEncapsulated Sandwichâ€•Metallacrown Complexes with Excitation Shifted Toward Lower Energy. Journal of the American Chemical Society, 2014, 136, 1526-1534.	13.7	161
24	De NovoDesign of Mercury-Binding Two- and Three-Helical Bundles. Journal of the American Chemical Society, 1997, 119, 6195-6196.	13.7	157
25	Preparation of Highly Efficient Manganese Catalase Mimicsâ€–. Inorganic Chemistry, 2002, 41, 5544-5554.	4.0	153
26	Implications for the spectroscopic assignment of vanadium biomolecules: structural and spectroscopic characterization of monooxovanadium(V) complexes containing catecholate and hydroximate based noninnocent ligands. Journal of the American Chemical Society, 1992, 114, 9925-9933.	13.7	151
27	Monomeric and dimeric vanadium(IV) and -(V) complexes of N-(hydroxyalkyl)salicylideneamines: structures, magnetochemistry and reactivity. Inorganic Chemistry, 1990, 29, 944-951.	4.0	146
28	Structurally diverse manganese(III) Schiff base complexes: chains, dimers, and cages. Inorganic Chemistry, 1989, 28, 2037-2044.	4.0	143
29	Assessing the Slow Magnetic Relaxation Behavior of LnIII4MnIII6Metallacrowns. Inorganic Chemistry, 2007, 46, 1954-1956.	4.0	139
30	Copper(II) 12-Metallacrown-4: Synthesis, Structure, Ligand Variability, and Solution Dynamics in the 12-MC-4 Structural Motif. Inorganic Chemistry, 1994, 33, 4840-4849.	4.0	138
31	Recent advances in the understanding of the biological chemistry of manganese. Current Opinion in Chemical Biology, 1999, 3, 182-187.	6.1	136
32	Oxidation of Organic Sulfides by Vanadium Haloperoxidase Model Complexes. Inorganic Chemistry, 2002, 41, 6754-6760.	4.0	136
33	Structural characterization of [VO(salicylhydroximate)(CH3OH)]3: Applications to the biological chemistry of vanadium(V). Inorganica Chimica Acta, 1989, 155, 171-173.	2.4	135
34	Chiral 15-Metallacrown-5 Complexes Differentially Bind Carboxylate Anions. Journal of the American Chemical Society, 2001, 123, 6211-6212.	13.7	132
35	Structural and Magnetic Effects of Successive Protonations of Oxo Bridges in High-Valent Manganese Dimers. Journal of the American Chemical Society, 1994, 116, 11349-11356.	13.7	130
36	Comparison of the Binding of Cadmium(II), Mercury(II), and Arsenic(III) to the de Novo Designed Peptides TRI L12C and TRI L16C. Journal of the American Chemical Society, 2002, 124, 8042-8054.	13.7	129

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37	Designing Hydrolytic Zinc Metalloenzymes. Biochemistry, 2014, 53, 957-978.	2.5	126
38	Manganese-manganese separations in oxide- and alkoxide-bridged complexes: correlation of structure with ligand type and number. Inorganic Chemistry, 1992, 31, 373-378.	4.0	122
39	Using LnIII[15-MCCuII(N)(S)-pheHA-5]3+ Complexes To Construct Chiral Single-Molecule Magnets and Chains of Single-Molecule Magnets. Inorganic Chemistry, 2006, 45, 10022-10024.	4.0	122
40	The role of protonation and metal chelation preferences in defining the properties of mercury-binding coiled coils 1 1Edited by P. E. Wright. Journal of Molecular Biology, 1998, 280, 897-912.	4.2	121
41	Synthesis and Magnetic Properties of a Metallacryptate that Behaves as a Single-Molecule Magnet. Angewandte Chemie - International Edition, 2003, 42, 3763-3766.	13.8	121
42	Metallacrowns: A New Class of Molecular Recognition Agents. Progress in Inorganic Chemistry, 0, , 83-177.	3.0	121
43	Structural and Solution Characterization of Mononuclear Vanadium(IV) Complexes That Help To Elucidate the Active Site Structure of the Reduced Vanadium Haloperoxidases. Inorganic Chemistry, 1997, 36, 4866-4874.	4.0	120
44	Mononuclear manganese(IV) complexes of hydroxyl-rich Schiff base ligands. Inorganic Chemistry, 1987, 26, 2487-2492.	4.0	119
45	Energetics of Proton-Coupled Electron Transfer in High-Valent Mn2(Î¼-O)2Systems:Â Models for Water Oxidation by the Oxygen-Evolving Complex of Photosystem II. Journal of the American Chemical Society, 1996, 118, 11325-11326.	13.7	119
46	Reactivity of Dioxovanadium(V) Complexes with Hydrogen Peroxide:Â Implications for Vanadium Haloperoxidase. Inorganic Chemistry, 1998, 37, 949-955.	4.0	119
47	Reevaluation of the Additivity Relationship for Vanadylâ^'Imidazole Complexes:â€‰ Correlation of the EPR Hyperfine Constant with Ring Orientation. Journal of the American Chemical Society, 2000, 122, 767-775.	13.7	118
48	A Model for the Inhibition of Urease by Hydroxamates. Journal of the American Chemical Society, 1995, 117, 6368-6369.	13.7	117
49	Catalytic Oxidation of 3,5-Di-tert-butylcatechol by a Series of Mononuclear Manganese Complexes:Â Synthesis, Structure, and Kinetic Investigation. Inorganic Chemistry, 2003, 42, 6274-6283.	4.0	117
50	A functional model for vanadium haloperoxidase. Journal of the American Chemical Society, 1994, 116, 3627-3628.	13.7	114
51	Assessing the exchange coupling in binuclear lanthanide(<scp>iii</scp>) complexes and the slow relaxation of the magnetization in the antiferromagnetically coupled Dy₂ derivative. Chemical Science, 2015, 6, 4148-4159.	7.4	114
52	Novel reactivity patterns of (N,N'-ethylenebis(salicylideneaminato))oxovanadium(IV) in strongly acidic media. Inorganic Chemistry, 1987, 26, 1218-1222.	4.0	113
53	Vanadium complexes of the tridentate Schiff base ligand N-salicylidene-N'-(2-hydroxyethyl)ethylenediamine: acid-base and redox conversion between vanadium(IV) and vanadium(V) imino phenolates. Inorganic Chemistry, 1988, 27, 4657-4664.	4.0	113
54	Structural and spectroscopic characterization of dioxovanadium(V) complexes with asymmetric Schiff base ligands. Inorganic Chemistry, 1993, 32, 3855-3861.	4.0	112

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55	Lanthanide [15]Metallacrown-5 Complexes Form Nitrate-Selective Chiral Cavities. Angewandte Chemie - International Edition, 2000, 39, 2689-2692.	13.8	112
56	Modeling vanadium bromoperoxidase: synthesis, structure, and spectral properties of vanadium(IV) complexes with coordinated imidazole. Inorganic Chemistry, 1992, 31, 2035-2043.	4.0	110
57	Designing functional metalloproteins: From structural to catalytic metal sites. Coordination Chemistry Reviews, 2013, 257, 2565-2588.	18.8	109
58	Near-Infrared Optical Imaging of Necrotic Cells by Photostable Lanthanide-Based Metallacrowns. Journal of the American Chemical Society, 2017, 139, 8388-8391.	13.7	109
59	Copper-induced expression, cloning, and regulatory studies of the plastocyanin gene from the cyanobacterium Synechocystis sp. PCC 6803. Plant Molecular Biology, 1990, 15, 633-642.	3.9	108
60	Facile Preparation of Face Differentiated, Chiral 15-Metallacrown-5 Complexes. Journal of the American Chemical Society, 1996, 118, 11962-11963.	13.7	108
61	Preparation of a Chiral, 2-Dimensional Network Containing Metallacrown and Copper Benzoate Building Blocks. Inorganic Chemistry, 2000, 39, 3434-3435.	4.0	108
62	Metallacryptate Single-Molecule Magnets:Â Effect of Lower Molecular Symmetry on Blocking Temperature. Journal of the American Chemical Society, 2005, 127, 12862-12872.	13.7	108
63	Catalytic disproportionation of hydrogen peroxide by manganese complex [Mn(IV)(.mu.2-O)(SALPN)]2. Journal of the American Chemical Society, 1991, 113, 7809-7810.	13.7	107
64	Preparation of Resolved Fourfold Symmetric Amphiphilic Helices Using Chiral Metallacrown Building Blocks. Angewandte Chemie - International Edition, 2002, 41, 4667-4670.	13.8	107
65	Reactivity of Peroxo Forms of the Vanadium Haloperoxidase Cofactor. A DFT Investigation. Journal of the American Chemical Society, 2005, 127, 953-960.	13.7	107
66	[Mn(III)(2-OHsalpn)]2 is an efficient functional model for the manganese catalases. Journal of the American Chemical Society, 1993, 115, 7928-7929.	13.7	106
67	Elucidating the Protonation Site of Vanadium Peroxide Complexes and the Implications for Biomimetic Catalysis. Journal of the American Chemical Society, 2008, 130, 2712-2713.	13.7	105
68	Siderophilin metal coordination. Difference ultraviolet spectroscopy of di-, tri-, and tetravalent metal ions with ethylenebis[(o-hydroxyphenyl)glycine]. Biochemistry, 1981, 20, 7033-7039.	2.5	104
69	Structural Evaluation and Solution Integrity of Alkali Metal Salt Complexes of the Manganese 12-Metallacrown-4 (12-MC-4) Structural Type. Inorganic Chemistry, 1996, 35, 6184-6193.	4.0	104
70	Characterization of mono- and binuclear manganese(II) Schiff base complexes with metal-disulfide ligation. Inorganic Chemistry, 1987, 26, 495-503.	4.0	102
71	Structurally diverse manganese(III) Schiff base complexes: solution speciation via paramagnetic proton NMR spectroscopy and electrochemistry. Inorganic Chemistry, 1989, 28, 2044-2051.	4.0	102
72	The [Mn2(2-OHsalpn)2]2-,-,0,+System:Â Synthesis, Structure, Spectroscopy, and Magnetism of the First Structurally Characterized Dinuclear Manganese Series Containing Four Distinct Oxidation States. Inorganic Chemistry, 1997, 36, 1829-1837.	4.0	102

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73	The [Mn2(2-OHsalpn)2]2-,1-,0System:Â An Efficient Functional Model for the Reactivity and Inactivation of the Manganese Catalases. Inorganic Chemistry, 1998, 37, 3301-3309.	4.0	101
74	A Mixed 3dâˆ’4f 14-Metallacrown-5 Complex That Displays Slow Magnetic Relaxation through Geometric Control of Magnetoanisotropy. Inorganic Chemistry, 2010, 49, 9104-9106.	4.0	101
75	Designing a functional type 2 copper center that has nitrite reductase activity within Î±-helical coiled coils. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 21234-21239.	7.1	101
76	Preparation of Site-Differentiated Mixed Ligand and Mixed Ligand/Mixed Metal Metallacrowns. Inorganic Chemistry, 2001, 40, 1562-1570.	4.0	100
77	X-ray crystallographic characterization of a stepwise, metal-assisted oxidative decarboxylation: vanadium complexes of ethylenebis[(o-hydroxyphenyl)glycine] and derivatives. Inorganic Chemistry, 1986, 25, 154-160.	4.0	96
78	A Planar[15]Metallacrown-5 That Selectively Binds the Uranyl Cation. Angewandte Chemie International Edition in English, 1996, 35, 2841-2843.	4.4	92
79	The tetranuclear cluster Fe III [Fe III (salicylhydroximato)(MeOH)(acetate)]3 is an analogue of M3+(9-crown-3). Journal of the Chemical Society Chemical Communications, 1989, , 1606.	2.0	91
80	Structural and magnetic characterization of trinuclear, mixed-valence manganese acetates. Inorganic Chemistry, 1992, 31, 5424-5432.	4.0	90
81	The fused metallacrown anion Na2{[Na0.5[Ga(salicylhydroximate)]4]2(.mu.2-OH)4}- is an inorganic analog of a cryptate. Journal of the American Chemical Society, 1993, 115, 5857-5858.	13.7	90
82	Thermodynamic Viability of Hydrogen Atom Transfer from Water Coordinated to the Oxygen-Evolving Complex of Photosystem II. Journal of the American Chemical Society, 1997, 119, 3415-3416.	13.7	90
83	Synthesis and Crystal Structure of the First Inverse 12-Metallacrown-4. Inorganic Chemistry, 1995, 34, 2271-2272.	4.0	86
84	Understanding Metalloprotein Folding Using a de Novo Design Strategy. Inorganic Chemistry, 2004, 43, 7902-7915.	4.0	85
85	Identifying important structural characteristics of arsenic resistance proteins by using designed three-stranded coiled coils. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11969-11974.	7.1	85
86	The Preparation of VO3+ and VO2+ Complexes Using Hydrolytically Stable, Asymmetric Ligands Derived from Schiff Base Precursors. Inorganic Chemistry, 1994, 33, 4669-4675.	4.0	83
87	Generalizing the metallacrown analogy: ligand variation and solution stability of the VVO 9-metallacrown-3 structure type. Inorganic Chemistry, 1993, 32, 6008-6015.	4.0	82
88	Compositional and geometrical isomers of 15-metallacrowns-5 complexes. Polyhedron, 1994, 13, 1379-1391.	2.2	81
89	Peptidic models for the binding of Pb(II), Bi(III) and Cd(II) to mononuclear thiolate binding sites. Journal of Biological Inorganic Chemistry, 2006, 11, 876-890.	2.6	80
90	Influence of Active Site Location on Catalytic Activity in <i>de Novo</i>-Designed Zinc Metalloenzymes. Journal of the American Chemical Society, 2013, 135, 5895-5903.	13.7	78

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91	Modeling the biological chemistry of vanadium: Structural and reactivity studies elucidating biological function. Structure and Bonding, 1997, , 51-108.	1.0	77
92	Ternary Complexes of Gentamicin with Iron and Lipid Catalyze Formation of Reactive Oxygen Species. Chemical Research in Toxicology, 2005, 18, 357-364.	3.3	77
93	A functional analogy between crown ethers and metallacrowns. Inorganic Chemistry, 1991, 30, 878-880.	4.0	76
94	Manganese complexes of .alpha.-hydroxy acids. Inorganic Chemistry, 1991, 30, 8-15.	4.0	76
95	Design of a Threeâ€Helix Bundle Capable of Binding Heavy Metals in a Triscysteine Environment. Angewandte Chemie - International Edition, 2011, 50, 2049-2053.	13.8	76
96	Siderophilin metal coordination. 1. Complexation of thorium by transferrin: structure-function implications. Journal of the American Chemical Society, 1981, 103, 2231-2237.	13.7	75
97	Arsenic(III)âˆ’Cysteine Interactions Stabilize Three-Helix Bundles in Aqueous Solution. Inorganic Chemistry, 2000, 39, 5422-5423.	4.0	74
98	Development of Metallacrown Ethers: A New Class of Metal Clusters. Comments on Inorganic Chemistry, 1990, 11, 59-84.	5.2	71
99	ESE-ENDOR and ESEEM Characterization of Water and Methanol Ligation to a Dinuclear Mn(III)Mn(IV) Complexâ€. Journal of the American Chemical Society, 1997, 119, 4481-4491.	13.7	71
100	Insight into the Catalytic Mechanism of Vanadium Haloperoxidases. DFT Investigation of Vanadium Cofactor Reactivity. Inorganic Chemistry, 2006, 45, 7133-7143.	4.0	71
101	A Deâ€…Novo Designed Metalloenzyme for the Hydration of CO₂. Angewandte Chemie - International Edition, 2014, 53, 7900-7903.	13.8	69
102	Probing metalâ€“protein interactions using a de novo design approach. Current Opinion in Chemical Biology, 2005, 9, 97-103.	6.1	67
103	The Application of ¹⁹⁹Hg NMR and ^{199m}Hg Perturbed Angular Correlation (PAC) Spectroscopy to Define the Biological Chemistry of Hg^{II}: A Case Study with Designed Twoâ€•and Threeâ€Stranded Coiled Coils. Chemistry - A European Journal, 2007, 13, 9178-9190.	3.3	67
104	Isolation of a mixed-valence trinuclear manganese complex potentially relevant to the photosynthetic oxygen evolving complex. Inorganic Chemistry, 1988, 27, 1-3.	4.0	66
105	The First Binuclear Mn(IV) Complex Containing a Bridging Imidazolate Ligand Exhibits Unique EPR Spectral Features. Journal of the American Chemical Society, 1997, 119, 9297-9298.	13.7	65
106	A magneto-structural correlation between the Heisenberg constant, J, and the Mnî—¸Oî—¸Mn angle in [MnIV(Î¼-O)]2 dimers. Inorganica Chimica Acta, 2000, 297, 252-264.	2.4	65
107	Using Nonnatural Amino Acids to Control Metal-Coordination Number in Three-Stranded Coiled Coils. Angewandte Chemie - International Edition, 2006, 45, 2864-2868.	13.8	63
108	Mechanism for the Homolytic Cleavage of Alkyl Hydroperoxides by the Manganese(III) Dimer MnIII2(2-OHsalpn)2. Inorganic Chemistry, 1996, 35, 3577-3584.	4.0	62

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109	Using diastereopeptides to control metal ion coordination in proteins. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16566-16571.	7.1	62
110	Experimental and Computational X-ray Emission Spectroscopy as a Direct Probe of Protonation States in Oxo-Bridged Mn^{IV} Dimers Relevant to Redox-Active Metalloproteins. Inorganic Chemistry, 2013, 52, 12915-12922.	4.0	62
111	Thermodynamic Model for the Stabilization of Trigonal Thiolato Mercury(II) in Designed Three-Stranded Coiled Coilsâ€. Biochemistry, 2001, 40, 14696-14705.	2.5	61
112	XANES Evidence Against a Manganyl Species in the S3 State of the Oxygen-Evolving Complex. Journal of the American Chemical Society, 2004, 126, 8070-8071.	13.7	61
113	Tuning the Redox Properties of Manganese(II) and Its Implications to the Electrochemistry of Manganese and Iron Superoxide Dismutases. Inorganic Chemistry, 2008, 47, 2897-2908.	4.0	61
114	In Search of Elusive High-Valent Manganese Species That Evaluate Mechanisms of Photosynthetic Water Oxidation. Inorganic Chemistry, 2008, 47, 1765-1778.	4.0	61
115	Assessing the Dependence of ⁵¹V <i>A</i>_{<i>z</i>} Value on the Aromatic Ring Orientation of V^{IV}O²⁺ Pyridine Complexes. Inorganic Chemistry, 2009, 48, 5790-5796.	4.0	60
116	Controllable Formation of Heterotrimetallic Coordination Compounds: Systematically Incorporating Lanthanide and Alkali Metal Ions into the Manganese 12-Metallacrown-4 Framework. Inorganic Chemistry, 2014, 53, 1729-1742.	4.0	60
117	A cationic 24-MC-8 manganese cluster with ring metals possessing three oxidation states [MnII4MnIII6MnIV2(Î¼4-O)2(Î¼3-O)4(Î¼3-OH)4(Î¼3-OCH3)2(pko)12](OH)(ClO4)3. Chemical Communications, 2003, , 2668-2669.	4.1	59
118	Gd(III)[15-Metallacrown-5] Recognition of Chiral Î±-Amino Acid Analogues. Inorganic Chemistry, 2011, 50, 4832-4841.	4.0	59
119	Influencing the Size and Anion Selectivity of Dimeric Ln³⁺[15-Metallacrown-5] Compartments through Systematic Variation of the Host Side Chains and Central Metal. Inorganic Chemistry, 2012, 51, 4527-4538.	4.0	59
120	Quantum Mechanical Models of the Resting State of the Vanadium-Dependent Haloperoxidase. Inorganic Chemistry, 2004, 43, 4127-4136.	4.0	58
121	Metallacrown-based compartments: selective encapsulation of three isonicotinate anions in non-centrosymmetric solids. Chemical Communications, 2007, , 1148.	4.1	58
122	Structural Comparisons of Apo- and Metalated Three-Stranded Coiled Coils Clarify Metal Binding Determinants in Thiolate Containing Designed Peptides. Journal of the American Chemical Society, 2010, 132, 13240-13250.	13.7	57
123	Electronic Structural Changes of Mn in the Oxygen-Evolving Complex of Photosystem II during the Catalytic Cycle. Inorganic Chemistry, 2013, 52, 5642-5644.	4.0	57
124	Isolation of the first ferromagnetically coupled Mn(iii/iv) complexElectronic supplementary information (ESI) available: Figures S1â€“S4. See http://www.rsc.org/suppdata/cc/b2/b212684m/. Chemical Communications, 2003, , 824-825.	4.1	56
125	Single Molecule Magnet Behavior of a Pentanuclear Mn-Based Metallacrown Complex: Solid State and Solution Magnetic Studies. Inorganic Chemistry, 2011, 50, 11348-11352.	4.0	56
126	Pseudohalide complexation by manganese 12-metallacrowns-4 complexes. Inorganica Chimica Acta, 2002, 331, 73-80.	2.4	55

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127	Models for the Lower S States of Photosystem II:Â A Trinuclear Mixed-Valent MnII/MnIV/MnIIComplex. Inorganic Chemistry, 2003, 42, 2185-2187.	4.0	55
128	Hg(II) binding to a weakly associated coiled coil nucleates an encoded metalloprotein fold: A kinetic analysis. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3760-3765.	7.1	55
129	Linear Free-Energy Analysis of Mercury(II) and Cadmium(II) Binding to Three-Stranded Coiled Coilsâ€. Biochemistry, 2005, 44, 10732-10740.	2.5	55
130	The Preparation of a Double Metallahelicate Containing 28 Copper Atoms. Angewandte Chemie - International Edition, 2003, 42, 546-549.	13.8	53
131	Quantum Mechanics/Molecular Mechanics Calculations of the Vanadium Dependent Chloroperoxidase. Journal of Chemical Theory and Computation, 2005, 1, 1265-1274.	5.3	53
132	Solvent effects on 51V NMR chemical shifts: characterization of vanadate and peroxovanadate complexes in mixed water/acetonitrile solvent. Inorganica Chimica Acta, 1998, 283, 37-43.	2.4	52
133	Control of Metal Coordination Number in de Novo Designed Peptides through Subtle Sequence Modifications. Journal of the American Chemical Society, 2004, 126, 9178-9179.	13.7	52
134	Voltammetric Characterization of Redoxâ€•Inactive Guest Binding to Ln^{III}[15â€•Metallacrownâ€•5] Hosts Based on Competition with a Redox Probe. Chemistry - A European Journal, 2010, 16, 6786-6796.	3.3	52
135	<i>De Novo</i> Protein Design as a Methodology for Synthetic Bioinorganic Chemistry. Accounts of Chemical Research, 2015, 48, 2388-2396.	15.6	51
136	The effect of protonation on [Mn(IV)(?2-O)]2 complexes. Photosynthesis Research, 1993, 38, 303-308.	2.9	50
137	Catalytic Disproportionation of Hydrogen Peroxide by the Tetranuclear Manganese Complex [MnII(2-OHpicpn)]4. Inorganic Chemistry, 1996, 35, 1419-1420.	4.0	50
138	Site-Selective Metal Binding by Designed Î±-Helical Peptides. Journal of the American Chemical Society, 2005, 127, 18229-18233.	13.7	50
139	Harnessing natures ability to control metal ion coordination geometry using de novo designed peptides. Dalton Transactions, 2009, , 2271.	3.3	50
140	Chiral Metallacrown Supramolecular Compartments that Template Nanochannels: Selfâ€•Assembly and Guest Absorption. Chemistry - an Asian Journal, 2010, 5, 46-49.	3.3	50
141	Structural and spectroscopic characterization of vanadium(V)-oxoimidazole complexes. Inorganic Chemistry, 1992, 31, 1981-1983.	4.0	49
142	Structural and Magnetic Studies of Manganese(II) Complexes of the Imidazole-Containing Ligand 5-NO2-salimH [5-NO2-salimH2 = 4-(2-((5-nitrosalicylidene)amino)ethyl)imidazole] with Varying Nuclearity. Inorganic Chemistry, 1995, 34, 5252-5260.	4.0	49
143	Heterochromia in Designed Metallopeptides: Geometry-Selective Binding of CdII in a Deâ€…Novo Peptide. Angewandte Chemie - International Edition, 2007, 46, 6688-6691.	13.8	49
144	Thermodynamics of Core Metal Replacement and Self-Assembly of Ca²⁺ 15-Metallacrown-5. Inorganic Chemistry, 2010, 49, 5190-5201.	4.0	49

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145	De Novo-Designed Metallopeptides with Type 2 Copper Centers: Modulation of Reduction Potentials and Nitrite Reductase Activities. Journal of the American Chemical Society, 2013, 135, 18096-18107.	13.7	49
146	The 199Hg Chemical Shift as a Probe of Coordination Environments in Blue Copper Proteins. Inorganic Chemistry, 1995, 34, 2497-2498.	4.0	48
147	The Protonation States of Oxo-Bridged Mn^{IV} Dimers Resolved by Experimental and Computational Mn K Pre-Edge X-ray Absorption Spectroscopy. Inorganic Chemistry, 2013, 52, 12904-12914.	4.0	48
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305	A Modelling Approach for Understanding Water Oxidation in Photosynthesis. , 1995, , 1355-1358.		0
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