Annette Rompel

List of Publications by Year in Descending Order

154 papers	5,104 citations	38 h-index	66 g-index
163 ext. papers	6,093 ext. citations	6.3 avg, IF	6.45 L-index

#	Paper	IF	Citations
154	Crystal structure of hexa-sodium tetra-serinolium paratungstate B deca-hydrate, [Na{(CHOH)CHNH}][WO(OH)]10HO.. *Acta Crystallographica Section E: Crystallographic Communications*, **2022**, 78, 207-210	0.7	
153	Polyphenol oxidase and enzymatic browning in apricot (L.): Effect on phenolic composition and deduction of main substrates.. *Current Research in Food Science*, **2022**, 5, 196-206	5.6	3
152	Polyoxidovanadates' interactions with proteins: An overview. *Coordination Chemistry Reviews*, **2022**, 454, 214344	23.2	12
151	Synthesis and characterization of the ' Japanese rice-ball'-shaped Molybdenum Blue Na[MoO(OH)(CHNO)][MoCeOH(OH)(HO)]~200HO.. *Acta Crystallographica Section C, Structural Chemistry*, **2022**, 78, 299-304	0.8	0
150	Quantifying up to 90 polyphenols simultaneously in human bio-fluids by LC-MS/MS. *Analytica Chimica Acta*, **2022**, 339977	6.6	1
149	Interweaving Disciplines to Advance Chemistry: Applying Polyoxometalates in Biology. *Inorganic Chemistry*, **2021**, 60, 6109-6114	5.1	10
148	Polyphenol Exposure, Metabolism, and Analysis: A Global Exposomics Perspective. *Annual Review of Food Science and Technology*, **2021**, 12, 461-484	14.7	6
147	Phosphate-Templated Encapsulation of a {Co O } Cubane in Germanotungstates as Carbon-Free Homogeneous Water Oxidation Photocatalysts. *ChemSusChem*, **2021**, 14, 2529-2536	8.3	4
146	Defect {(WO)W} and Full {(WO)W} Pentagonal Units as Synthons for the Generation of Nanosized Main Group V Heteropolyoxotungstates. *Inorganic Chemistry*, **2021**, 60, 8917-8923	5.1	1
145	The Smallest Polyoxotungstate Retained by TRIS-Stabilization. *Inorganic Chemistry*, **2021**, 60, 12671-12675	5.1	0
144	Synthesis and characterization of the Anderson-Evans tungstoantimonate [Na(HO){(HOCH)CHNH}][SbWO]. *Acta Crystallographica Section C, Structural Chemistry*, **2021**, 77, 420-425	0.8	2
143	Expression, Purification, and Characterization of a Well-Adapted Tyrosinase from Peatlands Identified by Partial Community Analysis. *Environmental Science & Technology*, **2021**,	10.3	1
142	Aluminum-Substituted Keggin Germanotungstate [HAl(HO)GeWO]: Synthesis, Characterization, and Antibacterial Activity. *Inorganic Chemistry*, **2021**, 60, 28-31	5.1	3
141	Similar but Still Different: Which Amino Acid Residues Are Responsible for Varying Activities in Type-III Copper Enzymes?. *ChemBioChem*, **2021**, 22, 1161-1175	3.8	6
140	Speciation of Transition-Metal-Substituted Keggin-Type Silicotungstates Affected by the Co-crystallization Conditions with Proteinase K. *Inorganic Chemistry*, **2021**, 60, 15096-15100	5.1	1
139	Wells-Dawson phosphotungstates as mushroom tyrosinase inhibitors: a speciation study. *Scientific Reports*, **2021**, 11, 19354	4.9	0
138	Polyoxovanadates with emerging biomedical activities. *Coordination Chemistry Reviews*, **2021**, 447, 214143	23.2	30

137	Toward Artificial Mussel-Glue Proteins: Differentiating Sequence Modules for Adhesion and Switchable Cohesion. *Angewandte Chemie*, **2020**, 132, 18653-18657	3.6	5
136	Identification of the amino acid position controlling the different enzymatic activities in walnut tyrosinase isoenzymes (jrPPO1 and jrPPO2). *Scientific Reports*, **2020**, 10, 10813	4.9	5
135	Polyphenol oxidases exhibit promiscuous proteolytic activity. *Communications Chemistry*, **2020**, 3,	6.3	7
134	Toward Artificial Mussel-Glue Proteins: Differentiating Sequence Modules for Adhesion and Switchable Cohesion. *Angewandte Chemie - International Edition*, **2020**, 59, 18495-18499	16.4	17
133	Conversion of walnut tyrosinase into a catechol oxidase by site directed mutagenesis. *Scientific Reports*, **2020**, 10, 1659	4.9	11
132	Incorporation of Cr into a Keggin Polyoxometalate as a Chemical Strategy to Stabilize a Labile {CrO} Tetrahedral Conformation and Promote Unattended Single-Ion Magnet Properties. *Journal of the American Chemical Society*, **2020**, 142, 3336-3339	16.4	15
131	Binding of a Fatty Acid-Functionalized Anderson-Type Polyoxometalate to Human Serum Albumin. *Inorganic Chemistry*, **2020**, 59, 5243-5246	5.1	9
130	Cation-Directed Synthetic Strategy Using 4f Tungstoantimonates as Nonlacunary Precursors for the Generation of 3d-4f Clusters. *Inorganic Chemistry*, **2020**, 59, 8461-8467	5.1	6
129	Polyoxometalates in solution: speciation under spotlight. *Chemical Society Reviews*, **2020**, 49, 7568-7601	58.5	74
128	Die Erzeugung von Tyrosinaseaktivit□in einer Catecholoxidase erlaubt die Identifizierung der f□die C-H-Aktivierung in Typ-III-Kupferenzymen verantwortlichen Aminos□rereste. *Angewandte Chemie*, **2020**, 132, 21126-21131	3.6	1
127	Identification of Amino Acid Residues Responsible for C-H Activation in Type-III Copper Enzymes by Generating Tyrosinase Activity in a Catechol Oxidase. *Angewandte Chemie - International Edition*, **2020**, 59, 20940-20945	16.4	6
126	Synthesis, Characterization, and Phosphoesterase Activity of a Series of 4f- and 4d-Sandwich-Type Germanotungstates [(-CH)N]H[(M(HO))(□GeWO)] (M = Ce, Nd, Gd, Er, = 7; Zr, = 6). *Inorganic Chemistry*, **2020**, 59, 14078-14084	5.1	3
125	The Aquaporin-3-Inhibiting Potential of Polyoxotungstates. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	18
124	Transition metal-substituted Keggin polyoxotungstates enabling covalent attachment to proteinase K upon co-crystallization. *Chemical Communications*, **2019**, 55, 11519-11522	5.8	9
123	Inhibition of apricot polyphenol oxidase by combinations of plant proteases and ascorbic acid. *Food Chemistry: X*, **2019**, 4, 100053	4.7	13
122	Synthesis, crystal structure and characterization of two new Cr(III)-substituted polyoxotungstates: [Cr((OCH2)3CCH2OH)2W6O18]3□and [H3Cr2W10O38(H2O)2]7□*Polyhedron*, **2019**, 169, 202-208	2.7	1
121	Synthesis, characterization, and POM-protein interactions of a Fe-substituted Krebs-type Sandwich-tungstoantimonate. *Monatshefte F□Chemie*, **2019**, 150, 871-875	1.4	3
120	Inhibition of Na/K- and Ca-ATPase activities by phosphotetradecavanadate. *Journal of Inorganic Biochemistry*, **2019**, 197, 110700	4.2	23

119	Eine peptidvermittelte Selbstspaltungsreaktion initiiert die Tyrosinaseaktivierung. *Angewandte Chemie*, **2019**, 131, 7553-7557	3.6	3
118	A Peptide-Induced Self-Cleavage Reaction Initiates the Activation of Tyrosinase. *Angewandte Chemie - International Edition*, **2019**, 58, 7475-7479	16.4	16
117	Keggin-type polyoxotungstates as mushroom tyrosinase inhibitors - A speciation study. *Scientific Reports*, **2019**, 9, 5183	4.9	9
116	Biochemical and structural characterization of tomato polyphenol oxidases provide novel insights into their substrate specificity. *Scientific Reports*, **2019**, 9, 4022	4.9	24
115	Im Kampf gegen Krebs: Polyoxometallate als nächste Generation metallhaltiger Medikamente. *Angewandte Chemie*, **2019**, 131, 3008-3029	3.6	39
114	Polyoxometalates as Potential Next-Generation Metallodrugs in the Combat Against Cancer. *Angewandte Chemie - International Edition*, **2019**, 58, 2980-2999	16.4	232
113	Photoheterotrophic growth of unicellular cyanobacterium Synechocystis sp. PCC 6803 gtr□ dependent on fructose. *Monatshefte F□ Chemie*, **2019**, 150, 1863-1868	1.4	1
112	Regioselective synthesis and characterization of monovanadium-substituted ╫octamolybdate [VMoO]. *Acta Crystallographica Section C, Structural Chemistry*, **2019**, 75, 872-876	0.8	1
111	Tyrosinases: Enzymes, Models and Related Applications. *Series on Chemistry, Energy and the Environment*, **2019**, 155-183	0.2	1
110	Investigations on the formation of dihydrochalcones in apple (Malus sp.) leaves. *Acta Horticulturae*, **2019**, 415-420	0.3	1
109	Tuning the interactions of decavanadate with thaumatin, lysozyme, proteinase K and human serum proteins by its coordination to a pentaaquacobalt(II) complex cation. *New Journal of Chemistry*, **2019**, 43, 17863-17871	3.6	10
108	Transport of organic substances through the cytoplasmic membrane of cyanobacteria. *Phytochemistry*, **2019**, 157, 206-218	4	14
107	Successful amphiphiles as the key to crystallization of membrane proteins: Bridging theory and practice. *Biochimica Et Biophysica Acta - General Subjects*, **2019**, 1863, 437-455	4	13
106	Direct Single- and Double-Side Triol-Functionalization of the Mixed Type Anderson Polyoxotungstate [Cr(OH)WO]. *Inorganic Chemistry*, **2019**, 58, 106-113	5.1	12
105	Polyoxometalates as Potential Next-Generation Metallodrugs in the Combat Against Cancer **2019**, 58, 2980		1
104	Polyoxometalates as Potential Next-Generation Metallodrugs in the Combat Against Cancer **2019**, 58, 2980		1
103	A Peptide-Induced Self-Cleavage Reaction Initiates the Activation of Tyrosinase **2019**, 58, 7475		2
102	Synthesis, structures and applications of electron-rich polyoxometalates. *Nature Reviews Chemistry*, **2018**, 2,	34.6	212

101	The antibacterial activity of polyoxometalates: structures, antibiotic effects and future perspectives. *Chemical Communications*, **2018**, 54, 1153-1169	5.8	196
100	The P-type ATPase inhibiting potential of polyoxotungstates. *Metallomics*, **2018**, 10, 287-295	4.5	27
99	What causes the different functionality in type-III-copper enzymes? A state of the art perspective. *Inorganica Chimica Acta*, **2018**, 481, 25-31	2.7	31
98	The crystallization additive hexatungstotellurate promotes the crystallization of the HSP70 nucleotide binding domain into two different crystal forms. *PLoS ONE*, **2018**, 13, e0199639	3.7	12
97	Recent progress in synthesis and characterization of metal chalcone complexes and their potential as bioactive agents. *Coordination Chemistry Reviews*, **2018**, 374, 497-524	23.2	28
96	Total Synthesis, Stereochemical Assignment, and Divergent Enantioselective Enzymatic Recognition of Larreatricin. *Chemistry - A European Journal*, **2018**, 24, 15756-15760	4.8	13
95	Synthesis and characterization of hybrid Anderson hexamolybdoaluminates(III) functionalized with indometacin or cinnamic acid. *Acta Crystallographica Section C, Structural Chemistry*, **2018**, 74, 1378-1383	0.8	3
94	Synthesis of the first Zn-hexagon sandwich-tungstoantimonate via rearrangement of a non-lacunary Krebs-type polyoxotungstate. *Dalton Transactions*, **2018**, 47, 15651-15655	4.3	7
93	Iron(II) and copper(II) paratungstates B: a single-crystal X-ray diffraction study. *Acta Crystallographica Section C, Structural Chemistry*, **2018**, 74, 1252-1259	0.8	3
92	Polymerizing Like Mussels Do: Toward Synthetic Mussel Foot Proteins and Resistant Glues. *Angewandte Chemie - International Edition*, **2018**, 57, 15728-15732	16.4	29
91	Production, characterization and adsorption studies of bamboo-based biochar/montmorillonite composite for nitrate removal. *Waste Management*, **2018**, 79, 385-394	8.6	69
90	Polyoxometalates: more than a phasing tool in protein crystallography. *ChemTexts*, **2018**, 4, 10	2.2	26
89	Polymerizing Like Mussels Do: Toward Synthetic Mussel Foot Proteins and Resistant Glues. *Angewandte Chemie*, **2018**, 130, 15954-15958	3.6	9
88	Antibacterial Activity of Polyoxometalates Against. *Frontiers in Chemistry*, **2018**, 6, 336	5	20
87	Electronic State of Sodium trans-[Tetrachloridobis(1H-indazole)ruthenate(III)] (NKP-1339) in Tumor, Liver and Kidney Tissue of a SW480-bearing Mouse. *Scientific Reports*, **2017**, 7, 40966	4.9	21
86	Ten Good Reasons for the Use of the Tellurium-Centered Anderson-Evans Polyoxotungstate in Protein Crystallography. *Accounts of Chemical Research*, **2017**, 50, 1441-1448	24.3	70
85	Three recombinantly expressed apple tyrosinases suggest the amino acids responsible for mono- versus diphenolase activity in plant polyphenol oxidases. *Scientific Reports*, **2017**, 7, 8860	4.9	35
84	Purification and Characterization of Latent Polyphenol Oxidase from Apricot (Prunus armeniaca L.). *Journal of Agricultural and Food Chemistry*, **2017**, 65, 8203-8212	5.7	47

83	Heterologous expression and characterization of functional mushroom tyrosinase (AbPPO4). *Scientific Reports*, **2017**, 7, 1810	4.9	66
82	The potential of hexatungstotellurate(VI) to induce a significant entropic gain during protein crystallization. *IUCrJ*, **2017**, 4, 734-740	4.7	27
81	In crystallo activity tests with latent apple tyrosinase and two mutants reveal the importance of the mutated sites for polyphenol oxidase activity. *Acta Crystallographica Section F, Structural Biology Communications*, **2017**, 73, 491-499	1.1	11
80	The Anderson–Evans polyoxometalate: From inorganic building blocks via hybrid organic–inorganic structures to tomorrows Bio-POM. *Coordination Chemistry Reviews*, **2016**, 307, 42-64	23.2	197
79	Synthesis, structure, and antioxidant activity of methoxy- and hydroxyl-substituted 2'-aminochalcones. *Monatshefte Für Chemie*, **2016**, 147, 1747-1757	1.4	14
78	Synthesis, characterization, and antioxidant activity of Zn and Cu coordinated polyhydroxychalcone complexes. *Monatshefte Für Chemie*, **2016**, 147, 1871-1881	1.4	15
77	Synthesis and Characterization of the First Nickel(II)-Centered Single-Side Tris-Functionalized Anderson-Type Polyoxomolybdate. *European Journal of Inorganic Chemistry*, **2016**, 2016, 5507-5511	2.3	19
76	[Ni(OH)3W6O18(OCH2)3CCH2OH](4-): the first tris-functionalized Anderson-type heteropolytungstate. *Chemical Communications*, **2016**, 52, 9263-6	5.8	28
75	Photoreduction of Terrigenous Fe-Humic Substances Leads to Bioavailable Iron in Oceans. *Angewandte Chemie*, **2016**, 128, 6527-6532	3.6	5
74	Aurone synthase is a catechol oxidase with hydroxylase activity and provides insights into the mechanism of plant polyphenol oxidases. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E1806-15	11.5	78
73	Photoreduction of Terrigenous Fe-Humic Substances Leads to Bioavailable Iron in Oceans. *Angewandte Chemie - International Edition*, **2016**, 55, 6417-22	16.4	22
72	X-ray Structure Analysis of Indazolium trans-[Tetrachlorobis(1H-indazole)ruthenate(III)] (KP1019) Bound to Human Serum Albumin Reveals Two Ruthenium Binding Sites and Provides Insights into the Drug Binding Mechanism. *Journal of Medicinal Chemistry*, **2016**, 59, 5894-903	8.3	86
71	In situ formation of the first proteinogenically functionalized [TeWOO(Glu)] structure reveals unprecedented chemical and geometrical features of the Anderson-type cluster. *Chemical Communications*, **2016**, 52, 12286-12289	5.8	42
70	Crystallization and preliminary crystallographic analysis of latent, active and recombinantly expressed aurone synthase, a polyphenol oxidase, from Coreopsis grandiflora. *Acta Crystallographica Section F, Structural Biology Communications*, **2015**, 71, 746-51	1.1	24
69	Latent and active aurone synthase from petals of C. grandiflora: a polyphenol oxidase with unique characteristics. *Planta*, **2015**, 242, 519-37	4.7	47
68	The use of polyoxometalates in protein crystallography - An attempt to widen a well-known bottleneck. *Coordination Chemistry Reviews*, **2015**, 299, 22-38	23.2	170
67	Complexes of N-hydroxyethyl-N-benzimidazolylmethylethylenediaminediacetic acid with group 12 metals and vanadium-Synthesis, structure and bioactivity of the vanadium complex. *Journal of Inorganic Biochemistry*, **2015**, 147, 147-52	4.2	13
66	Hen egg-white lysozyme crystallisation: protein stacking and structure stability enhanced by a Tellurium(VI)-centred polyoxotungstate. *ChemBioChem*, **2015**, 16, 233-41	3.8	62

65	The Synthesis and Characterization of Aromatic Hybrid Anderson-Evans POMs and their Serum Albumin Interactions: The Shift from Polar to Hydrophobic Interactions. *Chemistry - A European Journal*, **2015**, 21, 17800-7	4.8	24
64	Heteropentanuclear Oxalato-Bridged nd-4f (n=4, 5) Metal Complexes with NO Ligand: Synthesis, Crystal Structures, Aqueous Stability and Antiproliferative Activity. *Chemistry - A European Journal*, **2015**, 21, 13703-13	4.8	12
63	Kristallstruktur einer pflanzlichen Tyrosinase aus Walnussbl□tern: die Bedeutung □substratlenkender Aminos□rereste□ f□ die Enzymspezifit□t. *Angewandte Chemie*, **2015**, 127, 14889-14893	3.6	22
62	The Structure of a Plant Tyrosinase from Walnut Leaves Reveals the Importance of "Substrate-Guiding Residues" for Enzymatic Specificity. *Angewandte Chemie - International Edition*, **2015**, 54, 14677-80	16.4	75
61	Fungal Tyrosinases: Why Mushrooms Turn Brown **2015**,		6
60	Site-directed mutagenesis around the CuA site of a polyphenol oxidase from Coreopsis grandiflora (cgAUS1). *FEBS Letters*, **2015**, 589, 789-97	3.8	14
59	Tris-functionalized hybrid Anderson polyoxometalates: synthesis, characterization, hydrolytic stability and inversion of protein surface charge. *Chemistry - A European Journal*, **2015**, 21, 4762-71	4.8	41
58	Purification and characterization of tyrosinase from walnut leaves (Juglans regia). *Phytochemistry*, **2014**, 101, 5-15	4	61
57	Latent and active abPPO4 mushroom tyrosinase cocrystallized with hexatungstotellurate(VI) in a single crystal. *Acta Crystallographica Section D: Biological Crystallography*, **2014**, 70, 2301-15		95
56	Complexes of N-hydroxyethyl-N-benzimidazolylmethylethylenediaminediacetic acid with copper(II) and cobalt(II): Preparation, crystal structure and urease inhibitory activity. *Inorganica Chimica Acta*, **2014**, 421, 423-426	2.7	16
55	Dihydroflavonol 4-reductase genes encode enzymes with contrasting substrate specificity and show divergent gene expression profiles in Fragaria species. *PLoS ONE*, **2014**, 9, e112707	3.7	29
54	Crystallization and preliminary X-ray crystallographic analysis of latent isoform PPO4 mushroom (Agaricus bisporus) tyrosinase. *Acta Crystallographica Section F, Structural Biology Communications*, **2014**, 70, 263-6	1.1	54
53	Cloning and functional expression in E. coli of a polyphenol oxidase transcript from Coreopsis grandiflora involved in aurone formation. *FEBS Letters*, **2014**, 588, 3417-26	3.8	42
52	Type-3 copper proteins: recent advances on polyphenol oxidases. *Advances in Protein Chemistry and Structural Biology*, **2014**, 97, 1-35	5.3	35
51	Crystallization and preliminary X-ray crystallographic analysis of polyphenol oxidase from Juglans regia (jrPPO1). *Acta Crystallographica Section F, Structural Biology Communications*, **2014**, 70, 832-4	1.1	17
50	High level protein-purification allows the unambiguous polypeptide determination of latent isoform PPO4 of mushroom tyrosinase. *Phytochemistry*, **2014**, 99, 14-25	4	37
49	Isolation of dihydroflavonol 4-reductase cDNA clones from Angelonia x angustifolia and heterologous expression as GST fusion protein in Escherichia coli. *PLoS ONE*, **2014**, 9, e107755	3.7	16
48	The use of X-ray absorption and synchrotron based micro-X-ray fluorescence spectroscopy to investigate anti-cancer metal compounds in vivo and in vitro. *Metallomics*, **2013**, 5, 597-614	4.5	55

47	X-ray absorption near edge structure spectroscopy to resolve the in vivo chemistry of the redox-active indazolium trans-[Tetrachlorobis(1H-indazole)ruthenate(III)] (KP1019). *Journal of Medicinal Chemistry*, **2013**, 56, 1182-96	8.3	46
46	Synthesis and structure of mononuclear Cu(II) complexes containing bis(1-methylimidazol-2-yl)ketone ligands. *Inorganica Chimica Acta*, **2013**, 406, 184-189	2.7	
45	X-ray absorption spectroscopy: a tool to investigate the local structure of metal-based anticancer compounds in vivo. *Advances in Protein Chemistry and Structural Biology*, **2013**, 93, 257-305	5.3	14
44	Purification and spectroscopic studies on catechol oxidase from lemon balm (Melissa officinalis). *Phytochemistry*, **2012**, 81, 19-23	4	8
43	X-ray absorption spectroscopy of an investigational anticancer gallium(III) drug: interaction with serum proteins, elemental distribution pattern, and coordination of the compound in tissue. *Journal of Medicinal Chemistry*, **2012**, 55, 5601-13	8.3	29
42	New reduction pathways for ctc-[PtCl2(CH3CO2)2(NH3)(Am)] anticancer prodrugs. *Chemical Communications*, **2010**, 46, 1842-4	5.8	66
41	Reevaluation of the kinetics of polynuclear mimics for manganese catalases. *Inorganic Chemistry*, **2007**, 46, 10864-8	5.1	28
40	Structural, kinetic, and theoretical studies on models of the zinc-containing phosphodiesterase active center: medium-dependent reaction mechanisms. *Chemistry - A European Journal*, **2007**, 13, 9093-106	4.8	46
39	Purification, cloning and characterization of a novel peroxidase isozyme from sweetpotatoes (Ipomoea batatas). *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2007**, 1774, 1422-30	4	10
38	Oxidative switches in functioning of mammalian copper chaperone Cox17. *Biochemical Journal*, **2007**, 408, 139-48	3.8	48
37	Altering the Activity of Catechol Oxidase Model Compounds by Electronic Influence on the Copper Core. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2006**, 632, 1057-1066	1.3	32
36	Structure-function relationships of purple acid phosphatase from red kidney beans based on heterologously expressed mutants. *Archives of Biochemistry and Biophysics*, **2005**, 440, 38-45	4.1	15
35	Cytotoxic effects of novel polyoxotungstates and a platinum compound on human cancer cell lines. *Anti-Cancer Drugs*, **2005**, 16, 101-6	2.4	32
34	Highly Efficient Disproportionation of Dihydrogen Peroxide: Synthesis, Structure, and Catalase Activity of Manganese Complexes of the Salicylimidate Ligand. *European Journal of Inorganic Chemistry*, **2005**, 2005, 305-313	2.3	23
33	Water oxidation catalyzed by a dinuclear Mn complex: a functional model for the oxygen-evolving center of photosystem II. *Angewandte Chemie - International Edition*, **2005**, 44, 6916-20	16.4	187
32	Less symmetrical dicopper(II) complexes as catechol oxidase models--an adjacent thioether group increases catecholase activity. *Chemistry - A European Journal*, **2005**, 11, 1201-9	4.8	110
31	N-Methyl-N-(2-pyridiniomethyl)-2-[N-(2-pyridiniomethyl)methylamino]-N-(2-pyridylmethyl)ethanaminium tris(perchlorate). *Acta Crystallographica Section E: Structure Reports Online*, **2004**, 60, o1987-o1988		
30	Bis(2,2?:6?,2??-terpyridyl-κ3N)manganese(II) dinitrate dihydrate. *Acta Crystallographica Section E: Structure Reports Online*, **2004**, 60, m1759-m1760		9

29	Tuning the Catalase Activity of Dinuclear Manganese Complexes by Utilizing Different Substituted Tripodal Ligands. *European Journal of Inorganic Chemistry*, **2004**, 2004, 879-887	2.3	34
28	Mimicking the reduced, oxidized and azide inhibited form of manganese superoxide dismutase by mononuclear Mn compounds utilizing tridentate ligands. *Inorganica Chimica Acta*, **2004**, 357, 1695-1702	2.7	10
27	Mononuclear manganese(III) catechol compounds as substrate adduct complexes for manganese-substituted intradiol cleaving catechol dioxygenases. *Inorganica Chimica Acta*, **2004**, 357, 2703-2712	2.7	16
26	Five manganese(II) complexes with seven- or eight-coordinated Mn(II), revealing different coordination modes for the nitrato ligands. *Inorganica Chimica Acta*, **2004**, 357, 3295-3303	2.7	21
25	Unique example of flexible phenol coordination in mononuclear manganese compounds. *Dalton Transactions*, **2004**, 1474-80	4.3	12
24	Porcine purple acid phosphatase: heterologous expression, characterization, and proteolytic analysis. *Archives of Biochemistry and Biophysics*, **2004**, 432, 25-36	4.1	7
23	Catalytic oxidation of 3,5-Di-tert-butylcatechol by a series of mononuclear manganese complexes: synthesis, structure, and kinetic investigation. *Inorganic Chemistry*, **2003**, 42, 6274-83	5.1	106
22	Synthesis and Characterization of [Mn3(ppi)2(□OAc)4(H2O)2] □2MeOH □Unusual Structural Properties of a Trinuclear Oxygen-Rich Manganese Complex. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2003**, 629, 24-28	1.3	12
21	A Tetranuclear Manganese Cluster with a Star-Shaped Mn4O6 Core Motif: Directed Synthesis using a Mononuclear Precursor Complex. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2002**, 628, 2458-2462	1.3	13
20	Ni(II) complexes as models for inhibited urease. *Inorganica Chimica Acta*, **2002**, 340, 181-186	2.7	28
19	Preparation of highly efficient manganese catalase mimics. *Inorganic Chemistry*, **2002**, 41, 5544-54	5.1	141
18	Counting the number of disulfides and thiol groups in proteins and a novel approach for determining the local pKa for cysteine groups in proteins in vivo. *Journal of Synchrotron Radiation*, **2001**, 8, 1056-8	2.4	8
17	S K- and Mo L-edge X-ray absorption spectroscopy to determine metal-ligand charge distribution in molybdenum-sulfur compounds. *Journal of Synchrotron Radiation*, **2001**, 8, 1006-8	2.4	5
16	Synthesis of a novel □acetate bridged dinuclear Cu(II) complex as model compound for the active site of tyrosinase: crystal structure, magnetic properties and catecholase activity. *Inorganic Chemistry Communication*, **2001**, 4, 753-756	3.1	24
15	Isozymes of Ipomoea batatas catechol oxidase differ in catalase-like activity. *BBA - Proteins and Proteomics*, **2001**, 1548, 94-105		21
14	Ca(2+) function in photosynthetic oxygen evolution studied by alkali metal cations substitution. *Biophysical Journal*, **2001**, 81, 1831-40	2.9	30
13	Structural Change of the Mn Cluster during the S-□S State Transition of the Oxygen-Evolving Complex of Photosystem II. Does It Reflect the Onset of Water/Substrate Oxidation? Determination by Mn X-ray Absorption Spectroscopy. *Journal of the American Chemical Society*, **2000**, 122, 3399-3412	16.4	149
12	Proximity of calcium to the manganese cluster of the photosynthetic oxygen-evolving complex determined from strontium XAFS. *Journal of Synchrotron Radiation*, **1999**, 6, 419-20	2.4	10

11	Purification and spectroscopic studies on catechol oxidases from Lycopus europaeus and Populus nigra: evidence for a dinuclear copper center of type 3 and spectroscopic similarities to tyrosinase and hemocyanin. *Journal of Biological Inorganic Chemistry*, **1999**, 4, 56-63	3.7	109
10	Substrate specificity of catechol oxidase from Lycopus europaeus and characterization of the bioproducts of enzymic caffeic acid oxidation. *FEBS Letters*, **1999**, 445, 103-10	3.8	65
9	Strontium EXAFS Reveals the Proximity of Calcium to the Manganese Cluster of Oxygen-Evolving Photosystem II. *Journal of Physical Chemistry B*, **1998**, 102, 8248-8256	3.4	110
8	Sulfur K-edge x-ray absorption spectroscopy: a spectroscopic tool to examine the redox state of S-containing metabolites in vivo. *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 6122-7	11.5	83
7	Chlorine K-Edge X-ray Absorption Spectroscopy as a Probe of Chlorine−Manganese Bonding: Model Systems with Relevance to the Oxygen Evolving Complex in Photosystem II *Journal of the American Chemical Society*, **1997**, 119, 4465-4470	16.4	30
6	Oxidation states of the manganese cluster during the flash-induced S-state cycle of the photosynthetic oxygen-evolving complex. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 3335-40	11.5	181
5	Recent Advances Toward A Structural Model for the Photosynthetic Oxygen-Evolving Manganese Cluster **1996**, 141-148		3
4	Photosynthesis water oxidation: Structural insights to the catalytic manganese complex. *Physica B: Condensed Matter*, **1995**, 208-209, 657-659	2.8	4
3	Spectroscopic and exafs studies on catechol oxidases with dinuclear copper centers of type 3: Evidence for μ2:η2-peroxo-intermediates during the reaction with catechol. *Journal of Inorganic Biochemistry*, **1995**, 59, 715	4.2	39
2	A simple in-hutch mirror assembly for x-ray harmonic suppression. *Review of Scientific Instruments*, **1995**, 66, 1843-1845	1.7	7
1	Lanthanides Singing the Blues: Their Fascinating Role in the Assembly of Gigantic Molybdenum Blue Wheels. *ACS Nanoscience Au*,		1