

# Annette Rompel

## List of Publications by Citations

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154  
papers

5,104  
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38  
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66  
g-index

163  
ext. papers

6,093  
ext. citations

6.3  
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6.45  
L-index

#	Paper	IF	Citations
154	Polyoxometalates as Potential Next-Generation Metallo drugs in the Combat Against Cancer. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 2980-2999	16.4	232
153	Synthesis, structures and applications of electron-rich polyoxometalates. <i>Nature Reviews Chemistry</i> , <b>2018</b> , 2,	34.6	212
152	The AndersonEvans polyoxometalate: From inorganic building blocks via hybrid organicinorganic structures to tomorrows Bio-POM. <i>Coordination Chemistry Reviews</i> , <b>2016</b> , 307, 42-64	23.2	197
151	The antibacterial activity of polyoxometalates: structures, antibiotic effects and future perspectives. <i>Chemical Communications</i> , <b>2018</b> , 54, 1153-1169	5.8	196
150	Water oxidation catalyzed by a dinuclear Mn complex: a functional model for the oxygen-evolving center of photosystem II. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 6916-20	16.4	187
149	Oxidation states of the manganese cluster during the flash-induced S-state cycle of the photosynthetic oxygen-evolving complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1996</b> , 93, 3335-40	11.5	181
148	The use of polyoxometalates in protein crystallography - An attempt to widen a well-known bottleneck. <i>Coordination Chemistry Reviews</i> , <b>2015</b> , 299, 22-38	23.2	170
147	Structural Change of the Mn Cluster during the S <sub>2</sub> 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. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 3399-3412	16.4	149
146	Preparation of highly efficient manganese catalase mimics. <i>Inorganic Chemistry</i> , <b>2002</b> , 41, 5544-54	5.1	141
145	Less symmetrical dicopper(II) complexes as catechol oxidase models--an adjacent thioether group increases catecholase activity. <i>Chemistry - A European Journal</i> , <b>2005</b> , 11, 1201-9	4.8	110
144	Strontium EXAFS Reveals the Proximity of Calcium to the Manganese Cluster of Oxygen-Evolving Photosystem II. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 8248-8256	3.4	110
143	Purification and spectroscopic studies on catechol oxidases from <i>Lycopus europaeus</i> and <i>Populus nigra</i> : evidence for a dinuclear copper center of type 3 and spectroscopic similarities to tyrosinase and hemocyanin. <i>Journal of Biological Inorganic Chemistry</i> , <b>1999</b> , 4, 56-63	3.7	109
142	Catalytic oxidation of 3,5-Di-tert-butylcatechol by a series of mononuclear manganese complexes: synthesis, structure, and kinetic investigation. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 6274-83	5.1	106
141	Latent and active abPPO4 mushroom tyrosinase cocrystallized with hexatungstotellurate(VI) in a single crystal. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2014</b> , 70, 2301-15		95
140	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. <i>Journal of Medicinal Chemistry</i> , <b>2016</b> , 59, 5894-903	8.3	86
139	Sulfur K-edge x-ray absorption spectroscopy: a spectroscopic tool to examine the redox state of S-containing metabolites in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 6122-7	11.5	83
138	Aurone synthase is a catechol oxidase with hydroxylase activity and provides insights into the mechanism of plant polyphenol oxidases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E1806-15	11.5	78

137	The Structure of a Plant Tyrosinase from Walnut Leaves Reveals the Importance of "Substrate-Guiding Residues" for Enzymatic Specificity. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 14677-80	16.4	75
136	Polyoxometalates in solution: speciation under spotlight. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 7568-7601	58.5	74
135	Ten Good Reasons for the Use of the Tellurium-Centered Anderson-Evans Polyoxotungstate in Protein Crystallography. <i>Accounts of Chemical Research</i> , <b>2017</b> , 50, 1441-1448	24.3	70
134	Production, characterization and adsorption studies of bamboo-based biochar/montmorillonite composite for nitrate removal. <i>Waste Management</i> , <b>2018</b> , 79, 385-394	8.6	69
133	Heterologous expression and characterization of functional mushroom tyrosinase (AbPPO4). <i>Scientific Reports</i> , <b>2017</b> , 7, 1810	4.9	66
132	New reduction pathways for ctc-[PtCl <sub>2</sub> (CH <sub>3</sub> CO <sub>2</sub> ) <sub>2</sub> (NH <sub>3</sub> )(Am)] anticancer prodrugs. <i>Chemical Communications</i> , <b>2010</b> , 46, 1842-4	5.8	66
131	Substrate specificity of catechol oxidase from <i>Lycopus europaeus</i> and characterization of the bioproducts of enzymic caffeic acid oxidation. <i>FEBS Letters</i> , <b>1999</b> , 445, 103-10	3.8	65
130	Hen egg-white lysozyme crystallisation: protein stacking and structure stability enhanced by a Tellurium(VI)-centred polyoxotungstate. <i>ChemBioChem</i> , <b>2015</b> , 16, 233-41	3.8	62
129	Purification and characterization of tyrosinase from walnut leaves ( <i>Juglans regia</i> ). <i>Phytochemistry</i> , <b>2014</b> , 101, 5-15	4	61
128	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. <i>Metallomics</i> , <b>2013</b> , 5, 597-614	4.5	55
127	Crystallization and preliminary X-ray crystallographic analysis of latent isoform PPO4 mushroom ( <i>Agaricus bisporus</i> ) tyrosinase. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , <b>2014</b> , 70, 263-6	1.1	54
126	Oxidative switches in functioning of mammalian copper chaperone Cox17. <i>Biochemical Journal</i> , <b>2007</b> , 408, 139-48	3.8	48
125	Latent and active aurone synthase from petals of <i>C. grandiflora</i> : a polyphenol oxidase with unique characteristics. <i>Planta</i> , <b>2015</b> , 242, 519-37	4.7	47
124	Purification and Characterization of Latent Polyphenol Oxidase from Apricot ( <i>Prunus armeniaca</i> L.). <i>Journal of Agricultural and Food Chemistry</i> , <b>2017</b> , 65, 8203-8212	5.7	47
123	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). <i>Journal of Medicinal Chemistry</i> , <b>2013</b> , 56, 1182-96	8.3	46
122	Structural, kinetic, and theoretical studies on models of the zinc-containing phosphodiesterase active center: medium-dependent reaction mechanisms. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 9093-106	4.8	46
121	Cloning and functional expression in <i>E. coli</i> of a polyphenol oxidase transcript from <i>Coreopsis grandiflora</i> involved in aurone formation. <i>FEBS Letters</i> , <b>2014</b> , 588, 3417-26	3.8	42
120	In situ formation of the first proteinogenically functionalized [TeWOO(Glu)] structure reveals unprecedented chemical and geometrical features of the Anderson-type cluster. <i>Chemical Communications</i> , <b>2016</b> , 52, 12286-12289	5.8	42

119	Tris-functionalized hybrid Anderson polyoxometalates: synthesis, characterization, hydrolytic stability and inversion of protein surface charge. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 4762-71	4.8	41
118	Im Kampf gegen Krebs: Polyoxometallate als nächste Generation metallhaltiger Medikamente. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 3008-3029	3.6	39
117	Spectroscopic and exafs studies on catechol oxidases with dinuclear copper centers of type 3: Evidence for $\mu_2$ -peroxy-intermediates during the reaction with catechol. <i>Journal of Inorganic Biochemistry</i> , <b>1995</b> , 59, 715	4.2	39
116	High level protein-purification allows the unambiguous polypeptide determination of latent isoform PPO4 of mushroom tyrosinase. <i>Phytochemistry</i> , <b>2014</b> , 99, 14-25	4	37
115	Three recombinantly expressed apple tyrosinases suggest the amino acids responsible for mono- versus diphenolase activity in plant polyphenol oxidases. <i>Scientific Reports</i> , <b>2017</b> , 7, 8860	4.9	35
114	Type-3 copper proteins: recent advances on polyphenol oxidases. <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2014</b> , 97, 1-35	5.3	35
113	Tuning the Catalase Activity of Dinuclear Manganese Complexes by Utilizing Different Substituted Tripodal Ligands. <i>European Journal of Inorganic Chemistry</i> , <b>2004</b> , 2004, 879-887	2.3	34
112	Altering the Activity of Catechol Oxidase Model Compounds by Electronic Influence on the Copper Core. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2006</b> , 632, 1057-1066	1.3	32
111	Cytotoxic effects of novel polyoxotungstates and a platinum compound on human cancer cell lines. <i>Anti-Cancer Drugs</i> , <b>2005</b> , 16, 101-6	2.4	32
110	What causes the different functionality in type-III-copper enzymes? A state of the art perspective. <i>Inorganica Chimica Acta</i> , <b>2018</b> , 481, 25-31	2.7	31
109	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. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 4465-4470	16.4	30
108	Ca(2+) function in photosynthetic oxygen evolution studied by alkali metal cations substitution. <i>Biophysical Journal</i> , <b>2001</b> , 81, 1831-40	2.9	30
107	Polyoxovanadates with emerging biomedical activities. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 447, 214143	3.2	30
106	Dihydroflavonol 4-reductase genes encode enzymes with contrasting substrate specificity and show divergent gene expression profiles in <i>Fragaria</i> species. <i>PLoS ONE</i> , <b>2014</b> , 9, e112707	3.7	29
105	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. <i>Journal of Medicinal Chemistry</i> , <b>2012</b> , 55, 5601-13	8.3	29
104	Polymerizing Like Mussels Do: Toward Synthetic Mussel Foot Proteins and Resistant Glues. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 15728-15732	16.4	29
103	[Ni(OH)3W6O18(OCH2)3CCH2OH](4-): the first tris-functionalized Anderson-type heteropolytungstate. <i>Chemical Communications</i> , <b>2016</b> , 52, 9263-6	5.8	28
102	Recent progress in synthesis and characterization of metal chalcone complexes and their potential as bioactive agents. <i>Coordination Chemistry Reviews</i> , <b>2018</b> , 374, 497-524	23.2	28

101	Reevaluation of the kinetics of polynuclear mimics for manganese catalases. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 10864-8	5.1	28
100	Ni(II) complexes as models for inhibited urease. <i>Inorganica Chimica Acta</i> , <b>2002</b> , 340, 181-186	2.7	28
99	The P-type ATPase inhibiting potential of polyoxotungstates. <i>Metallomics</i> , <b>2018</b> , 10, 287-295	4.5	27
98	The potential of hexatungstotellurate(VI) to induce a significant entropic gain during protein crystallization. <i>IUCrJ</i> , <b>2017</b> , 4, 734-740	4.7	27
97	Polyoxometalates: more than a phasing tool in protein crystallography. <i>ChemTexts</i> , <b>2018</b> , 4, 10	2.2	26
96	Biochemical and structural characterization of tomato polyphenol oxidases provide novel insights into their substrate specificity. <i>Scientific Reports</i> , <b>2019</b> , 9, 4022	4.9	24
95	Crystallization and preliminary crystallographic analysis of latent, active and recombinantly expressed aurone synthase, a polyphenol oxidase, from <i>Coreopsis grandiflora</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , <b>2015</b> , 71, 746-51	1.1	24
94	The Synthesis and Characterization of Aromatic Hybrid Anderson-Evans POMs and their Serum Albumin Interactions: The Shift from Polar to Hydrophobic Interactions. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 17800-7	4.8	24
93	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. <i>Inorganic Chemistry Communication</i> , <b>2001</b> , 4, 753-756	3.1	24
92	Inhibition of Na/K- and Ca-ATPase activities by phosphotetradecavanadate. <i>Journal of Inorganic Biochemistry</i> , <b>2019</b> , 197, 110700	4.2	23
91	Highly Efficient Disproportionation of Dihydrogen Peroxide: Synthesis, Structure, and Catalase Activity of Manganese Complexes of the Salicylimidate Ligand. <i>European Journal of Inorganic Chemistry</i> , <b>2005</b> , 2005, 305-313	2.3	23
90	Kristallstruktur einer pflanzlichen Tyrosinase aus Walnussblättern: die Bedeutung Substratlenkender Aminosäurereste für die Enzymspezifität. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 14889-14893	3.6	22
89	Photoreduction of Terrestrial Fe-Humic Substances Leads to Bioavailable Iron in Oceans. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 6417-22	16.4	22
88	Electronic State of Sodium trans-[Tetrachloridobis(1H-indazole)ruthenate(III)] (NKP-1339) in Tumor, Liver and Kidney Tissue of a SW480-bearing Mouse. <i>Scientific Reports</i> , <b>2017</b> , 7, 40966	4.9	21
87	Five manganese(II) complexes with seven- or eight-coordinated Mn(II), revealing different coordination modes for the nitrato ligands. <i>Inorganica Chimica Acta</i> , <b>2004</b> , 357, 3295-3303	2.7	21
86	Isozymes of Ipomoea batatas catechol oxidase differ in catalase-like activity. <i>BBA - Proteins and Proteomics</i> , <b>2001</b> , 1548, 94-105		21
85	Antibacterial Activity of Polyoxometalates Against. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 336	5	20
84	Synthesis and Characterization of the First Nickel(II)-Centered Single-Side Tris-Functionalized Anderson-Type Polyoxomolybdate. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 5507-5511	2.3	19

83	The Aquaporin-3-Inhibiting Potential of Polyoxotungstates. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	18
82	Toward Artificial Mussel-Glue Proteins: Differentiating Sequence Modules for Adhesion and Switchable Cohesion. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 18495-18499	16.4	17
81	Crystallization and preliminary X-ray crystallographic analysis of polyphenol oxidase from Juglans regia (jrPPO1). <i>Acta Crystallographica Section F, Structural Biology Communications</i> , <b>2014</b> , 70, 832-4	1.1	17
80	A Peptide-Induced Self-Cleavage Reaction Initiates the Activation of Tyrosinase. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 7475-7479	16.4	16
79	Complexes of N-hydroxyethyl-N-benzimidazolylmethylethylenediaminediacetic acid with copper(II) and cobalt(II): Preparation, crystal structure and urease inhibitory activity. <i>Inorganica Chimica Acta</i> , <b>2014</b> , 421, 423-426	2.7	16
78	Mononuclear manganese(III) catechol compounds as substrate adduct complexes for manganese-substituted intradiol cleaving catechol dioxygenases. <i>Inorganica Chimica Acta</i> , <b>2004</b> , 357, 2703-2712	2.7	16
77	Isolation of dihydroflavonol 4-reductase cDNA clones from <i>Angelonia x angustifolia</i> and heterologous expression as GST fusion protein in <i>Escherichia coli</i> . <i>PLoS ONE</i> , <b>2014</b> , 9, e107755	3.7	16
76	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. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 3336-3339	16.4	15
75	Synthesis, characterization, and antioxidant activity of Zn and Cu coordinated polyhydroxychalcone complexes. <i>Monatshefte für Chemie</i> , <b>2016</b> , 147, 1871-1881	1.4	15
74	Structure-function relationships of purple acid phosphatase from red kidney beans based on heterologously expressed mutants. <i>Archives of Biochemistry and Biophysics</i> , <b>2005</b> , 440, 38-45	4.1	15
73	Synthesis, structure, and antioxidant activity of methoxy- and hydroxyl-substituted 2'-aminochalcones. <i>Monatshefte für Chemie</i> , <b>2016</b> , 147, 1747-1757	1.4	14
72	Site-directed mutagenesis around the CuA site of a polyphenol oxidase from <i>Coreopsis grandiflora</i> (cgAUS1). <i>FEBS Letters</i> , <b>2015</b> , 589, 789-97	3.8	14
71	X-ray absorption spectroscopy: a tool to investigate the local structure of metal-based anticancer compounds in vivo. <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2013</b> , 93, 257-305	5.3	14
70	Transport of organic substances through the cytoplasmic membrane of cyanobacteria. <i>Phytochemistry</i> , <b>2019</b> , 157, 206-218	4	14
69	Inhibition of apricot polyphenol oxidase by combinations of plant proteases and ascorbic acid. <i>Food Chemistry: X</i> , <b>2019</b> , 4, 100053	4.7	13
68	Complexes of N-hydroxyethyl-N-benzimidazolylmethylethylenediaminediacetic acid with group 12 metals and vanadium-Synthesis, structure and bioactivity of the vanadium complex. <i>Journal of Inorganic Biochemistry</i> , <b>2015</b> , 147, 147-52	4.2	13
67	Total Synthesis, Stereochemical Assignment, and Divergent Enantioselective Enzymatic Recognition of Larreatricin. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 15756-15760	4.8	13
66	A Tetranuclear Manganese Cluster with a Star-Shaped Mn <sub>4</sub> O <sub>6</sub> Core Motif: Directed Synthesis using a Mononuclear Precursor Complex. <i>Zeitschrift für Anorganische Und Allgemeine Chemie</i> , <b>2002</b> , 628, 2458-2462	1.3	13

65	Successful amphiphiles as the key to crystallization of membrane proteins: Bridging theory and practice. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2019</b> , 1863, 437-455	4	13
64	The crystallization additive hexatungstotellurate promotes the crystallization of the HSP70 nucleotide binding domain into two different crystal forms. <i>PLoS ONE</i> , <b>2018</b> , 13, e0199639	3.7	12
63	Heteropentanuclear Oxalato-Bridged nd-4f (n=4, 5) Metal Complexes with NO Ligand: Synthesis, Crystal Structures, Aqueous Stability and Antiproliferative Activity. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 13703-13	4.8	12
62	Unique example of flexible phenol coordination in mononuclear manganese compounds. <i>Dalton Transactions</i> , <b>2004</b> , 1474-80	4.3	12
61	Synthesis and Characterization of [Mn <sub>3</sub> (ppi) <sub>2</sub> (EDAc) <sub>4</sub> (H <sub>2</sub> O) <sub>2</sub> ] · 2MeOH · Unusual Structural Properties of a Trinuclear Oxygen-Rich Manganese Complex. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2003</b> , 629, 24-28	1.3	12
60	Polyoxidovanadates' interactions with proteins: An overview. <i>Coordination Chemistry Reviews</i> , <b>2022</b> , 454, 214344	23.2	12
59	Direct Single- and Double-Side Triol-Functionalization of the Mixed Type Anderson Polyoxotungstate [Cr(OH)WO]. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 106-113	5.1	12
58	Conversion of walnut tyrosinase into a catechol oxidase by site directed mutagenesis. <i>Scientific Reports</i> , <b>2020</b> , 10, 1659	4.9	11
57	In crystallo activity tests with latent apple tyrosinase and two mutants reveal the importance of the mutated sites for polyphenol oxidase activity. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , <b>2017</b> , 73, 491-499	1.1	11
56	Purification, cloning and characterization of a novel peroxidase isozyme from sweetpotatoes ( <i>Ipomoea batatas</i> ). <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2007</b> , 1774, 1422-30	4	10
55	Mimicking the reduced, oxidized and azide inhibited form of manganese superoxide dismutase by mononuclear Mn compounds utilizing tridentate ligands. <i>Inorganica Chimica Acta</i> , <b>2004</b> , 357, 1695-1702	2.7	10
54	Proximity of calcium to the manganese cluster of the photosynthetic oxygen-evolving complex determined from strontium XAFS. <i>Journal of Synchrotron Radiation</i> , <b>1999</b> , 6, 419-20	2.4	10
53	Interweaving Disciplines to Advance Chemistry: Applying Polyoxometalates in Biology. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 6109-6114	5.1	10
52	Tuning the interactions of decavanadate with thaumatin, lysozyme, proteinase K and human serum proteins by its coordination to a penta-aquacobalt(II) complex cation. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 17863-17871	3.6	10
51	Transition metal-substituted Keggin polyoxotungstates enabling covalent attachment to proteinase K upon co-crystallization. <i>Chemical Communications</i> , <b>2019</b> , 55, 11519-11522	5.8	9
50	Keggin-type polyoxotungstates as mushroom tyrosinase inhibitors - A speciation study. <i>Scientific Reports</i> , <b>2019</b> , 9, 5183	4.9	9
49	Binding of a Fatty Acid-Functionalized Anderson-Type Polyoxometalate to Human Serum Albumin. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 5243-5246	5.1	9
48	Bis(2,2':6',2''-terpyridyl- $\beta$ N)manganese(II) dinitrate dihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2004</b> , 60, m1759-m1760		9

47	Polymerizing Like Mussels Do: Toward Synthetic Mussel Foot Proteins and Resistant Glues. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 15954-15958	3.6	9
46	Purification and spectroscopic studies on catechol oxidase from lemon balm ( <i>Melissa officinalis</i> ). <i>Phytochemistry</i> , <b>2012</b> , 81, 19-23	4	8
45	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. <i>Journal of Synchrotron Radiation</i> , <b>2001</b> , 8, 1056-8	2.4	8
44	Polyphenol oxidases exhibit promiscuous proteolytic activity. <i>Communications Chemistry</i> , <b>2020</b> , 3,	6.3	7
43	Porcine purple acid phosphatase: heterologous expression, characterization, and proteolytic analysis. <i>Archives of Biochemistry and Biophysics</i> , <b>2004</b> , 432, 25-36	4.1	7
42	A simple in-hutch mirror assembly for x-ray harmonic suppression. <i>Review of Scientific Instruments</i> , <b>1995</b> , 66, 1843-1845	1.7	7
41	Synthesis of the first Zn-hexagon sandwich-tungstoantimonate via rearrangement of a non-lacunary Krebs-type polyoxotungstate. <i>Dalton Transactions</i> , <b>2018</b> , 47, 15651-15655	4.3	7
40	Fungal Tyrosinases: Why Mushrooms Turn Brown <b>2015</b> ,		6
39	Cation-Directed Synthetic Strategy Using 4f Tungstoantimonates as Nonlacunary Precursors for the Generation of 3d-4f Clusters. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 8461-8467	5.1	6
38	Identification of Amino Acid Residues Responsible for C-H Activation in Type-III Copper Enzymes by Generating Tyrosinase Activity in a Catechol Oxidase. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 20940-20945	16.4	6
37	Polyphenol Exposure, Metabolism, and Analysis: A Global Exposomics Perspective. <i>Annual Review of Food Science and Technology</i> , <b>2021</b> , 12, 461-484	14.7	6
36	Similar but Still Different: Which Amino Acid Residues Are Responsible for Varying Activities in Type-III Copper Enzymes?. <i>ChemBioChem</i> , <b>2021</b> , 22, 1161-1175	3.8	6
35	Toward Artificial Mussel-Glue Proteins: Differentiating Sequence Modules for Adhesion and Switchable Cohesion. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 18653-18657	3.6	5
34	Identification of the amino acid position controlling the different enzymatic activities in walnut tyrosinase isoenzymes (jrPPO1 and jrPPO2). <i>Scientific Reports</i> , <b>2020</b> , 10, 10813	4.9	5
33	Photoreduction of Terrigenous Fe-Humic Substances Leads to Bioavailable Iron in Oceans. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 6527-6532	3.6	5
32	S K- and Mo L-edge X-ray absorption spectroscopy to determine metal-ligand charge distribution in molybdenum-sulfur compounds. <i>Journal of Synchrotron Radiation</i> , <b>2001</b> , 8, 1006-8	2.4	5
31	Photosynthesis water oxidation: Structural insights to the catalytic manganese complex. <i>Physica B: Condensed Matter</i> , <b>1995</b> , 208-209, 657-659	2.8	4
30	Phosphate-Templated Encapsulation of a {Co O} Cubane in Germanotungstates as Carbon-Free Homogeneous Water Oxidation Photocatalysts. <i>ChemSusChem</i> , <b>2021</b> , 14, 2529-2536	8.3	4



29	Synthesis, characterization, and POM-protein interactions of a Fe-substituted Krebs-type Sandwich-tungstoantimonate. <i>Monatshefte für Chemie</i> , <b>2019</b> , 150, 871-875	1.4	3
28	Eine peptidvermittelte Selbstspaltungsreaktion initiiert die Tyrosinaseaktivierung. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 7553-7557	3.6	3
27	Synthesis and characterization of hybrid Anderson hexamolybdoaluminates(III) functionalized with indometacin or cinnamic acid. <i>Acta Crystallographica Section C, Structural Chemistry</i> , <b>2018</b> , 74, 1378-1383 <sup>0.8</sup>		3
26	Polyphenol oxidase and enzymatic browning in apricot (L.): Effect on phenolic composition and deduction of main substrates.. <i>Current Research in Food Science</i> , <b>2022</b> , 5, 196-206	5.6	3
25	Synthesis, Characterization, and Phosphoesterase Activity of a Series of 4f- and 4d-Sandwich-Type Germanotungstates $[-(\text{CH})\text{N}]\text{H}[(\text{M}(\text{HO}))(\text{EGeWO})]$ (M = Ce, Nd, Gd, Er, = 7; Zr, = 6). <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 14078-14084	5.1	3
24	Aluminum-Substituted Keggin Germanotungstate $[\text{HAl}(\text{HO})\text{GeWO}]$ : Synthesis, Characterization, and Antibacterial Activity. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 28-31	5.1	3
23	Iron(II) and copper(II) paratungstates B: a single-crystal X-ray diffraction study. <i>Acta Crystallographica Section C, Structural Chemistry</i> , <b>2018</b> , 74, 1252-1259	0.8	3
22	Recent Advances Toward A Structural Model for the Photosynthetic Oxygen-Evolving Manganese Cluster <b>1996</b> , 141-148		3
21	Synthesis and characterization of the Anderson-Evans tungstoantimonate $[\text{Na}(\text{HO})\{(\text{HOCH})\text{CHNH}\}][\text{SbWO}]$ . <i>Acta Crystallographica Section C, Structural Chemistry</i> , <b>2021</b> , 77, 420-425 <sup>0.8</sup>		2
20	A Peptide-Induced Self-Cleavage Reaction Initiates the Activation of Tyrosinase <b>2019</b> , 58, 7475		2
19	Synthesis, crystal structure and characterization of two new Cr(III)-substituted polyoxotungstates: $[\text{Cr}((\text{OCH}_2)_3\text{CCH}_2\text{OH})_2\text{W}_6\text{O}_{18}]_3$ and $[\text{H}_3\text{Cr}_2\text{W}_{10}\text{O}_{38}(\text{H}_2\text{O})_2]_7$ <i>Polyhedron</i> , <b>2019</b> , 169, 202-208	2.7	1
18	Photoheterotrophic growth of unicellular cyanobacterium <i>Synechocystis</i> sp. PCC 6803 gtr dependent on fructose. <i>Monatshefte für Chemie</i> , <b>2019</b> , 150, 1863-1868	1.4	1
17	Regioselective synthesis and characterization of monovanadium-substituted heptamolybdate $[\text{VMoO}]$ . <i>Acta Crystallographica Section C, Structural Chemistry</i> , <b>2019</b> , 75, 872-876	0.8	1
16	Tyrosinases: Enzymes, Models and Related Applications. <i>Series on Chemistry, Energy and the Environment</i> , <b>2019</b> , 155-183	0.2	1
15	Investigations on the formation of dihydrochalcones in apple ( <i>Malus</i> sp.) leaves. <i>Acta Horticulturae</i> , <b>2019</b> , 415-420	0.3	1
14	Die Erzeugung von Tyrosinaseaktivität in einer Catecholoxidase erlaubt die Identifizierung der für die C-H-Aktivierung in Typ-III-Kupferenzymen verantwortlichen Aminosäurereste. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 21126-21131	3.6	1
13	Defect $\{(WO)W\}$ and Full $\{(WO)W\}$ Pentagonal Units as Synthons for the Generation of Nanosized Main Group V Heteropolyoxotungstates. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 8917-8923	5.1	1
12	Expression, Purification, and Characterization of a Well-Adapted Tyrosinase from Peatlands Identified by Partial Community Analysis. <i>Environmental Science &amp; Technology</i> , <b>2021</b> ,	10.3	1

11	Speciation of Transition-Metal-Substituted Keggin-Type Silicotungstates Affected by the Co-crystallization Conditions with Proteinase K. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 15096-15100	5.1	1
10	Polyoxometalates as Potential Next-Generation Metallodrugs in the Combat Against Cancer <b>2019</b> , 58, 2980		1
9	Polyoxometalates as Potential Next-Generation Metallodrugs in the Combat Against Cancer <b>2019</b> , 58, 2980		1
8	Lanthanides Singing the Blues: Their Fascinating Role in the Assembly of Gigantic Molybdenum Blue Wheels. <i>ACS Nanoscience Au</i> ,		1
7	Quantifying up to 90 polyphenols simultaneously in human bio-fluids by LC-MS/MS. <i>Analytica Chimica Acta</i> , <b>2022</b> , 339977	6.6	1
6	The Smallest Polyoxotungstate Retained by TRIS-Stabilization. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 12671-12675		0
5	Wells-Dawson phosphotungstates as mushroom tyrosinase inhibitors: a speciation study. <i>Scientific Reports</i> , <b>2021</b> , 11, 19354	4.9	0
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3	Synthesis and structure of mononuclear Cu(II) complexes containing bis(1-methylimidazol-2-yl)ketone ligands. <i>Inorganica Chimica Acta</i> , <b>2013</b> , 406, 184-189	2.7	
2	N-Methyl-N-(2-pyridiniomethyl)-2-[N-(2-pyridiniomethyl)methylamino]-N-(2-pyridylmethyl)ethanaminium tris(perchlorate). <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2004</b> , 60, o1987-o1988		
1	Crystal structure of hexa-sodium tetra-serinolum paratungstate B deca-hydrate, [Na{(CHOH)CHNH}][WO(OH)] <sub>4</sub> 10HO.. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , <b>2022</b> , 78, 207-210	0.7	