Annette Rompel

List of Publications by Year
in descending order

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155 papers	7,038 citations	66234 42 h-index	69108 77 g-index
163 all docs	163 docs citations	163 times ranked	5942 citing authors

#	Article	IF	Citations
1	Polyoxometalates as Potential Nextâ€Generation Metallodrugs in the Combat Against Cancer. Angewandte Chemie - International Edition, 2019, 58, 2980-2999.	7.2	403
2	Synthesis, structures and applications of electron-rich polyoxometalates. Nature Reviews Chemistry, 2018, 2, .	13.8	392
3	The antibacterial activity of polyoxometalates: structures, antibiotic effects and future perspectives. Chemical Communications, 2018, 54, 1153-1169.	2.2	294
4	The Andersonâ€“Evans polyoxometalate: From inorganic building blocks via hybrid organicâ€“inorganic structures to tomorrows â€œBio-POMâ€• Coordination Chemistry Reviews, 2016, 307, 42-64.	9.5	259
5	The use of polyoxometalates in protein crystallography â€“ An attempt to widen a well-known bottleneck. Coordination Chemistry Reviews, 2015, 299, 22-38.	9.5	210
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, 3335-3340.	3.3	206
7	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, 6916-6920.	7.2	205
8	Polyoxometalates in solution: speciation under spotlight. Chemical Society Reviews, 2020, 49, 7568-7601.	18.7	204
9	Structural Change of the Mn Cluster during the S2â†’S3 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.	6.6	162
10	Preparation of Highly Efficient Manganese Catalase Mimicsâ€–. Inorganic Chemistry, 2002, 41, 5544-5554.	1.9	153
11	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.	1.2	128
12	Production, characterization and adsorption studies of bamboo-based biochar/montmorillonite composite for nitrate removal. Waste Management, 2018, 79, 385-394.	3.7	126
13	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.	1.1	121
14	Less Symmetrical Dicopper(II) Complexes as Catechol Oxidase Models-An Adjacent Thioether Group Increases Catecholase Activity. Chemistry - A European Journal, 2005, 11, 1201-1209.	1.7	121
15	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.	1.9	117
16	Polyoxovanadates with emerging biomedical activities. Coordination Chemistry Reviews, 2021, 447, 214143.	9.5	115
17	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, 5894-5903.	2.9	113
18	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.	3.3	112

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19	Latent and activeabPPO4 mushroom tyrosinase cocrystallized with hexatungstotellurate(VI) in a single crystal. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 2301-2315.	2.5	109
20	The Structure of a Plant Tyrosinase from Walnut Leaves Reveals the Importance of â€œSubstrateâ€Guiding Residuesâ€•for Enzymatic Specificity. Angewandte Chemie - International Edition, 2015, 54, 14677-14680.	7.2	96
21	Ten Good Reasons for the Use of the Tellurium-Centered Andersonâ€“Evans Polyoxotungstate in Protein Crystallography. Accounts of Chemical Research, 2017, 50, 1441-1448.	7.6	93
22	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, 6122-6127.	3.3	89
23	Heterologous expression and characterization of functional mushroom tyrosinase (AbPPO4). Scientific Reports, 2017, 7, 1810.	1.6	85
24	Polyoxidovanadates' interactions with proteins: An overview. Coordination Chemistry Reviews, 2022, 454, 214344.	9.5	78
25	New reduction pathways for ctc-[PtCl₂(CH₃CO₂)₂(NH₃)(Am)] anticancer prodrugs. Chemical Communications, 2010, 46, 1842-1844.	2.2	76
26	Purification and characterization of tyrosinase from walnut leaves (Juglans regia). Phytochemistry, 2014, 101, 5-15.	1.4	74
27	Substrate specificity of catechol oxidase fromLycopus europaeusand characterization of the bioproducts of enzymic caffeic acid oxidation1. FEBS Letters, 1999, 445, 103-110.	1.3	72
28	Hen Eggâ€White Lysozyme Crystallisation: Protein Stacking and Structure Stability Enhanced by a Tellurium(VI)â€Centred Polyoxotungstate. ChemBioChem, 2015, 16, 233-241.	1.3	72
29	Purification and Characterization of Latent Polyphenol Oxidase from Apricot (Prunus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	2.4	70
30	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.	1.0	63
31	Latent and active aurone synthase from petals of C. grandiflora: a polyphenol oxidase with unique characteristics. Planta, 2015, 242, 519-537.	1.6	62
32	Crystallization and preliminary X-ray crystallographic analysis of latent isoform PPO4 mushroom (Agaricus bisporus)tyrosinase. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 263-266.	0.4	57
33	Cloning and functional expression in E. coli of a polyphenol oxidase transcript from Coreopsis grandiflora involved in aurone formation. FEBS Letters, 2014, 588, 3417-3426.	1.3	54
34	What causes the different functionality in type-III-copper enzymes? A state of the art perspective. Inorganica Chimica Acta, 2018, 481, 25-31.	1.2	53
35	In situ formation of the first proteinogenically functionalized [TeW₆O₂₄O₂(Glu)]^{7â^'} structure reveals unprecedented chemical and geometrical features of the Anderson-type cluster. Chemical Communications, 2016, 52, 12286-12289.	2.2	52
36	Trisâ€Functionalized Hybrid Anderson Polyoxometalates: Synthesis, Characterization, Hydrolytic Stability and Inversion of Protein Surface Charge. Chemistry - A European Journal, 2015, 21, 4762-4771.	1.7	51

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37	Three recombinantly expressed apple tyrosinases suggest the amino acids responsible for mono- versus diphenolase activity in plant polyphenol oxidases. Scientific Reports, 2017, 7, 8860.	1.6	51
38	Oxidative switches in functioning of mammalian copper chaperone Cox17. Biochemical Journal, 2007, 408, 139-148.	1.7	50
39	Structural, Kinetic, and Theoretical Studies on Models of the Zincâ€Containing Phosphodiesterase Active Center: Mediumâ€Dependent Reaction Mechanisms. Chemistry - A European Journal, 2007, 13, 9093-9106.	1.7	49
40	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, 1182-1196.	2.9	49
41	Im Kampf gegen Krebs: Polyoxometallate als nÃchste Generation metallhaltiger Medikamente. Angewandte Chemie, 2019, 131, 3008-3029.	1.6	48
42	Spectroscopic and exafs studies on catechol oxidases with dinuclear copper centers of type 3: Evidence for Î¼-Î·2:Î·2-peroxo-intermediates during the reaction with catechol. Journal of Inorganic Biochemistry, 1995, 59, 715.	1.5	45
43	Type-3 Copper Proteins. Advances in Protein Chemistry and Structural Biology, 2014, 97, 1-35.	1.0	45
44	Dihydroflavonol 4-Reductase Genes Encode Enzymes with Contrasting Substrate Specificity and Show Divergent Gene Expression Profiles in Fragaria Species. PLoS ONE, 2014, 9, e112707.	1.1	43
45	High level protein-purification allows the unambiguous polypeptide determination of latent isoform PPO4 of mushroom tyrosinase. Phytochemistry, 2014, 99, 14-25.	1.4	43
46	Polymerizing Like Mussels Do: Toward Synthetic Mussel Foot Proteins and Resistant Glues. Angewandte Chemie - International Edition, 2018, 57, 15728-15732.	7.2	42
47	Biochemical and structural characterization of tomato polyphenol oxidases provide novel insights into their substrate specificity. Scientific Reports, 2019, 9, 4022.	1.6	40
48	Recent progress in synthesis and characterization of metal chalcone complexes and their potential as bioactive agents. Coordination Chemistry Reviews, 2018, 374, 497-524.	9.5	38
49	Antibacterial Activity of Polyoxometalates Against Moraxella catarrhalis. Frontiers in Chemistry, 2018, 6, 336.	1.8	37
50	Tuning the Catalase Activity of Dinuclear Manganese Complexes by Utilizing Different Substituted Tripodal Ligands. European Journal of Inorganic Chemistry, 2004, 2004, 879-887.	1.0	36
51	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, 5601-5613.	2.9	36
52	Polyoxometalates: more than a phasing tool in protein crystallography. ChemTexts, 2018, 4, 10.	1.0	36
53	Chlorine K-Edge X-ray Absorption Spectroscopy as a Probe of Chlorineâ''Manganese Bonding:Â Model Systems with Relevance to the Oxygen Evolving Complex in Photosystem IIâ€. Journal of the American Chemical Society, 1997, 119, 4465-4470.	6.6	35
54	Ca2+ Function in Photosynthetic Oxygen Evolution Studied by Alkali Metal Cations Substitution. Biophysical Journal, 2001, 81, 1831-1840.	0.2	35

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55	Cytotoxic effects of novel polyoxotungstates and a platinum compound on human cancer cell lines. Anti-Cancer Drugs, 2005, 16, 101-106.	0.7	35
56	The Aquaporin-3-Inhibiting Potential of Polyoxotungstates. International Journal of Molecular Sciences, 2020, 21, 2467.	1.8	35
57	[Ni(OH)3W6O18(OCH2)3CCH2OH]4â^': the first tris-functionalized Anderson-type heteropolytungstate. Chemical Communications, 2016, 52, 9263-9266.	2.2	34
58	The P-type ATPase inhibiting potential of polyoxotungstates. Metallomics, 2018, 10, 287-295.	1.0	34
59	Inhibition of Na+/K+- and Ca2+-ATPase activities by phosphotetradecavanadate. Journal of Inorganic Biochemistry, 2019, 197, 110700.	1.5	34
60	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.	0.6	33
61	Incorporation of Cr^{III} into a Keggin Polyoxometalate as a Chemical Strategy to Stabilize a Labile {Cr^{III}O₄} Tetrahedral Conformation and Promote Unattended Single-Ion Magnet Properties. Journal of the American Chemical Society, 2020, 142, 3336-3339.	6.6	32
62	Interweaving Disciplines to Advance Chemistry: Applying Polyoxometalates in Biology. Inorganic Chemistry, 2021, 60, 6109-6114.	1.9	31
63	Reevaluation of the Kinetics of Polynuclear Mimics for Manganese Catalases. Inorganic Chemistry, 2007, 46, 10864-10868.	1.9	30
64	The potential of hexatungstotellurate(VI) to induce a significant entropic gain during protein crystallization. IUCrJ, 2017, 4, 734-740.	1.0	30
65	A Peptideâ€Induced Selfâ€Cleavage Reaction Initiates the Activation of Tyrosinase. Angewandte Chemie - International Edition, 2019, 58, 7475-7479.	7.2	29
66	Toward Artificial Musselâ€Glue Proteins: Differentiating Sequence Modules for Adhesion and Switchable Cohesion. Angewandte Chemie - International Edition, 2020, 59, 18495-18499.	7.2	29
67	Ni(II) complexes as models for inhibited urease. Inorganica Chimica Acta, 2002, 340, 181-186.	1.2	28
68	Synthesis of a novel Î¼-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.	1.8	26
69	The Synthesis and Characterization of Aromatic Hybrid Andersonâ€"Evans POMs and their Serum Albumin Interactions: The Shift from Polar to Hydrophobic Interactions. Chemistry - A European Journal, 2015, 21, 17800-17807.	1.7	26
70	Crystallization and preliminary crystallographic analysis of latent, active and recombinantly expressed aurone synthase, a polyphenol oxidase, fromCoreopsis grandiflora. Acta Crystallographica Section F, Structural Biology Communications, 2015, 71, 746-751.	0.4	26
71	Isozymes of Ipomoea batatas catechol oxidase differ in catalase-like activity. BBA - Proteins and Proteomics, 2001, 1548, 94-105.	2.1	25
72	Synthesis, characterization, and antioxidant activity of Zn2+ and Cu2+ coordinated polyhydroxychalcone complexes. Monatshefte FÃ¼r Chemie, 2016, 147, 1871-1881.	0.9	25

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73	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.	1.6	25
74	Polyphenol oxidases exhibit promiscuous proteolytic activity. Communications Chemistry, 2020, 3, .	2.0	25
75	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.	1.2	24
76	Photoreduction of Terrigenous Feâ€Humic Substances Leads to Bioavailable Iron in Oceans. Angewandte Chemie - International Edition, 2016, 55, 6417-6422.	7.2	24
77	Synthesis and Characterization of the First Nickel(II)â€Centered Singleâ€Side Trisâ€Functionalized Andersonâ€Type Polyoxomolybdate. European Journal of Inorganic Chemistry, 2016, 2016, 5507-5511.	1.0	24
78	Similar but Still Different: Which Amino Acid Residues Are Responsible for Varying Activities in Typeâ€III Copper Enzymes?. ChemBioChem, 2021, 22, 1161-1175.	1.3	24
79	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.	1.1	24
80	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.	1.0	23
81	Inhibition of apricot polyphenol oxidase by combinations of plant proteases and ascorbic acid. Food Chemistry: X, 2019, 4, 100053.	1.8	23
82	Successful amphiphiles as the key to crystallization of membrane proteins: Bridging theory and practice. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 437-455.	1.1	23
83	Polyphenol oxidase and enzymatic browning in apricot (Prunus armeniaca L.): Effect on phenolic composition and deduction of main substrates. Current Research in Food Science, 2022, 5, 196-206.	2.7	23
84	Conversion of walnut tyrosinase into a catechol oxidase by site directed mutagenesis. Scientific Reports, 2020, 10, 1659.	1.6	22
85	X-Ray Absorption Spectroscopy. Advances in Protein Chemistry and Structural Biology, 2013, 93, 257-305.	1.0	21
86	Transport of organic substances through the cytoplasmic membrane of cyanobacteria. Phytochemistry, 2019, 157, 206-218.	1.4	21
87	Mononuclear manganese(III) catechol compounds as substrate adduct complexes for manganese-substituted intradiol cleaving catechol dioxygenases. Inorganica Chimica Acta, 2004, 357, 2703-2712.	1.2	20
88	Siteâ€directed mutagenesis around the CuA site of a polyphenol oxidase from Coreopsis grandiflora (cgAUS1). FEBS Letters, 2015, 589, 789-797.	1.3	20
89	Synthesis, structure, and antioxidant activity of methoxy- and hydroxyl-substituted 2′-aminochalcones. Monatshefte FÃ¼r Chemie, 2016, 147, 1747-1757.	0.9	20
90	Direct Single- and Double-Side Triol-Functionalization of the Mixed Type Anderson Polyoxotungstate [Cr(OH)₃W₆O₂₁]^{6â€“}. Inorganic Chemistry, 2019, 58, 106-113.	1.9	20

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91	Identification of Amino Acid Residues Responsible for Câ”H Activation in Typeâ€III Copper Enzymes by Generating Tyrosinase Activity in a Catechol Oxidase. Angewandte Chemie - International Edition, 2020, 59, 20940-20945.	7.2	19
92	Crystallization and preliminary X-ray crystallographic analysis of polyphenol oxidase fromJuglans regia(jrPPO1). Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 832-834.	0.4	18
93	The crystallization additive hexatungstotellurate promotes the crystallization of the HSP70 nucleotide binding domain into two different crystal forms. PLoS ONE, 2018, 13, e0199639.	1.1	18
94	Keggin-type polyoxotungstates as mushroom tyrosinase inhibitors - A speciation study. Scientific Reports, 2019, 9, 5183.	1.6	18
95	Binding of a Fatty Acid-Functionalized Anderson-Type Polyoxometalate to Human Serum Albumin. Inorganic Chemistry, 2020, 59, 5243-5246.	1.9	18
96	Aluminum-Substituted Keggin Germanotungstate [HAl(H₂O)GeW₁₁O₃₉]^{4â€“}: Synthesis, Characterization, and Antibacterial Activity. Inorganic Chemistry, 2021, 60, 28-31.	1.9	18
97	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.	1.2	17
98	Polyphenol Exposure, Metabolism, and Analysis: A Global Exposomics Perspective. Annual Review of Food Science and Technology, 2021, 12, 461-484.	5.1	17
99	Total Synthesis, Stereochemical Assignment, and Divergent Enantioselective Enzymatic Recognition of Larreatricin. Chemistry - A European Journal, 2018, 24, 15756-15760.	1.7	16
100	Structureâ€“function relationships of purple acid phosphatase from red kidney beans based on heterologously expressed mutants. Archives of Biochemistry and Biophysics, 2005, 440, 38-45.	1.4	15
101	Complexes of N-hydroxyethyl-N-benzimidazolylmethylethylenediaminediacetic acid with group 12 metals and vanadiumâ€”Synthesis, structure and bioactivity of the vanadium complex. Journal of Inorganic Biochemistry, 2015, 147, 147-152.	1.5	15
102	Proximity of calcium to the manganese cluster of the photosynthetic oxygen-evolving complex determined from strontium XAFS. Journal of Synchrotron Radiation, 1999, 6, 419-420.	1.0	13
103	Heteropentanuclear Oxalatoâ€Bridged ndâ€“4f (n=4, 5) Metal Complexes with NO Ligand: Synthesis, Crystal Structures, Aqueous Stability and Antiproliferative Activity. Chemistry - A European Journal, 2015, 21, 13703-13713.	1.7	13
104	Polymerizing Like Mussels Do: Toward Synthetic Mussel Foot Proteins and Resistant Glues. Angewandte Chemie, 2018, 130, 15954-15958.	1.6	13
105	Tuning the interactions of decavanadate with thaumatin, lysozyme, proteinase K and human serum proteins by its coordination to a pentaaquacobalt(<scp>ii</scp>) complex cation. New Journal of Chemistry, 2019, 43, 17863-17871.	1.4	13
106	Cation-Directed Synthetic Strategy Using 4f Tungstoantimonates as Nonlacunary Precursors for the Generation of 3dâ€“4f Clusters. Inorganic Chemistry, 2020, 59, 8461-8467.	1.9	13
107	In crystalloactivity 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.	0.4	13
108	Quantifying up to 90 polyphenols simultaneously in human bio-fluids by LC-MS/MS. Analytica Chimica Acta, 2022, 1216, 339977.	2.6	13

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109	Unique example of flexible phenol coordination in mononuclear manganese compounds. Dalton Transactions, 2004, , 1474.	1.6	12
110	Purification, cloning and characterization of a novel peroxidase isozyme from sweetpotatoes (Ipomoea batatas). Biochimica Et Biophysica Acta - Proteins and Proteomics, 2007, 1774, 1422-1430.	1.1	12
111	Transition metal-substituted Keggin polyoxotungstates enabling covalent attachment to proteinase K upon co-crystallization. Chemical Communications, 2019, 55, 11519-11522.	2.2	12
112	Porcine purple acid phosphatase: heterologous expression, characterization, and proteolytic analysis. Archives of Biochemistry and Biophysics, 2004, 432, 25-36.	1.4	11
113	Synthesis, Characterization, and Phosphoesterase Activity of a Series of 4f- and 4d-Sandwich-Type Germanotungstates [(n-C₄H₉)₄N]_l/m</sub>H₂[(M(H₂O)<sub> (M = Ce^{III}, Nd^{III}, Gd^{III}, Er^{III}, l = 7;) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.1	11
114	Identification of the amino acid position controlling the different enzymatic activities in walnut tyrosinase isoenzymes (jrPPO1 and jrPPO2). Scientific Reports, 2020, 10, 10813.	1.6	11
115	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.	1.2	10
116	Photoreduction of Terrigenous Feâ€Humic Substances Leads to Bioavailable Iron in Oceans. Angewandte Chemie, 2016, 128, 6527-6532.	1.6	10
117	Phosphateâ€Templated Encapsulation of a {Co^{II}₄O₄} Cubane in Germanotungstates as Carbonâ€Free Homogeneous Water Oxidation Photocatalysts. ChemSusChem, 2021, 14, 2529-2536.	3.6	10
118	Expression, Purification, and Characterization of a Well-Adapted Tyrosinase from Peatlands Identified by Partial Community Analysis. Environmental Science & Technology, 2021, 55, 11445-11454.	4.6	10
119	The Preyssler-Type Polyoxotungstate Exhibits Anti-Quorum Sensing, Antibiofilm, and Antiviral Activities. Biology, 2022, 11, 994.	1.3	10
120	Counting the number of disulfides and thiol groups in proteins and a novel approach for determining the local pKafor cysteine groups in proteinsin vivo. Journal of Synchrotron Radiation, 2001, 8, 1056-1058.	1.0	9
121	Bis(2,2â€²:6â€²,2â€²â€²-terpyridyl-Î°3N)manganese(II) dinitrate dihydrate. Acta Crystallographica Section E: Structure Reports Online, 2004, 60, m1759-m1760.	0.2	9
122	Purification and spectroscopic studies on catechol oxidase from lemon balm (Melissa officinalis). Phytochemistry, 2012, 81, 19-23.	1.4	9
123	A simple inâ€hutch mirror assembly for xâ€ray harmonic suppression. Review of Scientific Instruments, 1995, 66, 1843-1845.	0.6	8
124	Synthesis of the first Zn6-hexagon sandwich-tungstoantimonate via rearrangement of a non-lacunary Krebs-type polyoxotungstate. Dalton Transactions, 2018, 47, 15651-15655.	1.6	8
125	Fungal Tyrosinases: Why Mushrooms Turn Brown. , 2015, , .		7
126	SK- and MoL-edge X-ray absorption spectroscopy to determine metalâ€“ligand charge distribution in molybdenumâ€“sulfur compounds. Journal of Synchrotron Radiation, 2001, 8, 1006-1008.	1.0	6

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127	Toward Artificial Musselâ€€Glue Proteins: Differentiating Sequence Modules for Adhesion and Switchable Cohesion. Angewandte Chemie, 2020, 132, 18653-18657.	1.6	6
128	Lanthanides Singing the Blues: Their Fascinating Role in the Assembly of Gigantic Molybdenum Blue Wheels. ACS Nanoscience Au, 2022, 2, 179-197.	2.0	6
129	Iron(II) and copper(II) paratungstates B: a single-crystal X-ray diffraction study. Acta Crystallographica Section C, Structural Chemistry, 2018, 74, 1252-1259.	0.2	5
130	Defect {(W^{VI}O₇)W^{VI}₄} and Full {(W^{VI}O₇)W^{VI}₅} Pentagonal Units as Synthons for the Generation of Nanosized Main Group V Heteropolyoxotungstates. Inorganic Chemistry, 2021, 60, 8917-8923.	1.9	5
131	Synthesis and characterization of the Andersonâ€“Evans tungstoantimonate [Na₅(H₂O)₁₈{(HOCH₂)₂CHNH₃}₂][SbW₆]. Acta Crystallographica Section C, Structural Chemistry, 2021, 77, 420-425.	0.2	5
132	Photosynthesis water oxidation: Structural insights to the catalytic manganese complex. Physica B: Condensed Matter, 1995, 208-209, 657-659.	1.3	4
133	Synthesis, characterization, and POM-protein interactions of a Fe-substituted Krebs-type Sandwich-tungstoantimonate. Monatshefte FÃ¼r Chemie, 2019, 150, 871-875.	0.9	4
134	Eine peptidvermittelte Selbstspaltungsreaktion initiiert die Tyrosinaseaktivierung. Angewandte Chemie, 2019, 131, 7553-7557.	1.6	4
135	Speciation of Transition-Metal-Substituted Keggin-Type Silicotungstates Affected by the Co-crystallization Conditions with Proteinase K. Inorganic Chemistry, 2021, 60, 15096-15100.	1.9	4
136	Wellsâ€“Dawson phosphotungstates as mushroom tyrosinase inhibitors: a speciation study. Scientific Reports, 2021, 11, 19354.	1.6	4
137	Tyrosinases: Enzymes, Models and Related Applications. Series on Chemistry, Energy and the Environment, 2019, , 155-183.	0.3	4
138	The Smallest Polyoxotungstate Retained by TRIS-Stabilization. Inorganic Chemistry, 2021, 60, 12671-12675.	1.9	3
139	Recent Advances Toward A Structural Model for the Photosynthetic Oxygen-Evolving Manganese Cluster. , 1996, , 141-148.		3
140	Synthesis and characterization of hybrid Anderson hexamolybdoaluminates(III) functionalized with indometacin or cinnamic acid. Acta Crystallographica Section C, Structural Chemistry, 2018, 74, 1378-1383.	0.2	3
141	Regioselective synthesis and characterization of monovanadium-substituted Î²-octamolybdate [VMo₇O₂₆]^{5â^'}. Acta Crystallographica Section C, Structural Chemistry, 2019, 75, 872-876.	0.2	3
142	Photoheterotrophic growth of unicellular cyanobacterium Synechocystis sp. PCC 6803 gtrâ^' dependent on fructose. Monatshefte FÃ¼r Chemie, 2019, 150, 1863-1868.	0.9	2
143	Die Erzeugung von TyrosinaseaktivitÃt in einer Catecholoxidase erlaubt die Identifizierung der fÃ¼r die Câ€Hâ€Aktivierung in Typâ€IIIâ€Kupferenzymen verantwortlichen AminosÃurereste. Angewandte Chemie, 2020, 132, 21126-21131.	1.6	2
144	A Peptide-Induced Self-Cleavage Reaction Initiates the Activation of Tyrosinase. , 2019, 58, 7475.		2

#	Article	IF	Citations
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