## **Gerhard Schenk**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Structureâ€Guided Modulation of the Catalytic Properties of [2Feâ^'2S]â€Dependent Dehydratases. ChemBioChem, 2022, 23, .	1.3	6
2	Biotechnological potential and initial characterization of two novel sesquiterpene synthases from Basidiomycota Coniophora puteana for heterologous production of δ-cadinol. Microbial Cell Factories, 2022, 21, 64.	1.9	9
3	Efficient Green Light Acclimation of the Green Algae Picochlorum sp. Triggering Geranylgeranylated Chlorophylls. Frontiers in Bioengineering and Biotechnology, 2022, 10, 885977.	2.0	4
4	Dihydroxyâ€Acid Dehydratases From Pathogenic Bacteria: Emerging Drug Targets to Combat Antibiotic Resistance. Chemistry - A European Journal, 2022, 28, .	1.7	5
5	Structural basis of resistance to herbicides that target acetohydroxyacid synthase. Nature Communications, 2022, 13, .	5.8	17
6	Recent Advances in Heterogeneous Catalytic Systems Containing Metal Ions for Phosphate Ester Hydrolysis. Chemistry - A European Journal, 2021, 27, 877-887.	1.7	6
7	Discovery of a Pyrimidinedione Derivative with Potent Inhibitory Activity against Mycobacterium tuberculosis Ketol–Acid Reductoisomerase. Chemistry - A European Journal, 2021, 27, 3130-3141.	1.7	10
8	Enhancing the catalytic activity of a GH5 processive endoglucanase from Bacillus subtilis BS-5 by site-directed mutagenesis. International Journal of Biological Macromolecules, 2021, 168, 442-452.	3.6	26
9	Analogues of the Herbicide, <i>N</i> -Hydroxy- <i>N</i> -isopropyloxamate, Inhibit <i>Mycobacterium tuberculosis</i> Ketol-Acid Reductoisomerase and Their Prodrugs Are Promising Anti-TB Drug Leads. Journal of Medicinal Chemistry, 2021, 64, 1670-1684.	2.9	10
10	Metal Affinity Immobilization of the Processive Endoglucanase EG5C-1 from <i>Bacillus subtilis</i> on a Recyclable pH-Responsive Polymer. ACS Sustainable Chemistry and Engineering, 2021, 9, 7948-7959.	3.2	9
11	Kinetic and Structural Characterization of the First B3 Metallo-β-Lactamase with an Active-Site Glutamic Acid. Antimicrobial Agents and Chemotherapy, 2021, 65, e0093621.	1.4	7
12	Rational Design of Potent Inhibitors of a Metallohydrolase Using a Fragmentâ€Based Approach. ChemMedChem, 2021, 16, 3342-3359.	1.6	3
13	Sequence- and structure-guided improvement of the catalytic performance of a GH11 family xylanase from Bacillus subtilis. Journal of Biological Chemistry, 2021, 297, 101262.	1.6	12
14	Pesticide degradation by immobilised metalloenzymes provides an attractive avenue for bioremediation. EFB Bioeconomy Journal, 2021, 1, 100015.	1.1	12
15	Land and sea: Addressing the challenges facing inter-regional ecosystems in developing a sustainable bioeconomy. EFB Bioeconomy Journal, 2021, 1, 100017.	1.1	1
16	LAM-1 from Lysobacter antibioticus: A potent zinc-dependent activity that inactivates β-lactam antibiotics. Journal of Inorganic Biochemistry, 2021, 226, 111637.	1.5	0
17	Functional analysis of the Mn2+ requirement in the catalysis of ureohydrolases arginase and agmatinase - a historical perspective. Journal of Inorganic Biochemistry, 2020, 202, 110812.	1.5	21
18	Polynuclear zinc(II) complexes of thiosemicarbazone: Synthesis, X-ray structure and biological evaluation. Journal of Inorganic Biochemistry, 2020, 203, 110908.	1.5	49

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19	Dinuclear copper(II) complexes with derivative triazine ligands as biomimetic models for catechol oxidases and nucleases. Journal of Inorganic Biochemistry, 2020, 213, 111249.	1.5	8
20	Towards a sustainable generation of pseudopterosin-type bioactives. Green Chemistry, 2020, 22, 6033-6046.	4.6	9
21	Engineering proton conductivity in melanin using metal doping. Journal of Materials Chemistry B, 2020, 8, 8050-8060.	2.9	27
22	Inhibition studies of ketol-acid reductoisomerases from pathogenic microorganisms. Archives of Biochemistry and Biophysics, 2020, 692, 108516.	1.4	8
23	Structure and mechanism of potent bifunctional β-lactam- and homoserine lactone-degrading enzymes from marine microorganisms. Scientific Reports, 2020, 10, 12882.	1.6	13
24	Structures of fungal and plant acetohydroxyacid synthases. Nature, 2020, 586, 317-321.	13.7	37
25	Towards high-throughput optimization of microbial lipid production: from strain development to process monitoring. Sustainable Energy and Fuels, 2020, 4, 5958-5969.	2.5	6
26	Broad spectrum antibiotic-degrading metallo-β-lactamases are phylogenetically diverse. Protein and Cell, 2020, 11, 613-617.	4.8	21
27	Discovery, Synthesis and Evaluation of a Ketolâ€Acid Reductoisomerase Inhibitor. Chemistry - A European Journal, 2020, 26, 8958-8968.	1.7	15
28	Adaptation of a continuous, calorimetric kinetic assay to study the agmatinase-catalyzed hydrolytic reaction. Analytical Biochemistry, 2020, 595, 113618.	1.1	2
29	Structural elements that modulate the substrate specificity of plant purple acid phosphatases: Avenues for improved phosphorus acquisition in crops. Plant Science, 2020, 294, 110445.	1.7	37
30	Effect of Chemically Distinct Substrates on the Mechanism and Reactivity of a Highly Promiscuous Metallohydrolase. ACS Catalysis, 2020, 10, 3684-3696.	5.5	18
31	Enabling the Direct Enzymatic Dehydration of <scp>d</scp> -Glycerate to Pyruvate as the Key Step in Synthetic Enzyme Cascades Used in the Cell-Free Production of Fine Chemicals. ACS Catalysis, 2020, 10, 3110-3118.	5.5	22
32	Engineering Thermostable CYP2D Enzymes for Biocatalysis Using Combinatorial Libraries of Ancestors for Directed Evolution (CLADE). ChemCatChem, 2019, 11, 841-850.	1.8	12
33	Guanidine- and purine-functionalized ligands of FeIIIZnII complexes: effects on the hydrolysis of DNA. Journal of Biological Inorganic Chemistry, 2019, 24, 675-691.	1.1	15
34	Synthesis, evaluation and structural investigations of potent purple acid phosphatase inhibitors as drug leads for osteoporosis. European Journal of Medicinal Chemistry, 2019, 182, 111611.	2.6	9
35	Editorial: Advances in the Development of Artificial Metalloenzymes. Frontiers in Chemistry, 2019, 7, 599.	1.8	2
36	Synthesis and evaluation of novel purple acid phosphatase inhibitors. MedChemComm, 2019, 10, 61-71.	3.5	6

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37	Investigating coordination flexibility of glycerophosphodiesterase (GpdQ) through interactions with mono-, di-, and triphosphoester (NPP, BNPP, GPE, and paraoxon) substrates. Physical Chemistry Chemical Physics, 2019, 21, 5499-5509.	1.3	15
38	The Binding Mode of an ADP Analogue to a Metallohydrolase Mimics the Likely Transition State. ChemBioChem, 2019, 20, 1536-1540.	1.3	16
39	Proteomics Reveals Profound Metabolic Changes in the Alcohol Use Disorder Brain. ACS Chemical Neuroscience, 2019, 10, 2364-2373.	1.7	26
40	Relative catalytic efficiencies and transcript levels of three <scp>d</scp> ―and two <scp>l</scp> â€lactate dehydrogenases for optically pure <scp>d</scp> â€lactate production in <i>Sporolactobacillus inulinus</i> . MicrobiologyOpen, 2019, 8, e00704.	1.2	3
41	Expansin assisted bio-affinity immobilization of endoxylanase from Bacillus subtilis onto corncob residue: Characterization and efficient production of xylooligosaccharides. Food Chemistry, 2019, 282, 101-108.	4.2	27
42	The use of SWATH to analyse the dynamic changes of bacterial proteome of carbapanemase-producing Escherichia coli under antibiotic pressure. Scientific Reports, 2018, 8, 3871.	1.6	18
43	Formation of Catalytically Active Binuclear Center of Glycerophosphodiesterase: A Molecular Dynamics Study. Journal of Physical Chemistry B, 2018, 122, 5797-5808.	1.2	10
44	Metabolic strategies for the degradation of the neuromodulator agmatine in mammals. Metabolism: Clinical and Experimental, 2018, 81, 35-44.	1.5	24
45	Second-Sphere Effects in Dinuclear Fe <sup>III</sup> Zn <sup>II</sup> Hydrolase Biomimetics: Tuning Binding and Reactivity Properties. Inorganic Chemistry, 2018, 57, 187-203.	1.9	29
46	Copper Ions and Coordination Complexes as Novel Carbapenem Adjuvants. Antimicrobial Agents and Chemotherapy, 2018, 62, .	1.4	31
47	A New Mixed-Valence Mn(II)Mn(III) Compound With Catalase and Superoxide Dismutase Activities. Frontiers in Chemistry, 2018, 6, 491.	1.8	23
48	Synthesis, Magnetic Properties, and Catalytic Properties of a Nickel(II)-Dependent Biomimetic of Metallohydrolases. Frontiers in Chemistry, 2018, 6, 441.	1.8	2
49	Engineering highly functional thermostable proteins using ancestral sequence reconstruction. Nature Catalysis, 2018, 1, 878-888.	16.1	106
50	Purple acid phosphatase inhibitors as leads for osteoporosis chemotherapeutics. European Journal of Medicinal Chemistry, 2018, 157, 462-479.	2.6	15
51	Processivity and enzymatic mechanism of a multifunctional family 5 endoglucanase from Bacillus subtilis BS-5 with potential applications in the saccharification of cellulosic substrates. Biotechnology for Biofuels, 2018, 11, 20.	6.2	43
52	Insights into an evolutionary strategy leading to antibiotic resistance. Scientific Reports, 2017, 7, 40357.	1.6	21
53	Visualization of the Reaction Trajectory and Transition State in a Hydrolytic Reaction Catalyzed by a Metalloenzyme. Chemistry - A European Journal, 2017, 23, 4778-4781.	1.7	27
54	Unique spectral signatures of the nucleic acid dye acridine orange can distinguish cell death by apoptosis and necroptosis. Journal of Cell Biology, 2017, 216, 1163-1181.	2.3	54

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55	Progress toward inhibitors of metallo-l²-lactamases. Future Medicinal Chemistry, 2017, 9, 673-691.	1.1	62
56	Structure-activity relationship study and optimisation of 2-aminopyrrole-1-benzyl-4,5-diphenyl-1 H -pyrrole-3-carbonitrile as a broad spectrum metallo-β-lactamase inhibitor. European Journal of Medicinal Chemistry, 2017, 137, 351-364.	2.6	44
57	Mechanistic Insight from Calorimetric Measurements of the Assembly of the Binuclear Metal Active Site of Glycerophosphodiesterase (GpdQ) from <i>Enterobacter aerogenes</i> . Biochemistry, 2017, 56, 3328-3336.	1.2	9
58	Reaction mechanism of the metallohydrolase CpsB from Streptococcus pneumoniae, a promising target for novel antimicrobial agents. Dalton Transactions, 2017, 46, 13194-13201.	1.6	8
59	Is Cu <sup>II</sup> Coordinated to Patellamides inside <i>Prochloron</i> Cells?. Chemistry - A European Journal, 2017, 23, 12264-12274.	1.7	13
60	Enhancement of antibiotic-activity through complexation with metal ions - Combined ITC, NMR, enzymatic and biological studies. Journal of Inorganic Biochemistry, 2017, 167, 134-141.	1.5	43
61	Crystal Structures of Staphylococcus aureus Ketolâ€Acid Reductoisomerase in Complex with Two Transition State Analogues that Have Biocidal Activity. Chemistry - A European Journal, 2017, 23, 18289-18295.	1.7	24
62	Deacidification of grass silage press juice by continuous production of acetoin from its lactate via an immobilized enzymatic reaction cascade. Bioresource Technology, 2017, 245, 1084-1092.	4.8	9
63	High resolution crystal structure of a fluoride-inhibited organophosphate-degrading metallohydrolase. Journal of Inorganic Biochemistry, 2017, 177, 287-290.	1.5	9
64	Characterization of a highly efficient antibiotic-degrading metallo-β-lactamase obtained from an uncultured member of a permafrost community. Metallomics, 2017, 9, 1157-1168.	1.0	17
65	Mammalian agmatinases constitute unusual members in the family of Mn 2+ -dependent ureahydrolases. Journal of Inorganic Biochemistry, 2017, 166, 122-125.	1.5	10
66	Metal Ions Play an Essential Catalytic Role in the Mechanism of Ketol–Acid Reductoisomerase. Chemistry - A European Journal, 2016, 22, 7427-7436.	1.7	30
67	Crystal structure of Mycobacterium tuberculosis ketolâ€acid reductoisomerase at 1.0 à resolution – a potential target for antiâ€tuberculosis drug discovery. FEBS Journal, 2016, 283, 1184-1196.	2.2	33
68	Ca <sup>II</sup> Binding Regulates and Dominates the Reactivity of a Transitionâ€Metalâ€Ionâ€Dependent Diesterase from <i>Mycobacterium tuberculosis</i> . Chemistry - A European Journal, 2016, 22, 999-1009.	1.7	29
69	Product release is rate-limiting for catalytic processing by the Dengue virus protease. Scientific Reports, 2016, 6, 37539.	1.6	10
70	Preface. Journal of Inorganic Biochemistry, 2016, 162, 162-163.	1.5	0
71	Investigation of the identity of the nucleophile initiating the hydrolysis of phosphate esters catalyzed by dinuclear mimics of metallohydrolases. Journal of Inorganic Biochemistry, 2016, 162, 356-365.	1.5	7
72	AIMâ€1: An Antibioticâ€Degrading Metallohydrolase That Displays Mechanistic Flexibility. Chemistry - A European Journal, 2016, 22, 17704-17714.	1.7	28

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73	Metallohydrolase biomimetics with catalytic and structural flexibility. Dalton Transactions, 2016, 45, 18510-18521.	1.6	16
74	Asymmetric mono- and dinuclear Ga III and Zn II complexes as models for purple acid phosphatases. Journal of Inorganic Biochemistry, 2016, 162, 343-355.	1.5	15
75	Total Synthesis and Complete Stereostructure of a Marine Macrolide Glycoside, (â^)‣yngbyalosideâ€B. Chemistry - A European Journal, 2016, 22, 6815-6829.	1.7	17
76	Promiscuous metallo-l²-lactamases: MIM-1 and MIM-2 may play an essential role in quorum sensing networks. Journal of Inorganic Biochemistry, 2016, 162, 366-375.	1.5	24
77	Design, synthesis, and inÂvitro and biological evaluation of potent amino acid-derived thiol inhibitors of the metallo-β-lactamase IMP-1. European Journal of Medicinal Chemistry, 2016, 114, 318-327.	2.6	39
78	Organophosphate-degrading metallohydrolases: Structure and function of potent catalysts for applications in bioremediation. Coordination Chemistry Reviews, 2016, 317, 122-131.	9.5	83
79	Captopril analogues as metallo-Î <sup>2</sup> -lactamase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1589-1593.	1.0	64
80	A Heterodinuclear Fe <sup>III</sup> Zn <sup>II</sup> Complex as a Mimic for Purple Acid Phosphatase with Siteâ€Specific Zn <sup>II</sup> Binding. European Journal of Inorganic Chemistry, 2015, 2015, 3076-3086.	1.0	14
81	Selective Coordination of Gallium(III), Zinc(II), and Copper(II) by an Asymmetric Dinucleating Ligand: A Model for Metallophosphatases. Chemistry - A European Journal, 2015, 21, 18269-18279.	1.7	18
82	Heavy Water as a Probe of the Free Radical Nature and Electrical Conductivity of Melanin. Journal of Physical Chemistry B, 2015, 119, 14994-15000.	1.2	52
83	Insight on the interaction of an agmatinase-like protein with Mn2+ activator ions. Journal of Inorganic Biochemistry, 2015, 145, 65-69.	1.5	9
84	An Approach to More Accurate Model Systems for Purple Acid Phosphatases (PAPs). Inorganic Chemistry, 2015, 54, 7249-7263.	1.9	38
85	β-Lactam antibiotic-degrading enzymes from non-pathogenic marine organisms: a potential threat to human health. Journal of Biological Inorganic Chemistry, 2015, 20, 639-651.	1.1	17
86	Altering the substrate specificity of methyl parathion hydrolase with directed evolution. Archives of Biochemistry and Biophysics, 2015, 573, 59-68.	1.4	27
87	Use of magnetic circular dichroism to study dinuclear metallohydrolases and the corresponding biomimetics. European Biophysics Journal, 2015, 44, 393-415.	1.2	15
88	Induction of apoptosis in leukemia cell lines by new copper(II) complexes containing naphthyl groups via interaction with death receptors. Journal of Inorganic Biochemistry, 2015, 153, 68-87.	1.5	25
89	lron, copper, and manganese complexes with in vitro superoxide dismutase and/or catalase activities that keep Saccharomyces cerevisiae cells alive under severe oxidative stress. Free Radical Biology and Medicine, 2015, 80, 67-76.	1.3	73
90	Inteins—A Focus on the Biotechnological Applications of Splicing-Promoting Proteins. American Journal of Molecular Biology, 2015, 05, 42-56.	0.1	10

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91	Catalytic Mechanisms of Metallohydrolases Containing Two Metal Ions. Advances in Protein Chemistry and Structural Biology, 2014, 97, 49-81.	1.0	60
92	Exploring the correlation between the sequence composition of the nucleotide binding G5 loop of the FeoB GTPase domain (NFeoB) and intrinsic rate of GDP release. Bioscience Reports, 2014, 34, e00158.	1.1	10
93	A GTPase Chimera Illustrates an Uncoupled Nucleotide Affinity and Release Rate, Providing Insight into the Activation Mechanism. Biophysical Journal, 2014, 107, L45-L48.	0.2	4
94	The applications of binuclear metallohydrolases in medicine: Recent advances in the design and development of novel drug leads for purple acid phosphatases, metallo-β-lactamases and arginases. European Journal of Medicinal Chemistry, 2014, 76, 132-144.	2.6	44
95	Determination of the catalytic activity of binuclear metallohydrolases using isothermal titration calorimetry. Journal of Biological Inorganic Chemistry, 2014, 19, 389-398.	1.1	14
96	Structural and functional analysis of a FeoB A143S G5 loop mutant explains the accelerated <scp>GDP</scp> release rate. FEBS Journal, 2014, 281, 2254-2265.	2.2	12
97	Synthesis, characterization, antibacterial and antitumoral activities of mononuclear zinc complexes containing tridentate amine based ligands with N3 or N2O donor groups. Inorganica Chimica Acta, 2014, 416, 35-48.	1.2	19
98	Immobilization of the enzyme GpdQ on magnetite nanoparticles for organophosphate pesticide bioremediation. Journal of Inorganic Biochemistry, 2014, 131, 1-7.	1.5	51
99	Spectroscopic and mechanistic studies of dinuclear metallohydrolases and their biomimetic complexes. Dalton Transactions, 2014, 43, 910-928.	1.6	67
100	X-Ray Absorption Spectroscopy of Dinuclear Metallohydrolases. Biophysical Journal, 2014, 107, 1263-1272.	0.2	17
101	Comparative investigation of the reaction mechanisms of the organophosphate-degrading phosphotriesterases from Agrobacterium radiobacter (OpdA) and Pseudomonas diminuta (OPH). Journal of Biological Inorganic Chemistry, 2014, 19, 1263-1275.	1.1	51
102	Dinuclear Zinc(II) Complexes with Hydrogen Bond Donors as Structural and Functional Phosphatase Models. Inorganic Chemistry, 2014, 53, 9036-9051.	1.9	74
103	Metalloâ€Î²â€lactamases and Their Biomimetic Complexes. European Journal of Inorganic Chemistry, 2014, 2014, 2869-2885.	1.0	10
104	Metallo-β-Lactamases: A Major Threat to Human Health. American Journal of Molecular Biology, 2014, 04, 89-104.	0.1	33
105	Unusual metallo- <i>β</i> -lactamases may constitute a new subgroup in this family of enzymes. American Journal of Molecular Biology, 2014, 04, 11-15.	0.1	18
106	Highly efficient synthetic iron-dependent nucleases activate both intrinsic and extrinsic apoptotic death pathways in leukemia cancer cells. Journal of Inorganic Biochemistry, 2013, 128, 38-47.	1.5	19
107	Identification and characterization of an unusual metallo-β-lactamase from Serratia proteamaculans. Journal of Biological Inorganic Chemistry, 2013, 18, 855-863.	1.1	35
108	Purple acid phosphatase: A journey into the function and mechanism of a colorful enzyme. Coordination Chemistry Reviews, 2013, 257, 473-482.	9.5	166

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109	Synthesis, Magnetic Properties, and Phosphoesterase Activity of Dinuclear Cobalt(II) Complexes. Inorganic Chemistry, 2013, 52, 2029-2043.	1.9	62
110	Asymmetric zinc(ii) complexes as functional and structural models for phosphoesterases. Dalton Transactions, 2013, 42, 9574.	1.6	22
111	Ligand modifications modulate the mechanism of binuclear phosphatase biomimetics. Polyhedron, 2013, 52, 1336-1343.	1.0	11
112	Dinuclear Cobalt(II) Complexes as Metallo-β-lactamase Mimics. European Journal of Inorganic Chemistry, 2013, 2013, 3082-3089.	1.0	11
113	Promiscuity comes at a price: Catalytic versatility vs efficiency in different metal ion derivatives of the potential bioremediator GpdQ. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 425-432.	1.1	35
114	Identification and preliminary characterization of novel B3-type metallo-β-lactamases. American Journal of Molecular Biology, 2013, 03, 198-203.	0.1	12
115	Identification of Purple Acid Phosphatase Inhibitors by Fragmentâ€Based Screening: Promising New Leads for Osteoporosis Therapeutics. Chemical Biology and Drug Design, 2012, 80, 665-674.	1.5	28
116	Spectroscopic Characterization of the Active Fe <sup>III</sup> Fe <sup>III</sup> and Fe <sup>III</sup> Fe <sup>II</sup> Forms of a Purple Acid Phosphatase Model System. Inorganic Chemistry, 2012, 51, 12195-12209.	1.9	45
117	The role of Zn–OR and Zn–OH nucleophiles and the influence of para-substituents in the reactions of binuclear phosphatase mimetics. Dalton Transactions, 2012, 41, 1695-1708.	1.6	52
118	Spectroscopic and Catalytic Characterization of a Functional Fe <sup>III</sup> Fe <sup>II</sup> Biomimetic for the Active Site of Uteroferrin and Protein Cleavage. Inorganic Chemistry, 2012, 51, 2065-2078.	1.9	36
119	Bacterial and Plant Ketol-Acid Reductoisomerases Have Different Mechanisms of Induced Fit during the Catalytic Cycle. Journal of Molecular Biology, 2012, 424, 168-179.	2.0	33
120	Cadmium(II) Complexes: Mimics of Organophosphate Pesticide Degrading Enzymes and Metallo-Î <sup>2</sup> -lactamases. Inorganic Chemistry, 2012, 51, 7669-7681.	1.9	23
121	Binuclear Metallohydrolases: Complex Mechanistic Strategies for a Simple Chemical Reaction. Accounts of Chemical Research, 2012, 45, 1593-1603.	7.6	129
122	3-Mercapto-1,2,4-triazoles and N-acylated thiosemicarbazides as metallo-β-lactamase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 380-386.	1.0	68
123	Penicillin inhibitors of purple acid phosphatase. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 2555-2559.	1.0	13
124	Synthesis and Kinetic Testing of Tetrahydropyrimidineâ€2â€thione and Pyrrole Derivatives as Inhibitors of the Metalloâ€Î²â€lactamase from <i>Klebsiella pneumonia</i> and <i>Pseudomonas aeruginosa</i> . Chemical Biology and Drug Design, 2012, 80, 500-515.	1.5	47
125	Phosphate-bound structure of an organophosphate-degrading enzyme from Agrobacterium radiobacter. Journal of Inorganic Biochemistry, 2012, 106, 19-22.	1.5	15
126	Monoesterase Activity of a Purple Acid Phosphatase Mimic with a Cyclam Platform. Chemistry - A European Journal, 2012, 18, 1700-1710.	1.7	50

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127	A Potentially Polymerizable Heterodinuclear FeIIIZnII Purple Acid Phosphatase Mimic. Synthesis, Characterization, and Phosphate Ester Hydrolysis Studies. Australian Journal of Chemistry, 2011, 64, 258.	0.5	7
128	Synthesis and kinetic testing of new inhibitors for a metallo-β-lactamase from Klebsiella pneumonia and Pseudomonas aeruginosa. European Journal of Medicinal Chemistry, 2011, 46, 6075-6082.	2.6	53
129	Improving a Natural Enzyme Activity through Incorporation of Unnatural Amino Acids. Journal of the American Chemical Society, 2011, 133, 326-333.	6.6	77
130	Phosphate ester cleavage promoted by a tetrameric iron(III) complex. Journal of Biological Inorganic Chemistry, 2011, 16, 25-32.	1.1	35
131	Electronic and geometric structures of the organophosphate-degrading enzyme from Agrobacterium radiobacter (OpdA). Journal of Biological Inorganic Chemistry, 2011, 16, 777-787.	1.1	51
132	Synthesis, modelling and kinetic assays of potent inhibitors of purple acid phosphatase. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 3092-3094.	1.0	22
133	The identification of new metallo-β-lactamase inhibitor leads from fragment-based screening. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 3282-3285.	1.0	70
134	Directed evolution combined with rational design increases activity of GpdQ toward a non-physiological substrate and alters the oligomeric structure of the enzyme. Protein Engineering, Design and Selection, 2011, 24, 861-872.	1.0	21
135	Using a Genetically Encoded Fluorescent Amino Acid as a Site-Specific Probe to Detect Binding of Low-Molecular-Weight Compounds. Assay and Drug Development Technologies, 2011, 9, 50-57.	0.6	18
136	The organophosphate-degrading enzyme from <i>Agrobacterium radiobacter</i> displays mechanistic flexibility for catalysis. Biochemical Journal, 2010, 432, 565-573.	1.7	74
137	The bioremediator glycerophosphodiesterase employs a non-processive mechanism for hydrolysis. Journal of Inorganic Biochemistry, 2010, 104, 211-213.	1.5	23
138	Catalytic promiscuity: catecholase-like activity and hydrolytic DNA cleavage promoted by a mixed-valence Felll Fell complex. Journal of the Brazilian Chemical Society, 2010, 21, 1201-1212.	0.6	18
139	Mutation of outer-shell residues modulates metal ion co-ordination strength in a metalloenzyme. Biochemical Journal, 2010, 429, 313-321.	1.7	18
140	Electronic Structure Analysis of the Dinuclear Metal Center in the Bioremediator Glycerophosphodiesterase (GpdQ) from <i>Enterobacter aerogenes</i> . Inorganic Chemistry, 2010, 49, 2727-2734.	1.9	53
141	The Divalent Metal Ion in the Active Site of Uteroferrin Modulates Substrate Binding and Catalysis. Journal of the American Chemical Society, 2010, 132, 7049-7054.	6.6	62
142	Electronic Structure and Spectro-Structural Correlations of Fe <sup>III</sup> Zn <sup>II</sup> Biomimetics for Purple Acid Phosphatases: Relevance to DNA Cleavage and Cytotoxic Activity. Inorganic Chemistry, 2010, 49, 11421-11438.	1.9	84
143	Manganese Metalloproteins. Biological Magnetic Resonance, 2010, , 273-341.	0.4	7
144	Tartrate-Resistant Acid Phosphatase: A Target for Anti-Osteoporotic Chemotherapeutics. Current Enzyme Inhibition, 2010, 6, 118-129.	0.3	6

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145	Conformational sampling, catalysis, and evolution of the bacterial phosphotriesterase. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21631-21636.	3.3	110
146	Phosphate Ester Hydrolysis: Metal Complexes As Purple Acid Phosphatase and Phosphotriesterase Analogues. European Journal of Inorganic Chemistry, 2009, 2009, 2745-2758.	1.0	103
147	Inhibition of purple acid phosphatase with α-alkoxynaphthylmethylphosphonic acids. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 163-166.	1.0	31
148	Structural Flexibility Enhances the Reactivity of the Bioremediator Glycerophosphodiesterase by Fine-Tuning Its Mechanism of Hydrolysis. Journal of the American Chemical Society, 2009, 131, 11900-11908.	6.6	62
149	Catalase vs Peroxidase Activity of a Manganese(II) Compound: Identification of a Mn(III)â^°(μ-O) <sub>2</sub> â^'Mn(IV) Reaction Intermediate by Electrospray Ionization Mass Spectrometry and Electron Paramagnetic Resonance Spectroscopy. Inorganic Chemistry, 2009, 48, 4569-4579.	1.9	38
150	Structural and Catalytic Characterization of a Heterovalent Mn(II)Mn(III) Complex That Mimics Purple Acid Phosphatases. Inorganic Chemistry, 2009, 48, 10036-10048.	1.9	25
151	Metal-Ion Mutagenesis: Conversion of a Purple Acid Phosphatase from Sweet Potato to a Neutral Phosphatase with the Formation of an Unprecedented Catalytically Competent Mn <sup>II</sup> Mn <sup>II</sup> Active Site. Journal of the American Chemical Society, 2009, 131, 8173-8179	6.6	70
152	Unsymmetrical Fe <sup>III</sup> Co <sup>II</sup> and Ga <sup>III</sup> Co <sup>II</sup> Complexes as Chemical Hydrolases: Biomimetic Models for Purple Acid Phosphatases (PAPs). Inorganic Chemistry, 2009, 48, 7905-7921.	1.9	57
153	Binuclear Non-Heme Iron Enzymes. Biological Magnetic Resonance, 2009, , 269-395.	0.4	2
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