Luke W Guddat

List of Publications by Year
in descending order

181	12,949	47006	28297
papers	citations	47 h-index	105 g-index

192	192	192	15415
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structure of Mpro from SARS-CoV-2 and discovery of its inhibitors. Nature, 2020, 582, 289-293.	27.8	3,133
2	Structure of the RNA-dependent RNA polymerase from COVID-19 virus. Science, 2020, 368, 779-782.	12.6	1,228
3	Structural Basis for RNA Replication by the SARS-CoV-2 Polymerase. Cell, 2020, 182, 417-428.e13.	28.9	672
4	The Catalytic Mechanisms of Binuclear Metallohydrolases. Chemical Reviews, 2006, 106, 3338-3363.	47.7	395
5	Structural basis for the inhibition of SARS-CoV-2 main protease by antineoplastic drug carmofur. Nature Structural and Molecular Biology, 2020, 27, 529-532.	8.2	339
6	Herbicide-binding sites revealed in the structure of plant acetohydroxyacid synthase. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 569-573.	7.1	317
7	Structure and mechanism of inhibition of plant acetohydroxyacid synthase. Plant Physiology and Biochemistry, 2008, 46, 309-324.	5.8	281
8	Cryo-EM Structure of an Extended SARS-CoV-2 Replication and Transcription Complex Reveals an Intermediate State in Cap Synthesis. Cell, 2021, 184, 184-193.e10.	28.9	201
9	Structure, function, and regulation of tartrate-resistant acid phosphatase. Bone, 2000, 27, 575-584.	2.9	193
10	Crystal structure of yeast acetohydroxyacid synthase: a target for herbicidal inhibitors. Journal of Molecular Biology, 2002, 317, 249-262.	4.2	188
11	Crystal Structures of Membrane Transporter MmpL3, an Anti-TB Drug Target. Cell, 2019, 176, 636-648.e13.	28.9	172
12	Crystal structure of mammalian purple acid phosphatase. Structure, 1999, 7, 757-767.	3.3	171
13	Phosphate forms an unusual tripodal complex with the Fe-Mn center of sweet potato purple acid phosphatase. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 273-278.	7.1	152
14	Crystal structures of reduced and oxidized DsbA: investigation of domain motion and thiolate stabilization. Structure, 1998, 6, 757-767.	3.3	147
15	Molecular Basis of Sulfonylurea Herbicide Inhibition of Acetohydroxyacid Synthase. Journal of Biological Chemistry, 2003, 278, 7639-7644.	3.4	147
16	Identification of mammalian-like purple acid phosphatases in a wide range of plants. Gene, 2000, 250, 117-125.	2.2	141
17	Binuclear Metallohydrolases: Complex Mechanistic Strategies for a Simple Chemical Reaction. Accounts of Chemical Research, 2012, 45, 1593-1603.	15.6	129
18	Elucidating the Specificity of Binding of Sulfonylurea Herbicides to Acetohydroxyacid Synthaseâ€. Biochemistry, 2005, 44, 2330-2338.	2.5	118

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19	An electron transfer path connects subunits of a mycobacterial respiratory supercomplex. Science, 2018, 362, .	12.6	117
20	Coupling of N7-methyltransferase and 3â€²-5â€² exoribonuclease with SARS-CoV-2 polymerase reveals mechanisms for capping and proofreading. Cell, 2021, 184, 3474-3485.e11.	28.9	111
21	Inhibition of Hypoxanthine-Guanine Phosphoribosyltransferase by Acyclic Nucleoside Phosphonates: A New Class of Antimalarial Therapeutics. Journal of Medicinal Chemistry, 2009, 52, 4391-4399.	6.4	107
22	Engineering highly functional thermostable proteins using ancestral sequence reconstruction. Nature Catalysis, 2018, 1, 878-888.	34.4	106
23	Comprehensive understanding of acetohydroxyacid synthase inhibition by different herbicide families. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1091-E1100.	7.1	102
24	The 1.1 Ã¥ crystal structure of the neuronal acetylcholine receptor antagonist, Î±-conotoxin PnIA from Conus pennaceus. Structure, 1996, 4, 417-423.	3.3	99
25	Local and Transmitted Conformational Changes on Complexation of an Anti-sweetener Fab. Journal of Molecular Biology, 1994, 236, 247-274.	4.2	97
26	High-throughput screening identifies established drugs as SARS-CoV-2 PLpro inhibitors. Protein and Cell, 2021, 12, 877-888.	11.0	95
27	Role of Human Hypoxanthine Guanine Phosphoribosyltransferase in Activation of the Antiviral Agent T-705 (Favipiravir). Molecular Pharmacology, 2013, 84, 615-629.	2.3	94
28	Three-dimensional structure of an Fv from a human IgM immunoglobulin. Journal of Molecular Biology, 1992, 228, 188-207.	4.2	85
29	Crystal structures of a purple acid phosphatase, representing different steps of this enzyme's catalytic cycle. BMC Structural Biology, 2008, 8, 6.	2.3	83
30	Structural analysis of three His32 mutants of DsbA: Support for an electrostatic role of His32 in DsbA stability. Protein Science, 1997, 6, 1893-1900.	7.6	82
31	Synthesis of branched 9-[2-(2-phosphonoethoxy)ethyl]purines as a new class of acyclic nucleoside phosphonates which inhibit Plasmodium falciparum hypoxanthineâ€“guanineâ€“xanthine phosphoribosyltransferase. Bioorganic and Medicinal Chemistry, 2009, 17, 6218-6232.	3.0	82
32	Structures of cell wall arabinosyltransferases with the anti-tuberculosis drug ethambutol. Science, 2020, 368, 1211-1219.	12.6	82
33	Systematic characterization of mutations in yeast acetohydroxyacid synthase. Interpretation of herbicide-resistance data. FEBS Journal, 2003, 270, 2895-2904.	0.2	80
34	The uncharged surface features surrounding the active site ofEscherichia coliDsbA are conserved and are implicated in peptide binding. Protein Science, 1997, 6, 1148-1156.	7.6	78
35	The organophosphate-degrading enzyme from Agrobacterium radiobacter displays mechanistic flexibility for catalysis. Biochemical Journal, 2010, 432, 565-573.	3.7	74
36	The Crystal Structures of Klebsiella pneumoniae Acetolactate Synthase with Enzyme-bound Cofactor and with an Unusual Intermediate. Journal of Biological Chemistry, 2004, 279, 2242-2253.	3.4	73

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37	Substrate-Promoted Formation of a Catalytically Competent Binuclear Center and Regulation of Reactivity in a Glycerophosphodiesterase from Enterobacter aerogenes. Journal of the American Chemical Society, 2008, 130, 14129-14138.	13.7	72
38	Structure of CcmG/DsbE at 1.14 Ã... Resolution. Structure, 2002, 10, 973-979.	3.3	69
39	Synthesis of Novel N-Branched Acyclic Nucleoside Phosphonates As Potent and Selective Inhibitors of Human, Plasmodium falciparum and Plasmodium vivax 6-Oxopurine Phosphoribosyltransferases. Journal of Medicinal Chemistry, 2012, 55, 6209-6223.	6.4	64
40	Sulfonylureas Have Antifungal Activity and Are Potent Inhibitors of Candida albicans Acetohydroxyacid Synthase. Journal of Medicinal Chemistry, 2013, 56, 210-219.	6.4	64
41	Structural basis for replicase polyprotein cleavage and substrate specificity of main protease from SARS-CoV-2. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2117142119.	7.1	64
42	Acyclic Nucleoside Phosphonates Containing a Second Phosphonate Group Are Potent Inhibitors of 6-Oxopurine Phosphoribosyltransferases and Have Antimalarial Activity. Journal of Medicinal Chemistry, 2013, 56, 2513-2526.	6.4	59
43	Lead Compounds for Antimalarial Chemotherapy:Â Purine Base Analogs Discriminate between Human andP.Falciparum6-Oxopurine Phosphoribosyltransferases. Journal of Medicinal Chemistry, 2006, 49, 7479-7486.	6.4	55
44	Phosphotyrosyl peptides and analogues as substrates and inhibitors of purple acid phosphatases. Archives of Biochemistry and Biophysics, 2004, 424, 154-162.	3.0	54
45	The Crystal Structure of Free Human Hypoxanthine-guanine Phosphoribosyltransferase Reveals Extensive Conformational Plasticity Throughout the Catalytic Cycle. Journal of Molecular Biology, 2005, 351, 170-181.	4.2	52
46	Identification and molecular modeling of a novel, plant-like, human purple acid phosphatase. Gene, 2006, 377, 12-20.	2.2	52
47	Plant collagenase: Unique collagenolytic activity of cysteine proteases from ginger. Biochimica Et Biophysica Acta - General Subjects, 2007, 1770, 1627-1635.	2.4	51
48	Probing the mechanism of the bifunctional enzyme ketol-acid reductoisomerase by site-directed mutagenesis of the active site. FEBS Journal, 2005, 272, 593-602.	4.7	50
49	Crystal structures of two novel sulfonylurea herbicides in complex with Arabidopsisâ€ƒthaliana acetohydroxyacid synthase. FEBS Journal, 2009, 276, 1282-1290.	4.7	49
50	Aza-acyclic Nucleoside Phosphonates Containing a Second Phosphonate Group As Inhibitors of the Human, Plasmodium falciparum and vivax 6-Oxopurine Phosphoribosyltransferases and Their Prodrugs As Antimalarial Agents. Journal of Medicinal Chemistry, 2015, 58, 827-846.	6.4	49
51	Crystal structure of textilininâ€1, a Kunitzâ€type serine protease inhibitor from the venom of the Australian common brown snake (Pseudonajaâ€ƒtextilis). FEBS Journal, 2009, 276, 3163-3175.	4.7	46
52	Structure-activity relationships for a new family of sulfonylurea herbicides. Journal of Computer-Aided Molecular Design, 2005, 19, 801-820.	2.9	45
53	Crystal structures of free, IMP-, and GMP-bound Escherichia coli hypoxanthine phosphoribosyltransferase. Protein Science, 2009, 11, 1626-1638.	7.6	44
54	The applications of binuclear metallohydrolases in medicine: Recent advances in the design and development of novel drug leads for purple acid phosphatases, metallo-Î²-lactamases and arginases. European Journal of Medicinal Chemistry, 2014, 76, 132-144.	5.5	44

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55	Structural insights into the mechanism of inhibition of AHAS by herbicides. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1945-E1954.	7.1	44
56	Three-dimensional structure of a human Fab with high affinity for tetanus toxoid. Immunotechnology: an International Journal of Immunological Engineering, 1998, 3, 253-270.	2.4	43
57	Conformational Changes in a Plant Ketol-Acid Reductoisomerase upon Mg2+ and NADPH Binding as Revealed by Two Crystal Structures. Journal of Molecular Biology, 2009, 389, 167-182.	4.2	43
58	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
59	Acetohydroxyacid Synthase: A Target for Antimicrobial Drug Discovery. Current Pharmaceutical Design, 2014, 20, 740-753.	1.9	43
60	Inhibition of the Escherichia coli 6-Oxopurine Phosphoribosyltransferases by Nucleoside Phosphonates: Potential for New Antibacterial Agents. Journal of Medicinal Chemistry, 2013, 56, 6967-6984.	6.4	41
61	The crystal structure of a bacterial Class II ketol-acid reductoisomerase: Domain conservation and evolution. Protein Science, 2005, 14, 3089-3100.	7.6	40
62	Commercial AHAS-inhibiting herbicides are promising drug leads for the treatment of human fungal pathogenic infections. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9649-E9658.	7.1	40
63	Chemical Synthesis, in Vitro Acetohydroxyacid Synthase (AHAS) Inhibition, Herbicidal Activity, and Computational Studies of Isatin Derivatives. Journal of Agricultural and Food Chemistry, 2011, 59, 9892-9900.	5.2	39
64	Diverse binding site structures revealed in homology models of polyreactive immunoglobulins. Journal of Computer-Aided Molecular Design, 1997, 11, 453-461.	2.9	38
65	Discovery and evaluation of novel Mycobacterium tuberculosis ketol-acid reductoisomerase inhibitors as therapeutic drug leads. Journal of Computer-Aided Molecular Design, 2019, 33, 357-366.	2.9	38
66	Intramolecular signaling upon complexation. FASEB Journal, 1995, 9, 101-106.	0.5	37
67	Structures of fungal and plant acetohydroxyacid synthases. Nature, 2020, 586, 317-321.	27.8	37
68	Structural elements that modulate the substrate specificity of plant purple acid phosphatases: Avenues for improved phosphorus acquisition in crops. Plant Science, 2020, 294, 110445.	3.6	37
69	6-Oxopurine Phosphoribosyltransferase: A Target for the Development of Antimalarial Drugs. Current Topics in Medicinal Chemistry, 2011, 11, 2085-2102.	2.1	36
70	Synthesis of 9-phosphonoalkyl and 9-phosphonoalkoxyalkyl purines: Evaluation of their ability to act as inhibitors of Plasmodium falciparum, Plasmodium vivax and human hypoxanthineâ€“guanineâ€“(xanthine) phosphoribosyltransferases. Bioorganic and Medicinal Chemistry, 2012, 20, 1076-1089.	3.0	36
71	First Crystal Structures of Mycobacterium tuberculosis 6-Oxopurine Phosphoribosyltransferase: Complexes with GMP and Pyrophosphate and with Acyclic Nucleoside Phosphonates Whose Prodrugs Have Antituberculosis Activity. Journal of Medicinal Chemistry, 2015, 58, 4822-4838.	6.4	36
72	Plasmodium vivax hypoxanthine-guanine phosphoribosyltransferase: A target for anti-malarial chemotherapy. Molecular and Biochemical Parasitology, 2010, 173, 165-169.	1.1	35

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73	Three-dimensional structure of an immunoglobulin light-chain dimer with amyloidogenic properties. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 815-823.	2.5	34
74	Inhibition studies of purple acid phosphatases: implications for the catalytic mechanism. Journal of the Brazilian Chemical Society, 2006, 17, 1558-1565.	0.6	33
75	Bacterial and Plant Ketol-Acid Reductoisomerases Have Different Mechanisms of Induced Fit during the Catalytic Cycle. Journal of Molecular Biology, 2012, 424, 168-179.	4.2	33
76	Crystal structure of Mycobacterium tuberculosis ketolâ€acid reductoisomerase at 1.0 Ã… resolution â€“ a potential target for antiâ€tuberculosis drug discovery. FEBS Journal, 2016, 283, 1184-1196.	4.7	33
77	Crystallization ofArabidopsis thalianaacetohydroxyacid synthase in complex with the sulfonylurea herbicide chlorimuron ethyl. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 153-155.	2.5	32
78	Inhibition of purple acid phosphatase with Î±-alkoxynaphthylmethylphosphonic acids. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 163-166.	2.2	31
79	Metal Ions Play an Essential Catalytic Role in the Mechanism of Ketolâ€“Acid Reductoisomerase. Chemistry - A European Journal, 2016, 22, 7427-7436.	3.3	30
80	Mycobacterial dynamin-like protein IniA mediates membrane fission. Nature Communications, 2019, 10, 3906.	12.8	30
81	Antimalarial activity of prodrugs of N-branched acyclic nucleoside phosphonate inhibitors of 6-oxopurine phosphoribosyltransferases. Bioorganic and Medicinal Chemistry, 2015, 23, 5502-5510.	3.0	29
82	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.	3.2	28
83	AIMâ€1: An Antibioticâ€Degrading Metallohydrolase That Displays Mechanistic Flexibility. Chemistry - A European Journal, 2016, 22, 17704-17714.	3.3	28
84	Evaluation of the Trypanosoma brucei 6-oxopurine salvage pathway as a potential target for drug discovery. PLoS Neglected Tropical Diseases, 2018, 12, e0006301.	3.0	28
85	Comparison of the three-dimensional structures of a humanized and a chimeric Fab of an anti-Î³-interferon antibody. Journal of Molecular Recognition, 1999, 12, 19-32.	2.1	27
86	The three-dimensional structure of a complex of a murine Fab (NC10.14) with a potent sweetener (NC174): an illustration of structural diversity in antigen recognition by immunoglobulins. Journal of Molecular Biology, 2000, 302, 853-872.	4.2	27
87	Visualization of the Reaction Trajectory and Transition State in a Hydrolytic Reaction Catalyzed by a Metalloenzyme. Chemistry - A European Journal, 2017, 23, 4778-4781.	3.3	27
88	Structural Basis for the Inhibition of Mycobacterial MmpL3 by NITD-349 and SPIRO. Journal of Molecular Biology, 2020, 432, 4426-4434.	4.2	27
89	Synthesis of purine N9-[2-hydroxy-3-O-(phosphonomethoxy)propyl] derivatives and their side-chain modified analogs as potential antimalarial agents. Bioorganic and Medicinal Chemistry, 2012, 20, 1222-1230.	3.0	25
90	Structural insights into substrate recognition by the type VII secretion system. Protein and Cell, 2020, 11, 124-137.	11.0	25

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91	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.	3.3	24
92	Cryo-EM structure of mycobacterial cytochrome bd reveals two oxygen access channels. Nature Communications, 2021, 12, 4621.	12.8	24
93	Design of Plasmodium vivax Hypoxanthine-Guanine Phosphoribosyltransferase Inhibitors as Potential Antimalarial Therapeutics. ACS Chemical Biology, 2018, 13, 82-90.	3.4	22
94	Structure of Mycobacterium tuberculosis cytochrome bcc in complex with Q203 and TB47, two anti-TB drug candidates. ELife, 2021, 10, .	6.0	22
95	Synthesis and Evaluation of Novel Acyclic Nucleoside Phosphonates as Inhibitors of Plasmodium falciparum and Human 6â€Oxopurine Phosphoribosyltransferases. ChemMedChem, 2015, 10, 1707-1723.	3.2	21
96	Broad spectrum antibiotic-degrading metallo-Î²-lactamases are phylogenetically diverse. Protein and Cell, 2020, 11, 613-617.	11.0	21
97	The structureâ€“activity relationship in herbicidal monosubstituted sulfonylureas. Pest Management Science, 2012, 68, 618-628.	3.4	20
98	Synthesis and evaluation of symmetric acyclic nucleoside bisphosphonates as inhibitors of the Plasmodium falciparum, Plasmodium vivax and human 6-oxopurine phosphoribosyltransferases and the antimalarial activity of their prodrugs. Bioorganic and Medicinal Chemistry, 2017, 25, 4008-4030.	3.0	20
99	Cryo-EM structure of trimeric Mycobacterium smegmatis succinate dehydrogenase with a membrane-anchor SdhF. Nature Communications, 2020, 11, 4245.	12.8	20
100	Structures of Mycobacterium tuberculosis Penicillin-Binding Protein 3 in Complex with Five Î²-Lactam Antibiotics Reveal Mechanism of Inactivation. Molecular Pharmacology, 2020, 97, 287-294.	2.3	20
101	The effect of novel [3-fluoro-(2-phosphonoethoxy)propyl]purines on the inhibition of Plasmodium falciparum, Plasmodium vivax and human hypoxanthineâ€“guanineâ€“(xanthine) phosphoribosyltransferases. European Journal of Medicinal Chemistry, 2013, 67, 81-89.	5.5	19
102	Structural basis of trehalose recycling by the ABC transporter LpqY-SugABC. Science Advances, 2020, 6, .	10.3	19
103	The structure of Human Microplasmin in Complex with Textilinin-1, an Aprotinin-like Inhibitor from the Australian Brown Snake. PLoS ONE, 2013, 8, e54104.	2.5	19
104	Commercial Herbicides Can Trigger the Oxidative Inactivation of Acetohydroxyacid Synthase. Angewandte Chemie - International Edition, 2016, 55, 4247-4251.	13.8	18
105	Acyclic Nucleoside Phosphonates Containing 9â€Deazahypoxanthine and a Fiveâ€Membered Heterocycle as Selective Inhibitors of Plasmodial 6â€Oxopurine Phosphoribosyltransferases. ChemMedChem, 2017, 12, 1133-1141.	3.2	18
106	Synthesis and Evaluation of Asymmetric Acyclic Nucleoside Bisphosphonates as Inhibitors of Plasmodium falciparum and Human Hypoxanthineâ€“Guanineâ€“(Xanthine) Phosphoribosyltransferase. Journal of Medicinal Chemistry, 2017, 60, 7539-7554.	6.4	18
107	Crystallization and preliminary X-ray diffraction data for a purple acid phosphatase from sweet potato. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 2051-2052.	2.5	17
108	Crystallization of the catalytic subunit ofSaccharomyces cerevisiaeacetohydroxyacid synthase. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 1321-1323.	2.5	17

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109	Architecture of the mycobacterial succinate dehydrogenase with a membrane-embedded Rieske FeS cluster. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	17
110	Structural basis of resistance to herbicides that target acetohydroxyacid synthase. Nature Communications, 2022, 13, .	12.8	17
111	The Binding Mode of an ADP Analogue to a Metallohydrolase Mimics the Likely Transition State. ChemBioChem, 2019, 20, 1536-1540.	2.6	16
112	An unusual human IgM antibody with a protruding HCDR3 and high avidity for its peptide ligands. Molecular Immunology, 2000, 37, 295-310.	2.2	15
113	Phosphate-bound structure of an organophosphate-degrading enzyme from Agrobacterium radiobacter. Journal of Inorganic Biochemistry, 2012, 106, 19-22.	3.5	15
114	Crystal structures and inhibition of Trypanosoma brucei hypoxanthineâ€“guanine phosphoribosyltransferase. Scientific Reports, 2016, 6, 35894.	3.3	15
115	Purple acid phosphatase inhibitors as leads for osteoporosis chemotherapeutics. European Journal of Medicinal Chemistry, 2018, 157, 462-479.	5.5	15
116	Discovery, Synthesis and Evaluation of a Ketolâ€Acid Reductoisomerase Inhibitor. Chemistry - A European Journal, 2020, 26, 8958-8968.	3.3	15
117	Crystal structures of some niobium and tantalum oxides. Journal of Solid State Chemistry, 1986, 61, 181-187.	2.9	14
118	A focused sulfated glycoconjugate Ugi library for probing heparan sulfate-binding angiogenic growth factors. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 6190-6194.	2.2	14
119	Determination of the catalytic activity of binuclear metallohydrolases using isothermal titration calorimetry. Journal of Biological Inorganic Chemistry, 2014, 19, 389-398.	2.6	14
120	Synthesis of the secoâ€Limonoid BCD Ring System Identifies a Hsp90 Chaperon Machinery (p23) Inhibitor. Chemistry - A European Journal, 2019, 25, 1451-1455.	3.3	14
121	Identification of a non-purple tartrate-resistant acid phosphatase: an evolutionary link to Ser/Thr protein phosphatases?. BMC Research Notes, 2008, 1, 78.	1.4	13
122	Penicillin inhibitors of purple acid phosphatase. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 2555-2559.	2.2	13
123	Herbicides That Target Acetohydroxyacid Synthase Are Potent Inhibitors of the Growth of Drug-Resistant Candida auris. ACS Infectious Diseases, 2020, 6, 2901-2912.	3.8	13
124	Structure and mechanism of potent bifunctional Î²-lactam- and homoserine lactone-degrading enzymes from marine microorganisms. Scientific Reports, 2020, 10, 12882.	3.3	13
125	Cryo-EM snapshots of mycobacterial arabinosyltransferase complex EmbB2-AcpM2. Protein and Cell, 2020, 11, 505-517.	11.0	13
126	Synthesis, conformational studies, and biological properties of phosphonomethoxyethyl derivatives of nucleobases with a locked conformation via a pyrrolidine ring. Organic and Biomolecular Chemistry, 2015, 13, 4693-4705.	2.8	12

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127	Novel nucleotide analogues bearing (1 H -1,2,3-triazol-4-yl)phosphonic acid moiety as inhibitors of Plasmodium and human 6-oxopurine phosphoribosyltransferases. Tetrahedron, 2017, 73, 692-702.	1.9	12
128	Sulfide, sulfoxide and sulfone bridged acyclic nucleoside phosphonates as inhibitors of the Plasmodium falciparum and human 6-oxopurine phosphoribosyltransferases: Synthesis and evaluation. European Journal of Medicinal Chemistry, 2019, 183, 111667.	5.5	12
129	Design and development of ((4-methoxyphenyl)carbamoyl) (5-(5-nitrothiophen-2-yl)-1,3,4-thiadiazol-2-yl)amide analogues as Mycobacterium tuberculosis ketol-acid reductoisomerase inhibitors. European Journal of Medicinal Chemistry, 2020, 193, 112178.	5.5	12
130	Crystallization of an Fv fragment from a human IgM cryoglobulin by a microseeding technique. Journal of Crystal Growth, 1993, 126, 229-244.	1.5	11
131	The Role of a FAD Cofactor in the Regulation of Acetohydroxyacid Synthase by Redox Signaling Molecules. Journal of Biological Chemistry, 2017, 292, 5101-5109.	3.4	11
132	Acyclic nucleoside phosphonates with unnatural nucleobases, favipiravir and allopurinol, designed as potential inhibitors of the human and Plasmodium falciparum 6-oxopurine phosphoribosyltransferases. Tetrahedron, 2018, 74, 5886-5897.	1.9	11
133	Crystallization and preliminary diffraction studies of native and selenomethionine CcmG (CycY, DsbE). Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 1293-1295.	2.5	10
134	Characterization and structural analysis of a potent anticoagulant phospholipase A2 from Pseudechis australis snake venom. Toxicon, 2016, 111, 37-49.	1.6	10
135	Pyrrolidine nucleoside bisphosphonates as antituberculosis agents targeting hypoxanthine-guanine phosphoribosyltransferase. European Journal of Medicinal Chemistry, 2018, 159, 10-22.	5.5	10
136	Discovery of a Pyrimidinedione Derivative with Potent Inhibitory Activity against Mycobacterium tuberculosis Ketolâ€“Acid Reductoisomerase. Chemistry - A European Journal, 2021, 27, 3130-3141.	3.3	10
137	Analogues of the Herbicide, N-Hydroxy-N-isopropyloxamate, Inhibit Mycobacterium tuberculosis Ketol-Acid Reductoisomerase and Their Prodrugs Are Promising Anti-TB Drug Leads. Journal of Medicinal Chemistry, 2021, 64, 1670-1684.	6.4	10
138	The crystal structure of Ba3V4O13. Journal of Solid State Chemistry, 1987, 71, 390-395.	2.9	9
139	Difunctionalization of primary aromatic amines with ethylene; synthesis of Î¼-arylnitrilobis(ethane-2,1-diyl)dimercury(II) complexes. Crystal structure of 2,4,6-Me3C6H2N-(CH2CH2HgCl)2. Journal of Organometallic Chemistry, 1989, 375, C1-C4.	1.8	9
140	Crystallization of the FAD-independent acetolactate synthase ofKlebsiella pneumoniae. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1237-1239.	2.5	9
141	Oligomeric state of hypoxanthineâ˜guanine phosphoribosyltransferase from Mycobacterium tuberculosis. Biochimie, 2017, 135, 6-14.	2.6	9
142	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.	9.6	9
143	High resolution crystal structure of a fluoride-inhibited organophosphate-degrading metallohydrolase. Journal of Inorganic Biochemistry, 2017, 177, 287-290.	3.5	9
144	Crystal structures ofTrypanosoma bruceihypoxanthine â€“ guanine â€“ xanthine phosphoribosyltransferase in complex withIMP,GMPandXMP. FEBS Journal, 2019, 286, 4721-4736.	4.7	9

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145	Synthesis, evaluation and structural investigations of potent purple acid phosphatase inhibitors as drug leads for osteoporosis. European Journal of Medicinal Chemistry, 2019, 182, 111611.	5.5	9
146	Towards a sustainable generation of pseudopterosin-type bioactives. Green Chemistry, 2020, 22, 6033-6046.	9.0	9
147	Crystal Structures of Intact IgG Antibodies. ImmunoMethods, 1993, 3, 197-210.	0.8	8
148	Crystal Structures of Acyclic Nucleoside Phosphonates in Complex withEscherichia coliHypoxanthine Phosphoribosyltransferase. ChemistrySelect, 2016, 1, 6267-6276.	1.5	8
149	Inhibition studies of ketol-acid reductoisomerases from pathogenic microorganisms. Archives of Biochemistry and Biophysics, 2020, 692, 108516.	3.0	8
150	Acyclic nucleoside phosphonates with adenine nucleobase inhibit Trypanosoma brucei adenine phosphoribosyltransferase in vitro. Scientific Reports, 2021, 11, 13317.	3.3	8
151	The 2.0 Ã… X-ray structure for yeast acetohydroxyacid synthase provides new insights into its cofactor and quaternary structure requirements. PLoS ONE, 2017, 12, e0171443.	2.5	8
152	Structural basis for the broad substrate specificity of two acyl-CoA dehydrogenases FadE5 from mycobacteria. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16324-16332.	7.1	7
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