

Luke W Guddat

List of Publications by Year in descending order

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181
papers

12,949
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46918

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all docs

192
docs citations

192
times ranked

15415
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of Mpro from SARS-CoV-2 and discovery of its inhibitors. <i>Nature</i> , 2020, 582, 289-293.	13.7	3,133
2	Structure of the RNA-dependent RNA polymerase from COVID-19 virus. <i>Science</i> , 2020, 368, 779-782.	6.0	1,228
3	Structural Basis for RNA Replication by the SARS-CoV-2 Polymerase. <i>Cell</i> , 2020, 182, 417-428.e13.	13.5	672
4	The Catalytic Mechanisms of Binuclear Metallohydrolases. <i>Chemical Reviews</i> , 2006, 106, 3338-3363.	23.0	395
5	Structural basis for the inhibition of SARS-CoV-2 main protease by antineoplastic drug carmofur. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 529-532.	3.6	339
6	Herbicide-binding sites revealed in the structure of plant acetohydroxyacid synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 569-573.	3.3	317
7	Structure and mechanism of inhibition of plant acetohydroxyacid synthase. <i>Plant Physiology and Biochemistry</i> , 2008, 46, 309-324.	2.8	281
8	Cryo-EM Structure of an Extended SARS-CoV-2 Replication and Transcription Complex Reveals an Intermediate State in Cap Synthesis. <i>Cell</i> , 2021, 184, 184-193.e10.	13.5	201
9	Structure, function, and regulation of tartrate-resistant acid phosphatase. <i>Bone</i> , 2000, 27, 575-584.	1.4	193
10	Crystal structure of yeast acetohydroxyacid synthase: a target for herbicidal inhibitors. <i>Journal of Molecular Biology</i> , 2002, 317, 249-262.	2.0	188
11	Crystal Structures of Membrane Transporter MmpL3, an Anti-TB Drug Target. <i>Cell</i> , 2019, 176, 636-648.e13.	13.5	172
12	Crystal structure of mammalian purple acid phosphatase. <i>Structure</i> , 1999, 7, 757-767.	1.6	171
13	Phosphate forms an unusual tripodal complex with the Fe-Mn center of sweet potato purple acid phosphatase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 273-278.	3.3	152
14	Crystal structures of reduced and oxidized DsbA: investigation of domain motion and thiolate stabilization. <i>Structure</i> , 1998, 6, 757-767.	1.6	147
15	Molecular Basis of Sulfonylurea Herbicide Inhibition of Acetohydroxyacid Synthase. <i>Journal of Biological Chemistry</i> , 2003, 278, 7639-7644.	1.6	147
16	Identification of mammalian-like purple acid phosphatases in a wide range of plants. <i>Gene</i> , 2000, 250, 117-125.	1.0	141
17	Binuclear Metallohydrolases: Complex Mechanistic Strategies for a Simple Chemical Reaction. <i>Accounts of Chemical Research</i> , 2012, 45, 1593-1603.	7.6	129
18	Elucidating the Specificity of Binding of Sulfonylurea Herbicides to Acetohydroxyacid Synthase. <i>Biochemistry</i> , 2005, 44, 2330-2338.	1.2	118

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19	An electron transfer path connects subunits of a mycobacterial respiratory supercomplex. <i>Science</i> , 2018, 362, .	6.0	117
20	Coupling of N7-methyltransferase and 3'â€²-5'â€² exonuclease with SARS-CoV-2 polymerase reveals mechanisms for capping and proofreading. <i>Cell</i> , 2021, 184, 3474-3485.e11.	13.5	111
21	Inhibition of Hypoxanthine-Guanine Phosphoribosyltransferase by Acyclic Nucleoside Phosphonates: A New Class of Antimalarial Therapeutics. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 4391-4399.	2.9	107
22	Engineering highly functional thermostable proteins using ancestral sequence reconstruction. <i>Nature Catalysis</i> , 2018, 1, 878-888.	16.1	106
23	Comprehensive understanding of acetohydroxyacid synthase inhibition by different herbicide families. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1091-E1100.	3.3	102
24	The 1.1 Å crystal structure of the neuronal acetylcholine receptor antagonist, Î±-conotoxin PnIA from <i>Conus pennaceus</i> . <i>Structure</i> , 1996, 4, 417-423.	1.6	99
25	Local and Transmitted Conformational Changes on Complexation of an Anti-sweetener Fab. <i>Journal of Molecular Biology</i> , 1994, 236, 247-274.	2.0	97
26	High-throughput screening identifies established drugs as SARS-CoV-2 PLpro inhibitors. <i>Protein and Cell</i> , 2021, 12, 877-888.	4.8	95
27	Role of Human Hypoxanthine Guanine Phosphoribosyltransferase in Activation of the Antiviral Agent T-705 (Favipiravir). <i>Molecular Pharmacology</i> , 2013, 84, 615-629.	1.0	94
28	Three-dimensional structure of an Fv from a human IgM immunoglobulin. <i>Journal of Molecular Biology</i> , 1992, 228, 188-207.	2.0	85
29	Crystal structures of a purple acid phosphatase, representing different steps of this enzyme's catalytic cycle. <i>BMC Structural Biology</i> , 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. <i>Protein Science</i> , 1997, 6, 1893-1900.	3.1	82
31	Synthesis of branched 9-[2-(2-phosphonoethoxy)ethyl]purines as a new class of acyclic nucleoside phosphonates which inhibit <i>Plasmodium falciparum</i> hypoxanthineâ€“guanineâ€“xanthine phosphoribosyltransferase. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 6218-6232.	1.4	82
32	Structures of cell wall arabinosyltransferases with the anti-tuberculosis drug ethambutol. <i>Science</i> , 2020, 368, 1211-1219.	6.0	82
33	Systematic characterization of mutations in yeast acetohydroxyacid synthase. Interpretation of herbicide-resistance data. <i>FEBS Journal</i> , 2003, 270, 2895-2904.	0.2	80
34	The uncharged surface features surrounding the active site of <i>Escherichia coli</i> DsbA are conserved and are implicated in peptide binding. <i>Protein Science</i> , 1997, 6, 1148-1156.	3.1	78
35	The organophosphate-degrading enzyme from <i>Agrobacterium radiobacter</i> displays mechanistic flexibility for catalysis. <i>Biochemical Journal</i> , 2010, 432, 565-573.	1.7	74
36	The Crystal Structures of <i>Klebsiella pneumoniae</i> Acetolactate Synthase with Enzyme-bound Cofactor and with an Unusual Intermediate. <i>Journal of Biological Chemistry</i> , 2004, 279, 2242-2253.	1.6	73

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37	Substrate-Promoted Formation of a Catalytically Competent Binuclear Center and Regulation of Reactivity in a Glycerophosphodiesterase from <i>Enterobacter aerogenes</i> . <i>Journal of the American Chemical Society</i> , 2008, 130, 14129-14138.	6.6	72
38	Structure of CcmG/DsbE at 1.14 Å... Resolution. <i>Structure</i> , 2002, 10, 973-979.	1.6	69
39	Synthesis of Novel N-Branched Acyclic Nucleoside Phosphonates As Potent and Selective Inhibitors of Human, <i>Plasmodium falciparum</i> and <i>Plasmodium vivax</i> 6-Oxopurine Phosphoribosyltransferases. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 6209-6223.	2.9	64
40	Sulfonylureas Have Antifungal Activity and Are Potent Inhibitors of <i>Candida albicans</i> Acetohydroxyacid Synthase. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 210-219.	2.9	64
41	Structural basis for replicase polyprotein cleavage and substrate specificity of main protease from SARS-CoV-2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2117142119.	3.3	64
42	Acyclic Nucleoside Phosphonates Containing a Second Phosphonate Group Are Potent Inhibitors of 6-Oxopurine Phosphoribosyltransferases and Have Antimalarial Activity. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 2513-2526.	2.9	59
43	Lead Compounds for Antimalarial Chemotherapy: Purine Base Analogs Discriminate between Human and <i>P. falciparum</i> 6-Oxopurine Phosphoribosyltransferases. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 7479-7486.	2.9	55
44	Phosphotyrosyl peptides and analogues as substrates and inhibitors of purple acid phosphatases. <i>Archives of Biochemistry and Biophysics</i> , 2004, 424, 154-162.	1.4	54
45	The Crystal Structure of Free Human Hypoxanthine-guanine Phosphoribosyltransferase Reveals Extensive Conformational Plasticity Throughout the Catalytic Cycle. <i>Journal of Molecular Biology</i> , 2005, 351, 170-181.	2.0	52
46	Identification and molecular modeling of a novel, plant-like, human purple acid phosphatase. <i>Gene</i> , 2006, 377, 12-20.	1.0	52
47	Plant collagenase: Unique collagenolytic activity of cysteine proteases from ginger. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007, 1770, 1627-1635.	1.1	51
48	Probing the mechanism of the bifunctional enzyme ketol-acid reductoisomerase by site-directed mutagenesis of the active site. <i>FEBS Journal</i> , 2005, 272, 593-602.	2.2	50
49	Crystal structures of two novel sulfonylurea herbicides in complex with <i>Arabidopsis thaliana</i> acetohydroxyacid synthase. <i>FEBS Journal</i> , 2009, 276, 1282-1290.	2.2	49
50	Aza-acyclic Nucleoside Phosphonates Containing a Second Phosphonate Group As Inhibitors of the Human, <i>Plasmodium falciparum</i> and <i>Plasmodium vivax</i> 6-Oxopurine Phosphoribosyltransferases and Their Prodrugs As Antimalarial Agents. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 827-846.	2.9	49
51	Crystal structure of textilinin-1, a Kunitz-type serine protease inhibitor from the venom of the Australian common brown snake (<i>Pseudonaja textilis</i>). <i>FEBS Journal</i> , 2009, 276, 3163-3175.	2.2	46
52	Structure-activity relationships for a new family of sulfonylurea herbicides. <i>Journal of Computer-Aided Molecular Design</i> , 2005, 19, 801-820.	1.3	45
53	Crystal structures of free, IMP-, and GMP-bound <i>Escherichia coli</i> hypoxanthine phosphoribosyltransferase. <i>Protein Science</i> , 2009, 11, 1626-1638.	3.1	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- β -lactamases and arginases. <i>European Journal of Medicinal Chemistry</i> , 2014, 76, 132-144.	2.6	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.	3.3	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 Mg ²⁺ and NADPH Binding as Revealed by Two Crystal Structures. Journal of Molecular Biology, 2009, 389, 167-182.	2.0	43
58	Processivity and enzymatic mechanism of a multifunctional family 5 endoglucanase from <i>Bacillus subtilis</i> 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.	0.9	43
60	Inhibition of the <i>Escherichia coli</i> 6-Oxopurine Phosphoribosyltransferases by Nucleoside Phosphonates: Potential for New Antibacterial Agents. Journal of Medicinal Chemistry, 2013, 56, 6967-6984.	2.9	41
61	The crystal structure of a bacterial Class II ketol-acid reductoisomerase: Domain conservation and evolution. Protein Science, 2005, 14, 3089-3100.	3.1	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.	3.3	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.	2.4	39
64	Diverse binding site structures revealed in homology models of polyreactive immunoglobulins. Journal of Computer-Aided Molecular Design, 1997, 11, 453-461.	1.3	38
65	Discovery and evaluation of novel <i>Mycobacterium tuberculosis</i> ketol-acid reductoisomerase inhibitors as therapeutic drug leads. Journal of Computer-Aided Molecular Design, 2019, 33, 357-366.	1.3	38
66	Intramolecular signaling upon complexation. FASEB Journal, 1995, 9, 101-106.	0.2	37
67	Structures of fungal and plant acetohydroxyacid synthases. Nature, 2020, 586, 317-321.	13.7	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.	1.7	37
69	6-Oxopurine Phosphoribosyltransferase: A Target for the Development of Antimalarial Drugs. Current Topics in Medicinal Chemistry, 2011, 11, 2085-2102.	1.0	36
70	Synthesis of 9-phosphonoalkyl and 9-phosphonoalkoxyalkyl purines: Evaluation of their ability to act as inhibitors of <i>Plasmodium falciparum</i> , <i>Plasmodium vivax</i> and human hypoxanthine-guanine (xanthine) phosphoribosyltransferases. Bioorganic and Medicinal Chemistry, 2012, 20, 1076-1089.	1.4	36
71	First Crystal Structures of <i>Mycobacterium tuberculosis</i> 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.	2.9	36
72	<i>Plasmodium vivax</i> hypoxanthine-guanine phosphoribosyltransferase: A target for anti-malarial chemotherapy. Molecular and Biochemical Parasitology, 2010, 173, 165-169.	0.5	35

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73	Three-dimensional structure of an immunoglobulin light-chain dimer with amyloidogenic properties. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 815-823.	2.5	34
74	Inhibition studies of purple acid phosphatases: implications for the catalytic mechanism. <i>Journal of the Brazilian Chemical Society</i> , 2006, 17, 1558-1565.	0.6	33
75	Bacterial and Plant Ketol-Acid Reductoisomerases Have Different Mechanisms of Induced Fit during the Catalytic Cycle. <i>Journal of Molecular Biology</i> , 2012, 424, 168-179.	2.0	33
76	Crystal structure of <i>Mycobacterium tuberculosis</i> ketol-acid reductoisomerase at 1.0 Å... resolution – a potential target for anti-tuberculosis drug discovery. <i>FEBS Journal</i> , 2016, 283, 1184-1196.	2.2	33
77	Crystallization of <i>Arabidopsis thaliana</i> acetohydroxyacid synthase in complex with the sulfonylurea herbicide chlorimuron ethyl. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 153-155.	2.5	32
78	Inhibition of purple acid phosphatase with β -alkoxy naphthylmethylphosphonic acids. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 163-166.	1.0	31
79	Metal Ions Play an Essential Catalytic Role in the Mechanism of Ketol-Acid Reductoisomerase. <i>Chemistry - A European Journal</i> , 2016, 22, 7427-7436.	1.7	30
80	Mycobacterial dynamin-like protein IniA mediates membrane fission. <i>Nature Communications</i> , 2019, 10, 3906.	5.8	30
81	Antimalarial activity of prodrugs of N-branched acyclic nucleoside phosphonate inhibitors of 6-oxopurine phosphoribosyltransferases. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 5502-5510.	1.4	29
82	Identification of Purple Acid Phosphatase Inhibitors by Fragment-Based Screening: Promising New Leads for Osteoporosis Therapeutics. <i>Chemical Biology and Drug Design</i> , 2012, 80, 665-674.	1.5	28
83	AIM-1: An Antibiotic-Degrading Metallohydrolase That Displays Mechanistic Flexibility. <i>Chemistry - A European Journal</i> , 2016, 22, 17704-17714.	1.7	28
84	Evaluation of the <i>Trypanosoma brucei</i> 6-oxopurine salvage pathway as a potential target for drug discovery. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006301.	1.3	28
85	Comparison of the three-dimensional structures of a humanized and a chimeric Fab of an anti- β -interferon antibody. <i>Journal of Molecular Recognition</i> , 1999, 12, 19-32.	1.1	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. <i>Journal of Molecular Biology</i> , 2000, 302, 853-872.	2.0	27
87	Visualization of the Reaction Trajectory and Transition State in a Hydrolytic Reaction Catalyzed by a Metalloenzyme. <i>Chemistry - A European Journal</i> , 2017, 23, 4778-4781.	1.7	27
88	Structural Basis for the Inhibition of Mycobacterial MmpL3 by NITD-349 and SPIRO. <i>Journal of Molecular Biology</i> , 2020, 432, 4426-4434.	2.0	27
89	Synthesis of purine N9-[2-hydroxy-3-O-(phosphonomethoxy)propyl] derivatives and their side-chain modified analogs as potential antimalarial agents. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 1222-1230.	1.4	25
90	Structural insights into substrate recognition by the type VII secretion system. <i>Protein and Cell</i> , 2020, 11, 124-137.	4.8	25

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91	Crystal Structures of <i>Staphylococcus aureus</i> Ketolâ€Acid Reductoisomerase in Complex with Two Transition State Analogues that Have Biocidal Activity. <i>Chemistry - A European Journal</i> , 2017, 23, 18289-18295.	1.7	24
92	Cryo-EM structure of mycobacterial cytochrome bd reveals two oxygen access channels. <i>Nature Communications</i> , 2021, 12, 4621.	5.8	24
93	Design of <i>Plasmodium vivax</i> Hypoxanthine-Guanine Phosphoribosyltransferase Inhibitors as Potential Antimalarial Therapeutics. <i>ACS Chemical Biology</i> , 2018, 13, 82-90.	1.6	22
94	Structure of <i>Mycobacterium tuberculosis</i> cytochrome bcc in complex with Q203 and TB47, two anti-TB drug candidates. <i>ELife</i> , 2021, 10, .	2.8	22
95	Synthesis and Evaluation of Novel Acyclic Nucleoside Phosphonates as Inhibitors of <i>Plasmodium falciparum</i> and Human 6â€Oxopurine Phosphoribosyltransferases. <i>ChemMedChem</i> , 2015, 10, 1707-1723.	1.6	21
96	Broad spectrum antibiotic-degrading metallo-Î²-lactamases are phylogenetically diverse. <i>Protein and Cell</i> , 2020, 11, 613-617.	4.8	21
97	The structureâ€activity relationship in herbicidal monosubstituted sulfonylureas. <i>Pest Management Science</i> , 2012, 68, 618-628.	1.7	20
98	Synthesis and evaluation of symmetric acyclic nucleoside bisphosphonates as inhibitors of the <i>Plasmodium falciparum</i> , <i>Plasmodium vivax</i> and human 6-oxopurine phosphoribosyltransferases and the antimalarial activity of their prodrugs. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 4008-4030.	1.4	20
99	Cryo-EM structure of trimeric <i>Mycobacterium smegmatis</i> succinate dehydrogenase with a membrane-anchor SdhF. <i>Nature Communications</i> , 2020, 11, 4245.	5.8	20
100	Structures of <i>Mycobacterium tuberculosis</i> Penicillin-Binding Protein 3 in Complex with Five Î²-Lactam Antibiotics Reveal Mechanism of Inactivation. <i>Molecular Pharmacology</i> , 2020, 97, 287-294.	1.0	20
101	The effect of novel [3-fluoro-(2-phosphonoethoxy)propyl]purines on the inhibition of <i>Plasmodium falciparum</i> , <i>Plasmodium vivax</i> and human hypoxanthineâ€guanineâ€(xanthine) phosphoribosyltransferases. <i>European Journal of Medicinal Chemistry</i> , 2013, 67, 81-89.	2.6	19
102	Structural basis of trehalose recycling by the ABC transporter LpqY-SugABC. <i>Science Advances</i> , 2020, 6, .	4.7	19
103	The structure of Human Microplasmin in Complex with Textilinin-1, an Aprotinin-like Inhibitor from the Australian Brown Snake. <i>PLoS ONE</i> , 2013, 8, e54104.	1.1	19
104	Commercial Herbicides Can Trigger the Oxidative Inactivation of Acetohydroxyacid Synthase. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4247-4251.	7.2	18
105	Acyclic Nucleoside Phosphonates Containing 9â€Deazahypoxanthine and a Fiveâ€Membered Heterocycle as Selective Inhibitors of Plasmodial 6â€Oxopurine Phosphoribosyltransferases. <i>ChemMedChem</i> , 2017, 12, 1133-1141.	1.6	18
106	Synthesis and Evaluation of Asymmetric Acyclic Nucleoside Bisphosphonates as Inhibitors of <i>Plasmodium falciparum</i> and Human Hypoxanthineâ€Guanineâ€(Xanthine) Phosphoribosyltransferase. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 7539-7554.	2.9	18
107	Crystallization and preliminary X-ray diffraction data for a purple acid phosphatase from sweet potato. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999, 55, 2051-2052.	2.5	17
108	Crystallization of the catalytic subunit of <i>Saccharomyces cerevisiae</i> acetohydroxyacid synthase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 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. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	17
110	Structural basis of resistance to herbicides that target acetohydroxyacid synthase. <i>Nature Communications</i> , 2022, 13, .	5.8	17
111	The Binding Mode of an ADP Analogue to a Metallohydrolase Mimics the Likely Transition State. <i>ChemBioChem</i> , 2019, 20, 1536-1540.	1.3	16
112	An unusual human IgM antibody with a protruding HCDR3 and high avidity for its peptide ligands. <i>Molecular Immunology</i> , 2000, 37, 295-310.	1.0	15
113	Phosphate-bound structure of an organophosphate-degrading enzyme from <i>Agrobacterium radiobacter</i> . <i>Journal of Inorganic Biochemistry</i> , 2012, 106, 19-22.	1.5	15
114	Crystal structures and inhibition of <i>Trypanosoma brucei</i> hypoxanthineâ€“guanine phosphoribosyltransferase. <i>Scientific Reports</i> , 2016, 6, 35894.	1.6	15
115	Purple acid phosphatase inhibitors as leads for osteoporosis chemotherapeutics. <i>European Journal of Medicinal Chemistry</i> , 2018, 157, 462-479.	2.6	15
116	Discovery, Synthesis and Evaluation of a Ketolâ€“Acid Reductoisomerase Inhibitor. <i>Chemistry - A European Journal</i> , 2020, 26, 8958-8968.	1.7	15
117	Crystal structures of some niobium and tantalum oxides. <i>Journal of Solid State Chemistry</i> , 1986, 61, 181-187.	1.4	14
118	A focused sulfated glycoconjugate Ugi library for probing heparan sulfate-binding angiogenic growth factors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 6190-6194.	1.0	14
119	Determination of the catalytic activity of binuclear metallohydrolases using isothermal titration calorimetry. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 389-398.	1.1	14
120	Synthesis of the <i>sec</i> â€“limonoid BCD Ring System Identifies a Hsp90 Chaperon Machinery (p23) Inhibitor. <i>Chemistry - A European Journal</i> , 2019, 25, 1451-1455.	1.7	14
121	Identification of a non-purple tartrate-resistant acid phosphatase: an evolutionary link to Ser/Thr protein phosphatases?. <i>BMC Research Notes</i> , 2008, 1, 78.	0.6	13
122	Penicillin inhibitors of purple acid phosphatase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 2555-2559.	1.0	13
123	Herbicides That Target Acetohydroxyacid Synthase Are Potent Inhibitors of the Growth of Drug-Resistant <i>Candida auris</i> . <i>ACS Infectious Diseases</i> , 2020, 6, 2901-2912.	1.8	13
124	Structure and mechanism of potent bifunctional Î²-lactam- and homoserine lactone-degrading enzymes from marine microorganisms. <i>Scientific Reports</i> , 2020, 10, 12882.	1.6	13
125	Cryo-EM snapshots of mycobacterial arabinosyltransferase complex EmbB2-AcpM2. <i>Protein and Cell</i> , 2020, 11, 505-517.	4.8	13
126	Synthesis, conformational studies, and biological properties of phosphonomethoxyethyl derivatives of nucleobases with a locked conformation via a pyrrolidine ring. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 4693-4705.	1.5	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. <i>Tetrahedron</i> , 2017, 73, 692-702.	1.0	12
128	Sulfide, sulfoxide and sulfone bridged acyclic nucleoside phosphonates as inhibitors of the Plasmodium falciparum and human 6-oxopurine phosphoribosyltransferases: Synthesis and evaluation. <i>European Journal of Medicinal Chemistry</i> , 2019, 183, 111667.	2.6	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. <i>European Journal of Medicinal Chemistry</i> , 2020, 193, 112178.	2.6	12
130	Crystallization of an Fv fragment from a human IgM cryoglobulin by a microseeding technique. <i>Journal of Crystal Growth</i> , 1993, 126, 229-244.	0.7	11
131	The Role of a FAD Cofactor in the Regulation of Acetohydroxyacid Synthase by Redox Signaling Molecules. <i>Journal of Biological Chemistry</i> , 2017, 292, 5101-5109.	1.6	11
132	Acyclic nucleoside phosphonates with unnatural nucleobases, favipiravir and allopurinol, designed as potential inhibitors of the human and Plasmodium falciparum 6-oxopurine phosphoribosyltransferases. <i>Tetrahedron</i> , 2018, 74, 5886-5897.	1.0	11
133	Crystallization and preliminary diffraction studies of native and selenomethionine CcmG (CycY, DsbE). <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 1293-1295.	2.5	10
134	Characterization and structural analysis of a potent anticoagulant phospholipase A2 from Pseudechis australis snake venom. <i>Toxicon</i> , 2016, 111, 37-49.	0.8	10
135	Pyrrrolidine nucleoside bisphosphonates as antituberculosis agents targeting hypoxanthine-guanine phosphoribosyltransferase. <i>European Journal of Medicinal Chemistry</i> , 2018, 159, 10-22.	2.6	10
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