

Renwick C J Dobson

List of Publications by Year in descending order

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145
papers

11,104
citations

117453

34
h-index

32761

100
g-index

151
all docs

151
docs citations

151
times ranked

20143
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td (edition</i>	4.3	1,430
3	The Pseudokinase MLKL Mediates Necroptosis via a Molecular Switch Mechanism. <i>Immunity</i> , 2013, 39, 443-453.	6.6	958
4	Activation of the pseudokinase MLKL unleashes the four-helix bundle domain to induce membrane localization and necroptotic cell death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15072-15077.	3.3	484
5	A Three-Ring Circus: Metabolism of the Three Proteogenic Aromatic Amino Acids and Their Role in the Health of Plants and Animals. <i>Frontiers in Molecular Biosciences</i> , 2018, 5, 29.	1.6	214
6	Bovine β -Lactoglobulin Is Dimeric Under Imitative Physiological Conditions: Dissociation Equilibrium and Rate Constants over the pH Range of 2.5-7.5. <i>Biophysical Journal</i> , 2012, 103, 303-312.	0.2	138
7	Structural and functional analysis of the GABARAP interaction motif (GIM). <i>EMBO Reports</i> , 2017, 18, 1382-1396.	2.0	129
8	Potential for Bacteriophage Endolysins to Supplement or Replace Antibiotics in Food Production and Clinical Care. <i>Antibiotics</i> , 2018, 7, 17.	1.5	115
9	The Crystal Structure of Three Site-directed Mutants of Escherichia coli Dihydrodipicolinate Synthase: Further Evidence for a Catalytic Triad. <i>Journal of Molecular Biology</i> , 2004, 338, 329-339.	2.0	103
10	Structural Basis of the Autophagy-Related LC3/Atg13 LIR Complex: Recognition and Interaction Mechanism. <i>Structure</i> , 2014, 22, 47-58.	1.6	93
11	Structure and Evolution of a Novel Dimeric Enzyme from a Clinically Important Bacterial Pathogen. <i>Journal of Biological Chemistry</i> , 2008, 283, 27598-27603.	1.6	85
12	Genome-wide binding and mechanistic analyses of Smc4-mediated epigenetic regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3535-44.	3.3	83
13	The crystal structures of native and (S)-lysine-bound dihydrodipicolinate synthase from Escherichia coli with improved resolution show new features of biological significance. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005, 61, 1116-1124.	2.5	77
14	Evolution of Quaternary Structure in a Homotetrameric Enzyme. <i>Journal of Molecular Biology</i> , 2008, 380, 691-703.	2.0	77
15	Crystal structure and kinetic study of dihydrodipicolinate synthase from <i>Mycobacterium tuberculosis</i> . <i>Biochemical Journal</i> , 2008, 411, 351-360.	1.7	74
16	The Quest for Novel Antimicrobial Compounds: Emerging Trends in Research, Development, and Technologies. <i>Antibiotics</i> , 2019, 8, 8.	1.5	67
17	Chromatic Bacteria – A Broad Host-Range Plasmid and Chromosomal Insertion Toolbox for Fluorescent Protein Expression in Bacteria. <i>Frontiers in Microbiology</i> , 2018, 9, 3052.	1.5	65
18	Molecular characterisation of a novel cassava associated circular ssDNA virus. <i>Virus Research</i> , 2012, 166, 130-135.	1.1	62

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19	Substrate-bound outward-open structure of a Na ⁺ -coupled sialic acid symporter reveals a new Na ⁺ site. <i>Nature Communications</i> , 2018, 9, 1753.	5.8	62
20	Tyrosine Latching of a Regulatory Gate Affords Allosteric Control of Aromatic Amino Acid Biosynthesis. <i>Journal of Biological Chemistry</i> , 2011, 286, 10216-10224.	1.6	56
21	Role of Arginine 138 in the Catalysis and Regulation of <i>Escherichia coli</i> Dihydrodipicolinate Synthase. <i>Biochemistry</i> , 2005, 44, 13007-13013.	1.2	51
22	Dihydrodipicolinate synthase (DHDPS) from <i>Escherichia coli</i> displays partial mixed inhibition with respect to its first substrate, pyruvate. <i>Biochimie</i> , 2004, 86, 311-315.	1.3	47
23	The structure of human interleukin-11 reveals receptor-binding site features and structural differences from interleukin-6. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 2277-2285.	2.5	47
24	Characterisation of the First Enzymes Committed to Lysine Biosynthesis in <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , 2012, 7, e40318.	1.1	45
25	The preparation of (S)-Aspartate semi-aldehyde appropriate for use in biochemical studies. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 265-267.	1.0	44
26	Substrate-mediated Stabilization of a Tetrameric Drug Target Reveals Achilles Heel in Anthrax. <i>Journal of Biological Chemistry</i> , 2010, 285, 5188-5195.	1.6	44
27	Engineering allosteric control to an unregulated enzyme by transfer of a regulatory domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2111-2116.	3.3	44
28	Fermentation of plant-based dairy alternatives by lactic acid bacteria. <i>Microbial Biotechnology</i> , 2022, 15, 1404-1421.	2.0	43
29	Federated repositories of X-ray diffraction images. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2008, 64, 810-814.	2.5	42
30	Inhibiting dihydrodipicolinate synthase across species: Towards specificity for pathogens?. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 842-844.	1.0	42
31	Dimerization of Bacterial Diaminopimelate Epimerase Is Essential for Catalysis. <i>Journal of Biological Chemistry</i> , 2013, 288, 9238-9248.	1.6	41
32	Protein-protein crosslinking in food: Proteomic characterisation methods, consequences and applications. <i>Trends in Food Science and Technology</i> , 2019, 86, 217-229.	7.8	41
33	Dihydrodipicolinate synthase is not inhibited by its substrate, (S)-aspartate beta-semialdehyde. <i>Biochemical Journal</i> , 2004, 377, 757-762.	1.7	39
34	Two new irreversible inhibitors of dihydrodipicolinate synthase: diethyl (E,E)-4-oxo-2,5-heptadienedioate and diethyl (E)-4-oxo-2-heptenedioate. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 995-998.	1.0	36
35	Conformationally constrained diketopimelic acid analogues as inhibitors of dihydrodipicolinate synthase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 460-463.	1.0	36
36	Discovery of a novel circular single-stranded DNA virus from porcine faeces. <i>Archives of Virology</i> , 2013, 158, 283-289.	0.9	36

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37	On the catalytic mechanism of bacteriophage endolysins: Opportunities for engineering. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140302.	1.1	35
38	How essential is the "essential"™ active-site lysine in dihydrodipicolinate synthase?. <i>Biochimie</i> , 2010, 92, 837-845.	1.3	33
39	Oxidative cross-linking of calprotectin occurs in vivo, altering its structure and susceptibility to proteolysis. <i>Redox Biology</i> , 2019, 24, 101202.	3.9	33
40	The structure of the extracellular domains of human interleukin 11± receptor reveals mechanisms of cytokine engagement. <i>Journal of Biological Chemistry</i> , 2020, 295, 8285-8301.	1.6	33
41	Crystal, Solution and In silico Structural Studies of Dihydrodipicolinate Synthase from the Common Grapevine. <i>PLoS ONE</i> , 2012, 7, e38318.	1.1	32
42	Irreversible inhibition of dihydrodipicolinate synthase by 4-oxo-heptenedioic acid analogues. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 9975-9983.	1.4	31
43	Conserved main-chain peptide distortions: A proposed role for Ile203 in catalysis by dihydrodipicolinate synthase. <i>Protein Science</i> , 2008, 17, 2080-2090.	3.1	31
44	Amino acid-derived defense metabolites from plants: A potential source to facilitate novel antimicrobial development. <i>Journal of Biological Chemistry</i> , 2021, 296, 100438.	1.6	31
45	Exploring the dihydrodipicolinate synthase tetramer: How resilient is the dimer-dimer interface?. <i>Archives of Biochemistry and Biophysics</i> , 2010, 494, 58-63.	1.4	30
46	Structural, kinetic and computational investigation of <i>Vitis vinifera</i> DHDPS reveals new insight into the mechanism of lysine-mediated allosteric inhibition. <i>Plant Molecular Biology</i> , 2013, 81, 431-446.	2.0	30
47	Conformational Dynamics and Allostery in Pyruvate Kinase. <i>Journal of Biological Chemistry</i> , 2016, 291, 9244-9256.	1.6	29
48	"Just a spoonful of sugar..." import of sialic acid across bacterial cell membranes. <i>Biophysical Reviews</i> , 2018, 10, 219-227.	1.5	29
49	Effects of Beneficial Mutations in <i>pykF</i> Gene Vary over Time and across Replicate Populations in a Long-Term Experiment with Bacteria. <i>Molecular Biology and Evolution</i> , 2018, 35, 202-210.	3.5	28
50	The epigenetic regulator <i>Smchd1</i> contains a functional GHKL-type ATPase domain. <i>Biochemical Journal</i> , 2016, 473, 1733-1744.	1.7	25
51	A bidentate Polycomb Repressive-Deubiquitinase complex is required for efficient activity on nucleosomes. <i>Nature Communications</i> , 2018, 9, 3932.	5.8	25
52	Avoidance of stochastic RNA interactions can be harnessed to control protein expression levels in bacteria and archaea. <i>ELife</i> , 2016, 5, .	2.8	25
53	L,L-Diaminopimelate Aminotransferase from <i>Chlamydomonas reinhardtii</i> : A Target for Algaecide Development. <i>PLoS ONE</i> , 2011, 6, e20439.	1.1	24
54	The Sodium Sialic Acid Symporter From <i>Staphylococcus aureus</i> Has Altered Substrate Specificity. <i>Frontiers in Chemistry</i> , 2018, 6, 233.	1.8	24

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55	Selective Nutrient Transport in Bacteria: Multicomponent Transporter Systems Reign Supreme. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 699222.	1.6	23
56	Purification, crystallization and preliminary X-ray diffraction studies to near-atomic resolution of dihydrodipicolinate synthase from methicillin-resistant <i>Staphylococcus aureus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 659-661.	0.7	20
57	The high-resolution structure of dihydrodipicolinate synthase from <i>Escherichia coli</i> bound to its first substrate, pyruvate. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 1092-1095.	0.7	20
58	Structure and inhibition of <i>N</i> -acetylneuraminase lyase from methicillin-resistant <i>Staphylococcus aureus</i> . <i>FEBS Letters</i> , 2016, 590, 4414-4428.	1.3	18
59	Structure-based mechanism of preferential complex formation by apoptosis signal-regulating kinases. <i>Science Signaling</i> , 2020, 13, .	1.6	18
60	Expression, purification, crystallization and preliminary X-ray diffraction analysis of dihydrodipicolinate synthase from <i>Bacillus anthracis</i> in the presence of pyruvate. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009, 65, 188-191.	0.7	17
61	The C-terminal domain of <i>Escherichia coli</i> dihydrodipicolinate synthase (DHDPS) is essential for maintenance of quaternary structure and efficient catalysis. <i>Biochemical and Biophysical Research Communications</i> , 2009, 380, 802-806.	1.0	17
62	The quaternary structure of pyruvate kinase type 1 from <i>Escherichia coli</i> at low nanomolar concentrations. <i>Biochimie</i> , 2010, 92, 116-120.	1.3	17
63	Purification, crystallization, small-angle X-ray scattering and preliminary X-ray diffraction analysis of the SH2 domain of the Csk-homologous kinase. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 336-339.	0.7	17
64	Dual diaminopimelate biosynthesis pathways in <i>Bacteroides fragilis</i> and <i>Clostridium thermocellum</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 1162-1168.	1.1	17
65	Exploring the structure of glutamate racemase from <i>Mycobacterium tuberculosis</i> as a template for anti-mycobacterial drug discovery. <i>Biochemical Journal</i> , 2016, 473, 1267-1280.	1.7	17
66	A tetrameric structure is not essential for activity in dihydrodipicolinate synthase (DHDPS) from <i>Mycobacterium tuberculosis</i> . <i>Archives of Biochemistry and Biophysics</i> , 2011, 512, 154-159.	1.4	16
67	Structural and Dynamic Requirements for Optimal Activity of the Essential Bacterial Enzyme Dihydrodipicolinate Synthase. <i>PLoS Computational Biology</i> , 2012, 8, e1002537.	1.5	16
68	L,L-diaminopimelate aminotransferase (DapL): a putative target for the development of narrow-spectrum antibacterial compounds. <i>Frontiers in Microbiology</i> , 2014, 5, 509.	1.5	16
69	Ultra-high resolution crystal structure of recombinant caprine β -lactoglobulin. <i>FEBS Letters</i> , 2014, 588, 3816-3822.	1.3	16
70	Functional and solution structure studies of amino sugar deacetylase and deaminase enzymes from <i>Staphylococcus aureus</i> . <i>FEBS Letters</i> , 2019, 593, 52-66.	1.3	16
71	Mechanism of NanR gene repression and allosteric induction of bacterial sialic acid metabolism. <i>Nature Communications</i> , 2021, 12, 1988.	5.8	16
72	Mutating the Tight-Dimer Interface of Dihydrodipicolinate Synthase Disrupts the Enzyme Quaternary Structure: Toward a Monomeric Enzyme. <i>Biochemistry</i> , 2008, 47, 12108-12117.	1.2	15

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73	Dihydrodipicolinate Synthase: Structure, Dynamics, Function, and Evolution. <i>Sub-Cellular Biochemistry</i> , 2017, 83, 271-289.	1.0	15
74	The purification, crystallization and preliminary X-ray diffraction analysis of dihydrodipicolinate synthase from <i>Clostridium botulinum</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 206-208.	0.7	14
75	Crystallization and preliminary X-ray analysis of dihydrodipicolinate synthase from <i>Clostridium botulinum</i> in the presence of its substrate pyruvate. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009, 65, 253-255.	0.7	14
76	Characterization of monomeric dihydrodipicolinate synthase variant reveals the importance of substrate binding in optimizing oligomerization. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 1900-1909.	1.1	14
77	Genomic and Biochemical Analysis of the Diaminopimelate and Lysine Biosynthesis Pathway in <i>Verrucomicrobium spinosum</i> : Identification and Partial Characterization of L,L-Diaminopimelate Aminotransferase and UDP-N-Acetylmuramoylalanyl-D-glutamyl-2,6-meso-Diaminopimelate Ligase. <i>Frontiers in Microbiology</i> , 2012, 3, 183.	1.5	14
78	Identification of the bona fide DHDPS from a common plant pathogen. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 1869-1883.	1.5	14
79	Modifying the resolving cysteine affects the structure and hydrogen peroxide reactivity of peroxiredoxin 2. <i>Journal of Biological Chemistry</i> , 2021, 296, 100494.	1.6	14
80	Aromatic residues in the C-terminal helix of human apoC-I mediate phospholipid interactions and particle morphology. <i>Journal of Lipid Research</i> , 2009, 50, 1384-1394.	2.0	13
81	Destabilization of the Homotetrameric Assembly of 3-Deoxy-d-Arabino-Heptulosonate-7-Phosphate Synthase from the Hyperthermophile <i>Pyrococcus furiosus</i> Enhances Enzymatic Activity. <i>Journal of Molecular Biology</i> , 2014, 426, 656-673.	2.0	13
82	On the structure and function of <i>Escherichia coli</i> YjhC: An oxidoreductase involved in bacterial sialic acid metabolism. <i>Proteins: Structure, Function and Bioinformatics</i> , 2020, 88, 654-668.	1.5	13
83	The basis for non-canonical ROK family function in the N-acetylmannosamine kinase from the pathogen <i>Staphylococcus aureus</i> . <i>Journal of Biological Chemistry</i> , 2020, 295, 3301-3315.	1.6	13
84	Specificity versus catalytic potency: The role of threonine 44 in <i>Escherichia coli</i> dihydrodipicolinate synthase mediated catalysis. <i>Biochimie</i> , 2009, 91, 1036-1044.	1.3	12
85	Disruption of quaternary structure in <i>Escherichia coli</i> dihydrodipicolinate synthase (DHDPS) generates a functional monomer that is no longer inhibited by lysine. <i>Archives of Biochemistry and Biophysics</i> , 2010, 503, 202-206.	1.4	12
86	Crystallization and preliminary X-ray diffraction analysis of diaminopimelate epimerase from <i>Escherichia coli</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010, 66, 37-40.	0.7	11
87	Cloning, expression and crystallization of dihydrodipicolinate reductase from methicillin-resistant <i>Staphylococcus aureus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010, 66, 57-60.	0.7	11
88	Cloning, expression, purification and crystallization of dihydrodipicolinate synthase from the grapevine <i>Vitis vinifera</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 1537-1541.	0.7	11
89	Cloning, expression, purification, crystallization and preliminary X-ray diffraction studies of N-acetylneuraminase from methicillin-resistant <i>Staphylococcus aureus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013, 69, 306-312.	0.7	11
90	Inhibition of <i>Arabidopsis</i> growth by the allelopathic compound azetidine-2-carboxylate is due to the low amino acid specificity of cytosolic prolyl-tRNA synthetase. <i>Plant Journal</i> , 2016, 88, 236-246.	2.8	11

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91	New flow control systems in capillaries: off valves. <i>Lab on A Chip</i> , 2021, 21, 205-214.	3.1	11
92	Cloning, expression, purification and crystallization of dihydrodipicolinate synthase from the psychrophile <i>Shewanella benthica</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010, 66, 1511-1516.	0.7	10
93	Development of the procedures for high-yield expression and rapid purification of active recombinant Csk-homologous kinase (CHK): Comparison of the catalytic activities of CHK and CSK. <i>Protein Expression and Purification</i> , 2010, 74, 139-147.	0.6	10
94	Grappling with anisotropic data, pseudo-merohedral twinning and pseudo-translational noncrystallographic symmetry: a case study involving pyruvate kinase. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016, 72, 512-519.	1.1	10
95	Multi-wavelength analytical ultracentrifugation as a tool to characterise protein-DNA interactions in solution. <i>European Biophysics Journal</i> , 2020, 49, 819-827.	1.2	10
96	The Molecular Basis for Escherichia coli O157:H7 Phage FAHEc1 Endolysin Function and Protein Engineering to Increase Thermal Stability. <i>Viruses</i> , 2021, 13, 1101.	1.5	10
97	Two complete syntheses of (S)-aspartate semi-aldehyde and demonstration that γ -2-tetrahydroisophthalic acid is a non-competitive inhibitor of dihydrodipicolinate synthase. <i>Arkivoc</i> , 2004, 2004, 166-177.	0.3	10
98	Biochemical Characterization of UDP-N-acetylmuramoyl-L-alanyl-D-glutamate: meso-2,6-diaminopimelate ligase (MurE) from <i>Verrucomicrobium spinosum</i> DSM 4136T. <i>PLoS ONE</i> , 2013, 8, e66458.	1.1	9
99	Differential response of orthologous L,diaminopimelate aminotransferases (DapL) to enzyme inhibitory antibiotic lead compounds. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 523-530.	1.4	9
100	Cloning, expression, purification and crystallization of dihydrodipicolinate synthase from <i>Agrobacterium tumefaciens</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 1040-1047.	0.7	8
101	Cloning, expression, purification, crystallization and preliminary X-ray diffraction analysis of N-acetylmannosamine-6-phosphate 2-epimerase from methicillin-resistant <i>Staphylococcus aureus</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 650-655.	0.4	8
102	Comparing the Conformational Stability of Pyruvate Kinase in the Gas Phase and in Solution. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 685-692.	1.2	8
103	Structure and Function of N-Acetylmannosamine Kinases from Pathogenic Bacteria. <i>ACS Omega</i> , 2020, 5, 30923-30936.	1.6	8
104	How plants solubilise seed fats: revisiting oleosin structure and function to inform commercial applications. <i>Biophysical Reviews</i> , 2022, 14, 257-266.	1.5	8
105	Crystallization and preliminary X-ray diffraction analysis of L,diaminopimelate aminotransferase (DapL) from <i>Chlamydomonas reinhardtii</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 140-143.	0.7	7
106	Sialic Acid Derivatives Inhibit SiaT Transporters and Delay Bacterial Growth. <i>ACS Chemical Biology</i> , 2022, 17, 1890-1900.	1.6	7
107	In silico modeling of the Menkes copper-translocating P-type ATPase 3rd metal binding domain predicts that phosphorylation regulates copper-binding. <i>BioMetals</i> , 2011, 24, 477-487.	1.8	6
108	Identification and Partial Characterization of a Novel UDP-N-Acetylenolpyruvoylglucosamine Reductase/UDP-N-Acetylmuramate:Alanine Ligase Fusion Enzyme from <i>Verrucomicrobium spinosum</i> DSM 4136T. <i>Frontiers in Microbiology</i> , 2016, 7, 362.	1.5	6

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109	Crystal structures and kinetic analyses of <i>N</i> -acetylmannosamine-6-phosphate 2-epimerases from <i>Fusobacterium nucleatum</i> and <i>Vibrio cholerae</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2018, 74, 431-440.	0.4	6
110	Structure-function analyses of two plant meso-diaminopimelate decarboxylase isoforms reveal that active-site gating provides stereochemical control. <i>Journal of Biological Chemistry</i> , 2019, 294, 8505-8515.	1.6	6
111	The structure-function relationship of a signaling-competent, dimeric Reelin fragment. <i>Structure</i> , 2021, 29, 1156-1170.e6.	1.6	6
112	Using cryo-EM to uncover mechanisms of bacterial transcriptional regulation. <i>Biochemical Society Transactions</i> , 2021, 49, 2711-2726.	1.6	6
113	The crystal structure of dihydrodipicolinate synthase from <i>Escherichia coli</i> with bound pyruvate and succinic acid semi-aldehyde: Unambiguous resolution of the stereochemistry of the condensation product. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, n/a-n/a.	1.5	5
114	Cloning, expression, purification, crystallization and preliminary X-ray diffraction analysis of <i>N</i> -acetylmannosamine kinase from methicillin-resistant <i>Staphylococcus aureus</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 643-649.	0.4	5
115	Cloning, expression, purification, crystallization and X-ray diffraction analysis of dihydrodipicolinate synthase from the human pathogenic bacterium <i>Bartonella henselae</i> strain Houston-1 at 2.1 Å resolution. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2016, 72, 2-9.	0.4	5
116	Potential pathogenicity determinants in the genome of <i>Candidatus Liberibacter solanacearum</i> , the causal agent of zebra chip disease of potato. <i>Australasian Plant Pathology</i> , 2018, 47, 119-134.	0.5	5
117	Substrate Locking Promotes Dimer-Dimer Docking of an Enzyme Antibiotic Target. <i>Structure</i> , 2018, 26, 948-959.e5.	1.6	5
118	Analytical ultracentrifugation: still the gold standard that offers multiple solutions. <i>European Biophysics Journal</i> , 2020, 49, 673-676.	1.2	5
119	Quaternary variations in the structural assembly of <i>N</i> -acetylglucosamine-6-phosphate deacetylase from <i>Pasteurella multocida</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2021, 89, 81-93.	1.5	5
120	The fitness challenge of studying molecular adaptation. <i>Biochemical Society Transactions</i> , 2019, 47, 1533-1542.	1.6	5
121	The structure and function of modular <i>Escherichia coli</i> O157:H7 bacteriophage FTBEc1 endolysin, LysT84: defining a new endolysin catalytic subfamily. <i>Biochemical Journal</i> , 2022, 479, 207-223.	1.7	5
122	Capillaric field effect transistors. <i>Microsystems and Nanoengineering</i> , 2022, 8, 33.	3.4	5
123	The self-association and thermal denaturation of caprine and bovine β -lactoglobulin. <i>European Biophysics Journal</i> , 2018, 47, 739-750.	1.2	4
124	The lid domain is important, but not essential, for catalysis of <i>Escherichia coli</i> pyruvate kinase. <i>European Biophysics Journal</i> , 2020, 49, 761-772.	1.2	4
125	On the utility of fluorescence-detection analytical ultracentrifugation in probing biomolecular interactions in complex solutions: a case study in milk. <i>European Biophysics Journal</i> , 2020, 49, 677-685.	1.2	4
126	Structure-function analyses of alkylhydroperoxidase D from <i>Streptococcus pneumoniae</i> reveal an unusual three-cysteine active site architecture. <i>Journal of Biological Chemistry</i> , 2020, 295, 2984-2999.	1.6	4

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127	Transistor off-Valve Based Feedback, Metering and Logic Operations in Capillary Microfluidics. , 2021, , .		4
128	N-acetylmannosamine-6-phosphate 2-epimerase uses a novel substrate-assisted mechanism to catalyze amino sugar epimerization. Journal of Biological Chemistry, 2021, 297, 101113.	1.6	4
129	The crystal structure of dihydrodipicolinate reductase from the human-pathogenic bacterium <i>Bartonella henselae</i> strain Houston-1 at 2.3 Å resolution. Acta Crystallographica Section F, Structural Biology Communications, 2016, 72, 885-891.	0.4	4
130	Microfluidics for Small-Angle X-ray Scattering. , 0, , .		3
131	Crystallization and preliminary X-ray diffraction analysis of dihydrodipicolinate synthase 2 from <i>Arabidopsis thaliana</i> . Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 1386-1390.	0.7	2
132	The purification, crystallization and preliminary X-ray diffraction analysis of two isoforms of meso-diaminopimelate decarboxylase from <i>Arabidopsis thaliana</i> . Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 663-668.	0.4	2
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