Aaron J Oakley

List of Publications by Year
in descending order

91	4,357	87888 38	114465 63
papers	citations	h-index	g-index

99	99	99	5300
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Glutathione transferases: a structural perspective. Drug Metabolism Reviews, 2011, 43, 138-151.	3.6	298
2	Targeting the JNK MAPK cascade for inhibition: basic science and therapeutic potential. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2004, 1697, 89-101.	2.3	231
3	Glutathione transferases: new functions. Current Opinion in Structural Biology, 2005, 15, 716-723.	5.7	181
4	The structures of human glutathione transferase P1-1 in complex with glutathione and various inhibitors at high resolution. Journal of Molecular Biology, 1997, 274, 84-100.	4.2	172
5	The 2.0-Ã... Crystal Structure of eqFP611, a Far Red Fluorescent Protein from the Sea Anemone Entacmaea quadricolor. Journal of Biological Chemistry, 2003, 278, 44626-44631.	3.4	158
6	Human theta class glutathione transferase: the crystal structure reveals a sulfate-binding pocket within a buried active site. Structure, 1998, 6, 309-322.	3.3	147
7	The 2.2 Ã... Crystal Structure of a Pocilloporin Pigment Reveals a Nonplanar Chromophore Conformation. Structure, 2003, 11, 275-284.	3.3	127
8	The Three-Dimensional Structure of the Human Pi Class Glutathione Transferase P1-1 in Complex with the Inhibitor Ethacrynic Acid and Its Glutathione Conjugate,. Biochemistry, 1997, 36, 576-585.	2.5	125
9	The ligandin (non-substrate) binding site of human pi class glutathione transferase is located in the electrophile binding site (H-site). Journal of Molecular Biology, 1999, 291, 913-926.	4.2	121
10	A Molecular Mousetrap Determines Polarity of Termination of DNA Replication in E. coli. Cell, 2006, 125, 1309-1319.	28.9	114
11	The Identification and Structural Characterization of C7orf24 as Î³-Glutamyl Cyclotransferase. Journal of Biological Chemistry, 2008, 283, 22031-22042.	3.4	110
12	DNA Replication Is the Target for the Antibacterial Effects of Nonsteroidal Anti-Inflammatory Drugs. Chemistry and Biology, 2014, 21, 481-487.	6.0	102
13	Crystal Structure of Haloalkane Dehalogenase LinB from Sphingomonas paucimobilis UT26 at 0.95 Ã... Resolution:â€‰ Dynamics of Catalytic Residues,. Biochemistry, 2004, 43, 870-878.	2.5	82
14	Identification, characterization and structure of a new Delta class glutathione transferase isoenzyme. Biochemical Journal, 2005, 388, 763-771.	3.7	82
15	Structural basis for cofactor-independent dioxygenation of N -heteroaromatic compounds at the Î±/Î²-hydrolase fold. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 657-662.	7.1	77
16	Structural and Functional Basis of Resistance to Neuraminidase Inhibitors of Influenza B Viruses. Journal of Medicinal Chemistry, 2010, 53, 6421-6431.	6.4	75
17	The crystal structures of glutathione Sâ€transferases isozymes 1â€“3 and 1â€“4 from Anopheles dirus species B. Protein Science, 2001, 10, 2176-2185.	7.6	73
18	Multifunctional Role of Tyr 108 in the Catalytic Mechanism of Human Glutathione Transferase P1-1. Crystallographic and Kinetic Studies on the Y108F Mutant Enzymeâ€,â€¡. Biochemistry, 1997, 36, 6207-6217.	2.5	65

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19	Flexibility revealed by the 1.85â€…Ã… crystal structure of the Î² sliding-clamp subunit ofEscherichia coliDNA polymerase III. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 1192-1199.	2.5	64
20	Magneto-Optic Spectroscopy of a Protein Tetramer Binding Two Exciton-Coupled Chlorophylls. Journal of the American Chemical Society, 2006, 128, 3649-3658.	13.7	63
21	Crystal and Solution Structures of the Helicase-binding Domain of Escherichia coli Primase. Journal of Biological Chemistry, 2005, 280, 11495-11504.	3.4	62
22	Selective reduction of hydroperoxyeicosatetraenoic acids to their hydroxy derivatives by apolipoprotein D: implications for lipid antioxidant activity and Alzheimer's disease. Biochemical Journal, 2012, 442, 713-721.	3.7	62
23	Three-dimensional structure of (1,4)-Î²-d-mannan mannanohydrolase from tomato fruit. Protein Science, 2005, 14, 1233-1241.	7.6	60
24	Structural Insights into the Dehydroascorbate Reductase Activity of Human Omega-Class Glutathione Transferases. Journal of Molecular Biology, 2012, 420, 190-203.	4.2	60
25	Evidence for an Induced-Fit Mechanism Operating in Pi Class Glutathione Transferases,. Biochemistry, 1998, 37, 9912-9917.	2.5	56
26	T Cell Determinants Incorporating Î²-Amino Acid Residues Are Protease Resistant and Remain Immunogenic In Vivo. Journal of Immunology, 2005, 175, 3810-3818.	0.8	56
27	Mechanistic behavior and subtle key events during DNA clamp opening and closing in T4 bacteriophage. International Journal of Biological Macromolecules, 2022, 208, 11-19.	7.5	54
28	Fragment-Based Screening by Protein Crystallography: Successes and Pitfalls. International Journal of Molecular Sciences, 2012, 13, 12857-12879.	4.1	50
29	Structural Flexibility Modulates the Activity of Human Glutathione Transferase P1-1. Journal of Biological Chemistry, 1996, 271, 16193-16198.	3.4	49
30	The glutathione conjugate of ethacrynic acid can bind to human pi class glutathione transferase P1-1 in two different modes. FEBS Letters, 1997, 419, 32-36.	2.8	49
31	Exploring the Structure and Activity of Haloalkane Dehalogenase from Sphingomonas paucimobilis UT26: Evidence for Product- and Water-Mediated Inhibition,. Biochemistry, 2002, 41, 4847-4855.	2.5	49
32	The Anti-cancer Drug Chlorambucil as a Substrate for the Human Polymorphic Enzyme Glutathione Transferase P1-1: Kinetic Properties and Crystallographic Characterisation of Allelic Variants. Journal of Molecular Biology, 2008, 380, 131-144.	4.2	49
33	Discovery of Lead Compounds Targeting the Bacterial Sliding Clamp Using a Fragment-Based Approach. Journal of Medicinal Chemistry, 2014, 57, 2799-2806.	6.4	49
34	Structure and function of the bacterial mechanosensitive channel of large conductance. Protein Science, 1999, 8, 1915-1921.	7.6	48
35	GSTO1-1 plays a pro-inflammatory role in models of inflammation, colitis and obesity. Scientific Reports, 2017, 7, 17832.	3.3	47
36	S-(4-Nitrophenacyl)glutathione is a specific substrate for glutathione transferase omega 1-1. Analytical Biochemistry, 2008, 374, 25-30.	2.4	44

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37	Haloalkane Dehalogenase LinB fromSphingomonas paucimobilisUT26:Â X-ray Crystallographic Studies of Dehalogenation of Brominated Substratesâ€‚â€¡. Biochemistry, 2003, 42, 10104-10112.	2.5	43
38	The structure of Aspergillus niger phytase PhyA in complex with a phytate mimetic. Biochemical and Biophysical Research Communications, 2010, 397, 745-749.	2.1	42
39	Replisome speed determines the efficiency of the Tusâ˜Ter replication termination barrier. Nature, 2015, 525, 394-398.	27.8	42
40	Structure and function of a spectrin-like regulator of bacterial cytokinesis. Nature Communications, 2014, 5, 5421.	12.8	41
41	Polymorphism of glutathione transferase Omega 1 in a population exposed to a high environmental arsenic burden. Pharmacogenetics and Genomics, 2008, 18, 1-10.	1.5	40
42	Binding Inhibitors of the Bacterial Sliding Clamp by Design. Journal of Medicinal Chemistry, 2011, 54, 4831-4838.	6.4	38
43	Effects of i-propanol on the structural dynamics ofThermomyces lanuginosalipase revealed by tryptophan fluorescence. Protein Science, 2001, 10, 339-351.	7.6	37
44	Structural Insights into Omega-Class Glutathione Transferases: A Snapshot of Enzyme Reduction and Identification of a Non-Catalytic Ligandin Site. PLoS ONE, 2013, 8, e60324.	2.5	36
45	Intramolecular binding mode of the C-terminus ofEscherichia colisingle-stranded DNA binding protein determined by nuclear magnetic resonance spectroscopy. Nucleic Acids Research, 2014, 42, 2750-2757.	14.5	36
46	Proofreading exonuclease on a tether: the complex between the E. coli DNA polymerase III subunits Î±, Îµ, Î¸ and Î² reveals a highly flexible arrangement of the proofreading domain. Nucleic Acids Research, 2013, 41, 5354-5367.	14.5	34
47	Characterization of a family 11 xylanase fromBacillus subtillisB230 used for paper bleaching. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 627-636.	2.5	33
48	Identification and Characterization of Î³-Glutamylamine Cyclotransferase, an Enzyme Responsible for Î³-Glutamyl-Ïµ-lysine Catabolism. Journal of Biological Chemistry, 2010, 285, 9642-9648.	3.4	33
49	A structural view of bacterial DNA replication. Protein Science, 2019, 28, 990-1004.	7.6	32
50	Mutations of gly to ala in human glutathione transferase P1-1 affect helix 2 (G-site) and induce positive cooperativity in the binding of glutathione 1 1Edited by R. Huber. Journal of Molecular Biology, 1998, 284, 1717-1725.	4.2	29
51	Molecular basis for RNA polymerase-dependent transcription complex recycling by the helicase-like motor protein HelD. Nature Communications, 2020, 11, 6420.	12.8	29
52	Solution Structure of Glutathione Bound to Human Glutathione Transferase P1-1:Â Comparison of NMR Measurements with the Crystal Structureâ€. Biochemistry, 1998, 37, 3020-3027.	2.5	28
53	Bacterial Sliding Clamp Inhibitors that Mimic the Sequential Binding Mechanism of Endogenous Linear Motifs. Journal of Medicinal Chemistry, 2015, 58, 4693-4702.	6.4	28
54	Malonate-bound structure of the glycerophosphodiesterase fromEnterobacter aerogenes(GpdQ) and characterization of the native Fe²⁺metal-ion preference. Acta Crystallographica Section F: Structural Biology Communications, 2008, 64, 681-685.	0.7	24

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55	Novel Folding and Stability Defects Cause a Deficiency of Human Glutathione Transferase Omega 1. Journal of Biological Chemistry, 2011, 286, 4271-4279.	3.4	24
56	Time to Face the Fats: What Can Mass Spectrometry Reveal about the Structure of Lipids and Their Interactions with Proteins?. Journal of the American Society for Mass Spectrometry, 2012, 23, 1441-1449.	2.8	24
57	Molecular Dynamics Analysis of Apolipoprotein-D - Lipid Hydroperoxide Interactions: Mechanism for Selective Oxidation of Met-93. PLoS ONE, 2012, 7, e34057.	2.5	24
58	Mechanism and Putative Structure of B0-like Neutral Amino Acid Transporters. Journal of Membrane Biology, 2006, 213, 111-118.	2.1	23
59	Structural and Thermodynamic Dissection of Linear Motif Recognition by the E. coli Sliding Clamp. Journal of Medicinal Chemistry, 2013, 56, 8665-8673.	6.4	23
60	Sodium translocation by the iminoglycinuria associated imino transporter (SLC6A20). Molecular Membrane Biology, 2009, 26, 333-346.	2.0	21
61	Thermodynamic Description of the Effect of the Mutation Y49F on Human Glutathione Transferase P1-1 in Binding with Glutathione and the Inhibitor S-Hexylglutathione. Journal of Biological Chemistry, 2003, 278, 46938-46948.	3.4	20
62	Comparison of negative and positive ion electrospray ionization mass spectra of calmodulin and its complex with trifluoperazine. Rapid Communications in Mass Spectrometry, 2005, 19, 2123-2130.	1.5	19
63	Efficient synthesis and antioxidant activity of coelenterazine analogues. Tetrahedron Letters, 2014, 55, 6212-6215.	1.4	19
64	Dynamics of Open DNA Sliding Clamps. PLoS ONE, 2016, 11, e0154899.	2.5	19
65	Structures of thermolabile mutants of human glutathione transferase P1-1 1 1Edited by R. Huber. Journal of Molecular Biology, 2000, 302, 295-302.	4.2	17
66	Rational Design of a 3₁₀â€Helical PIPâ€Box Mimetic Targeting PCNA, the Human Sliding Clamp. Chemistry - A European Journal, 2018, 24, 11325-11331.	3.3	16
67	Identification and characterisation of new inhibitors for the human hematopoietic prostaglandin D 2 synthase. European Journal of Medicinal Chemistry, 2010, 45, 447-454.	5.5	15
68	Hotspots of age-related protein degradation: the importance of neighboring residues for the formation of non-disulfide crosslinks derived from cysteine. Biochemical Journal, 2017, 474, 2475-2487.	3.7	15
69	Anisotropic atomic motions in high-resolution protein crystallography molecular dynamics simulations. Physical Biology, 2007, 4, 79-90.	1.8	14
70	Reviewing Hit Discovery Literature for Difficult Targets: Glutathione Transferase Omega-1 as an Example. Journal of Medicinal Chemistry, 2018, 61, 7448-7470.	6.4	14
71	Fragment-Based Discovery of Inhibitors of the Bacterial DnaG-SSB Interaction. Antibiotics, 2018, 7, 14.	3.7	14
72	Identification of a novel tetrameric structure for human apolipoprotein-D. Journal of Structural Biology, 2018, 203, 205-218.	2.8	12

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73	Development of Benzenesulfonamide Derivatives as Potent Glutathione Transferase Omega-1 Inhibitors. Journal of Medicinal Chemistry, 2020, 63, 2894-2914.	6.4	12
74	Expression, purification, crystallization, and NMR studies of the helicase interaction domain of Escherichia coli DnaG primase. Protein Expression and Purification, 2004, 33, 304-310.	1.3	11
75	Macromolecular Crystallography As A Tool For Investigating Drug, Enzyme And Receptor Interactions. Clinical and Experimental Pharmacology and Physiology, 2000, 27, 145-151.	1.9	9
76	Crystallization and diffraction data of 1H-3-hydroxy-4-oxoquinoline 2,4-dioxygenase: a cofactor-free oxygenase of the Î±/Î²-hydrolase family. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 378-381.	0.7	8
77	Structural and biophysical analyses of the skeletal dihydropyridine receptor Î² subunit Î²1a reveal critical roles of domain interactions for stability. Journal of Biological Chemistry, 2017, 292, 8401-8411.	3.4	7
78	Crystal structures and biochemical characterization of DNA sliding clamps from three Gram-negative bacterial pathogens. Journal of Structural Biology, 2018, 204, 396-405.	2.8	6
79	Mechanism of transcription modulation by the transcription-repair coupling factor. Nucleic Acids Research, 2022, 50, 5688-5712.	14.5	6
80	Atomistic Insights into Photoprotein Formation: Computational Prediction of the Properties of Coelenterazine and Oxygen Binding in Obelin. Journal of Computational Chemistry, 2020, 41, 587-603.	3.3	5
81	Preliminary X-ray crystallographic studies of a newly defined human theta-class glutathione transferase. Acta Crystallographica Section D: Biological Crystallography, 1998, 54, 148-150.	2.5	4
82	Crystallization of two glutathione S-transferases from an unusual gene family. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 870-872.	2.5	4
83	Valine 10 May Act as a Driver for Product Release from the Active Site of Human Glutathione Transferase P1-1â€‚â€¡. Biochemistry, 2000, 39, 15961-15970.	2.5	3
84	RNA polymerases from low G+C gram-positive bacteria. Transcription, 2021, 12, 1-11.	3.1	3
85	Purification, crystallization and preliminary crystallographic analysis of DehIVa, a dehalogenase fromBurkholderia cepaciaMBA4. Acta Crystallographica Section F: Structural Biology Communications, 2005, 61, 271-273.	0.7	2
86	Molecular interactions of <scp>STAC</scp> proteins with skeletal muscle dihydropyridine receptor and excitationâ€‰contraction coupling. Protein Science, 2022, 31, e4311.	7.6	2
87	Multiple classes and isoforms of the RNA polymerase recycling motor protein HelD. MicrobiologyOpen, 2021, 10, e1251.	3.0	1
88	Proposed mechanism for monomethylarsonate reductase activity of human omega-class glutathione transferase GSTO1-1. Biochemical and Biophysical Research Communications, 2022, 590, 7-13.	2.1	1
89	Structural and Binding Studies of the Cav1.1 Î²1A Subunit. Biophysical Journal, 2014, 106, 446a.	0.5	0
90	Rational Design of a 310 -Helical PIP-Box Mimetic Targeting PCNA, the Human Sliding Clamp. Chemistry - A European Journal, 2018, 24, 11238-11238.	3.3	0

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91	A molecular mousetrap determines polarity of replication fork arrest at Tusâ€•Ter sites in E. coli. FASEB Journal, 2006, 20, A911.	0.5	0