

# Aaron J Oakley

## List of Publications by Year in descending order

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91  
papers

4,357  
citations

87888

38  
h-index

114465

63  
g-index

99  
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99  
docs citations

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times ranked

5300  
citing authors

#	ARTICLE	IF	CITATIONS
1	Proposed mechanism for monomethylarsonate reductase activity of human omega-class glutathione transferase GSTO1-1. <i>Biochemical and Biophysical Research Communications</i> , 2022, 590, 7-13.	2.1	1
2	Mechanistic behavior and subtle key events during DNA clamp opening and closing in T4 bacteriophage. <i>International Journal of Biological Macromolecules</i> , 2022, 208, 11-19.	7.5	54
3	Molecular interactions of <scp>STAC</scp> proteins with skeletal muscle dihydropyridine receptor and excitationâ€contraction coupling. <i>Protein Science</i> , 2022, 31, e4311.	7.6	2
4	Mechanism of transcription modulation by the transcription-repair coupling factor. <i>Nucleic Acids Research</i> , 2022, 50, 5688-5712.	14.5	6
5	RNA polymerases from low G+C gram-positive bacteria. <i>Transcription</i> , 2021, 12, 1-11.	3.1	3
6	Multiple classes and isoforms of the RNA polymerase recycling motor protein HelD. <i>MicrobiologyOpen</i> , 2021, 10, e1251.	3.0	1
7	Atomistic Insights into Photoprotein Formation: Computational Prediction of the Properties of Coelenterazine and Oxygen Binding in Obelin. <i>Journal of Computational Chemistry</i> , 2020, 41, 587-603.	3.3	5
8	Molecular basis for RNA polymerase-dependent transcription complex recycling by the helicase-like motor protein HelD. <i>Nature Communications</i> , 2020, 11, 6420.	12.8	29
9	Development of Benzenesulfonamide Derivatives as Potent Glutathione Transferase Omega-1 Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 2894-2914.	6.4	12
10	A structural view of bacterial DNA replication. <i>Protein Science</i> , 2019, 28, 990-1004.	7.6	32
11	Reviewing Hit Discovery Literature for Difficult Targets: Glutathione Transferase Omega-1 as an Example. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 7448-7470.	6.4	14
12	Crystal structures and biochemical characterization of DNA sliding clamps from three Gram-negative bacterial pathogens. <i>Journal of Structural Biology</i> , 2018, 204, 396-405.	2.8	6
13	Rational Design of a 310 -Helical PIP-Box Mimetic Targeting PCNA, the Human Sliding Clamp. <i>Chemistry - A European Journal</i> , 2018, 24, 11238-11238.	3.3	0
14	Fragment-Based Discovery of Inhibitors of the Bacterial DnaG-SSB Interaction. <i>Antibiotics</i> , 2018, 7, 14.	3.7	14
15	Identification of a novel tetrameric structure for human apolipoprotein-D. <i>Journal of Structural Biology</i> , 2018, 203, 205-218.	2.8	12
16	Rational Design of a 3<sub>10</sub>-Helical PIP-Box Mimetic Targeting PCNA, the Human Sliding Clamp. <i>Chemistry - A European Journal</i> , 2018, 24, 11325-11331.	3.3	16
17	Hotspots of age-related protein degradation: the importance of neighboring residues for the formation of non-disulfide crosslinks derived from cysteine. <i>Biochemical Journal</i> , 2017, 474, 2475-2487.	3.7	15
18	Structural and biophysical analyses of the skeletal dihydropyridine receptor Î² subunit Î²1a reveal critical roles of domain interactions for stability. <i>Journal of Biological Chemistry</i> , 2017, 292, 8401-8411.	3.4	7

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19	GSTO1-1 plays a pro-inflammatory role in models of inflammation, colitis and obesity. <i>Scientific Reports</i> , 2017, 7, 17832.	3.3	47
20	Dynamics of Open DNA Sliding Clamps. <i>PLoS ONE</i> , 2016, 11, e0154899.	2.5	19
21	Bacterial Sliding Clamp Inhibitors that Mimic the Sequential Binding Mechanism of Endogenous Linear Motifs. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 4693-4702.	6.4	28
22	Replisome speed determines the efficiency of the Tus <sup>+</sup> Ter replication termination barrier. <i>Nature</i> , 2015, 525, 394-398.	27.8	42
23	Structure and function of a spectrin-like regulator of bacterial cytokinesis. <i>Nature Communications</i> , 2014, 5, 5421.	12.8	41
24	Intramolecular binding mode of the C-terminus of <i>Escherichia coli</i> single-stranded DNA binding protein determined by nuclear magnetic resonance spectroscopy. <i>Nucleic Acids Research</i> , 2014, 42, 2750-2757.	14.5	36
25	Structural and Binding Studies of the Cav1.1 $\beta$ 21A Subunit. <i>Biophysical Journal</i> , 2014, 106, 446a.	0.5	0
26	Efficient synthesis and antioxidant activity of coelenterazine analogues. <i>Tetrahedron Letters</i> , 2014, 55, 6212-6215.	1.4	19
27	Discovery of Lead Compounds Targeting the Bacterial Sliding Clamp Using a Fragment-Based Approach. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 2799-2806.	6.4	49
28	DNA Replication Is the Target for the Antibacterial Effects of Nonsteroidal Anti-Inflammatory Drugs. <i>Chemistry and Biology</i> , 2014, 21, 481-487.	6.0	102
29	Structural and Thermodynamic Dissection of Linear Motif Recognition by the <i>E. coli</i> Sliding Clamp. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 8665-8673.	6.4	23
30	Proofreading exonuclease on a tether: the complex between the <i>E. coli</i> DNA polymerase III subunits $\epsilon$ , $\mu$ , $\theta$ , and $\beta$ reveals a highly flexible arrangement of the proofreading domain. <i>Nucleic Acids Research</i> , 2013, 41, 5354-5367.	14.5	34
31	Structural Insights into Omega-Class Glutathione Transferases: A Snapshot of Enzyme Reduction and Identification of a Non-Catalytic Ligandin Site. <i>PLoS ONE</i> , 2013, 8, e60324.	2.5	36
32	Fragment-Based Screening by Protein Crystallography: Successes and Pitfalls. <i>International Journal of Molecular Sciences</i> , 2012, 13, 12857-12879.	4.1	50
33	Selective reduction of hydroperoxyeicosatetraenoic acids to their hydroxy derivatives by apolipoprotein D: implications for lipid antioxidant activity and Alzheimer's disease. <i>Biochemical Journal</i> , 2012, 442, 713-721.	3.7	62
34	Time to Face the Fats: What Can Mass Spectrometry Reveal about the Structure of Lipids and Their Interactions with Proteins?. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 1441-1449.	2.8	24
35	Structural Insights into the Dehydroascorbate Reductase Activity of Human Omega-Class Glutathione Transferases. <i>Journal of Molecular Biology</i> , 2012, 420, 190-203.	4.2	60
36	Molecular Dynamics Analysis of Apolipoprotein-D - Lipid Hydroperoxide Interactions: Mechanism for Selective Oxidation of Met-93. <i>PLoS ONE</i> , 2012, 7, e34057.	2.5	24

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37	Binding Inhibitors of the Bacterial Sliding Clamp by Design. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 4831-4838.	6.4	38
38	Glutathione transferases: a structural perspective. <i>Drug Metabolism Reviews</i> , 2011, 43, 138-151.	3.6	298
39	Novel Folding and Stability Defects Cause a Deficiency of Human Glutathione Transferase Omega 1. <i>Journal of Biological Chemistry</i> , 2011, 286, 4271-4279.	3.4	24
40	Identification and characterisation of new inhibitors for the human hematopoietic prostaglandin D 2 synthase. <i>European Journal of Medicinal Chemistry</i> , 2010, 45, 447-454.	5.5	15
41	Structural basis for cofactor-independent dioxygenation of <i>N</i> -heteroaromatic compounds at the $\beta$ -hydrolase fold. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 657-662.	7.1	77
42	Structural and Functional Basis of Resistance to Neuraminidase Inhibitors of Influenza B Viruses. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 6421-6431.	6.4	75
43	Identification and Characterization of $\beta$ -Glutamylamine Cyclotransferase, an Enzyme Responsible for $\beta$ -Glutamyl-L-lysine Catabolism. <i>Journal of Biological Chemistry</i> , 2010, 285, 9642-9648.	3.4	33
44	The structure of <i>Aspergillus niger</i> phytase PhyA in complex with a phytate mimetic. <i>Biochemical and Biophysical Research Communications</i> , 2010, 397, 745-749.	2.1	42
45	Sodium translocation by the iminoglycinuria associated imino transporter (SLC6A20). <i>Molecular Membrane Biology</i> , 2009, 26, 333-346.	2.0	21
46	Malonate-bound structure of the glycerophosphodiesterase from <i>Enterobacter aerogenes</i> (GpdQ) and characterization of the native Fe <sup>2+</sup> metal-ion preference. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 681-685.	0.7	24
47	S-(4-Nitrophenacyl)glutathione is a specific substrate for glutathione transferase omega 1-1. <i>Analytical Biochemistry</i> , 2008, 374, 25-30.	2.4	44
48	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. <i>Journal of Molecular Biology</i> , 2008, 380, 131-144.	4.2	49
49	The Identification and Structural Characterization of C7orf24 as $\beta$ -Glutamyl Cyclotransferase. <i>Journal of Biological Chemistry</i> , 2008, 283, 22031-22042.	3.4	110
50	Polymorphism of glutathione transferase Omega 1 in a population exposed to a high environmental arsenic burden. <i>Pharmacogenetics and Genomics</i> , 2008, 18, 1-10.	1.5	40
51	Anisotropic atomic motions in high-resolution protein crystallography molecular dynamics simulations. <i>Physical Biology</i> , 2007, 4, 79-90.	1.8	14
52	Crystallization and diffraction data of 1H-3-hydroxy-4-oxoquinoline 2,4-dioxygenase: a cofactor-free oxygenase of the $\beta$ -hydrolase family. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2007, 63, 378-381.	0.7	8
53	Magneto-Optic Spectroscopy of a Protein Tetramer Binding Two Exciton-Coupled Chlorophylls. <i>Journal of the American Chemical Society</i> , 2006, 128, 3649-3658.	13.7	63
54	A Molecular Mousetrap Determines Polarity of Termination of DNA Replication in <i>E. coli</i> . <i>Cell</i> , 2006, 125, 1309-1319.	28.9	114

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55	Mechanism and Putative Structure of B0-like Neutral Amino Acid Transporters. <i>Journal of Membrane Biology</i> , 2006, 213, 111-118.	2.1	23
56	A molecular mousetrap determines polarity of replication fork arrest at Tus- <i>Ter</i> sites in <i>E. coli</i> . <i>FASEB Journal</i> , 2006, 20, A911.	0.5	0
57	Three-dimensional structure of (1,4)- $\beta$ -D-mannan mannanohydrolase from tomato fruit. <i>Protein Science</i> , 2005, 14, 1233-1241.	7.6	60
58	Glutathione transferases: new functions. <i>Current Opinion in Structural Biology</i> , 2005, 15, 716-723.	5.7	181
59	Purification, crystallization and preliminary crystallographic analysis of DehIVa, a dehalogenase from <i>Burkholderia cepacia</i> MBA4. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 271-273.	0.7	2
60	Comparison of negative and positive ion electrospray ionization mass spectra of calmodulin and its complex with trifluoperazine. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 2123-2130.	1.5	19
61	T Cell Determinants Incorporating $\beta$ -Amino Acid Residues Are Protease Resistant and Remain Immunogenic In Vivo. <i>Journal of Immunology</i> , 2005, 175, 3810-3818.	0.8	56
62	Crystal and Solution Structures of the Helicase-binding Domain of <i>Escherichia coli</i> Primase. <i>Journal of Biological Chemistry</i> , 2005, 280, 11495-11504.	3.4	62
63	Identification, characterization and structure of a new Delta class glutathione transferase isoenzyme. <i>Biochemical Journal</i> , 2005, 388, 763-771.	3.7	82
64	Targeting the JNK MAPK cascade for inhibition: basic science and therapeutic potential. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2004, 1697, 89-101.	2.3	231
65	Crystal Structure of Haloalkane Dehalogenase LinB from <i>Sphingomonas paucimobilis</i> UT26 at 0.95 Å Resolution: Dynamics of Catalytic Residues. <i>Biochemistry</i> , 2004, 43, 870-878.	2.5	82
66	Expression, purification, crystallization, and NMR studies of the helicase interaction domain of <i>Escherichia coli</i> DnaG primase. <i>Protein Expression and Purification</i> , 2004, 33, 304-310.	1.3	11
67	The 2.2 Å Crystal Structure of a Pocilloporin Pigment Reveals a Nonplanar Chromophore Conformation. <i>Structure</i> , 2003, 11, 275-284.	3.3	127
68	Characterization of a family 11 xylanase from <i>Bacillus subtilis</i> B230 used for paper bleaching. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 627-636.	2.5	33
69	Flexibility revealed by the 1.85 Å crystal structure of the $\beta$ sliding-clamp subunit of <i>Escherichia coli</i> DNA polymerase III. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 1192-1199.	2.5	64
70	Haloalkane Dehalogenase LinB from <i>Sphingomonas paucimobilis</i> UT26: X-ray Crystallographic Studies of Dehalogenation of Brominated Substrates. <i>Biochemistry</i> , 2003, 42, 10104-10112.	2.5	43
71	The 2.0 Å Crystal Structure of eqFP611, a Far Red Fluorescent Protein from the Sea Anemone <i>Entacmaea quadricolor</i> . <i>Journal of Biological Chemistry</i> , 2003, 278, 44626-44631.	3.4	158
72	Thermodynamic Description of the Effect of the Mutation Y49F on Human Glutathione Transferase P1-1 in Binding with Glutathione and the Inhibitor S-Hexylglutathione. <i>Journal of Biological Chemistry</i> , 2003, 278, 46938-46948.	3.4	20

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73	Exploring the Structure and Activity of Haloalkane Dehalogenase from <i>Sphingomonas paucimobilis</i> UT26: Evidence for Product- and Water-Mediated Inhibition., <i>Biochemistry</i> , 2002, 41, 4847-4855.	2.5	49
74	Crystallization of two glutathione S-transferases from an unusual gene family. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 870-872.	2.5	4
75	Effects of i-propanol on the structural dynamics of <i>Thermomyces lanuginosalipase</i> revealed by tryptophan fluorescence. <i>Protein Science</i> , 2001, 10, 339-351.	7.6	37
76	The crystal structures of glutathione S-transferases isozymes 1 and 4 from <i>Anopheles dirus</i> species B. <i>Protein Science</i> , 2001, 10, 2176-2185.	7.6	73
77	Macromolecular Crystallography As A Tool For Investigating Drug, Enzyme And Receptor Interactions. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2000, 27, 145-151.	1.9	9
78	Structures of thermolabile mutants of human glutathione transferase P1-1 Edited by R. Huber. <i>Journal of Molecular Biology</i> , 2000, 302, 295-302.	4.2	17
79	Valine 10 May Act as a Driver for Product Release from the Active Site of Human Glutathione Transferase P1-1. <i>Biochemistry</i> , 2000, 39, 15961-15970.	2.5	3
80	Structure and function of the bacterial mechanosensitive channel of large conductance. <i>Protein Science</i> , 1999, 8, 1915-1921.	7.6	48
81	The ligandin (non-substrate) binding site of human pi class glutathione transferase is located in the electrophile binding site (H-site). <i>Journal of Molecular Biology</i> , 1999, 291, 913-926.	4.2	121
82	Human theta class glutathione transferase: the crystal structure reveals a sulfate-binding pocket within a buried active site. <i>Structure</i> , 1998, 6, 309-322.	3.3	147
83	Preliminary X-ray crystallographic studies of a newly defined human theta-class glutathione transferase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1998, 54, 148-150.	2.5	4
84	Evidence for an Induced-Fit Mechanism Operating in Pi Class Glutathione Transferases., <i>Biochemistry</i> , 1998, 37, 9912-9917.	2.5	56
85	Solution Structure of Glutathione Bound to Human Glutathione Transferase P1-1: A Comparison of NMR Measurements with the Crystal Structure. <i>Biochemistry</i> , 1998, 37, 3020-3027.	2.5	28
86	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 Edited by R. Huber. <i>Journal of Molecular Biology</i> , 1998, 284, 1717-1725.	4.2	29
87	The Three-Dimensional Structure of the Human Pi Class Glutathione Transferase P1-1 in Complex with the Inhibitor Ethacrynic Acid and Its Glutathione Conjugate., <i>Biochemistry</i> , 1997, 36, 576-585.	2.5	125
88	Multifunctional Role of Tyr 108 in the Catalytic Mechanism of Human Glutathione Transferase P1-1. Crystallographic and Kinetic Studies on the Y108F Mutant Enzyme. <i>Biochemistry</i> , 1997, 36, 6207-6217.	2.5	65
89	The structures of human glutathione transferase P1-1 in complex with glutathione and various inhibitors at high resolution. <i>Journal of Molecular Biology</i> , 1997, 274, 84-100.	4.2	172
90	The glutathione conjugate of ethacrynic acid can bind to human pi class glutathione transferase P1-1 in two different modes. <i>FEBS Letters</i> , 1997, 419, 32-36.	2.8	49

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91	Structural Flexibility Modulates the Activity of Human Glutathione Transferase P1-1. Journal of Biological Chemistry, 1996, 271, 16193-16198.	3.4	49