

Brian G Fox

List of Publications by Year in descending order

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161
papers

9,684
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31902

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167
docs citations

167
times ranked

8549
citing authors

#	ARTICLE	IF	CITATIONS
1	Eight Histidine Residues Are Catalytically Essential in a Membrane-Associated Iron Enzyme, Stearoyl-CoA Desaturase, and Are Conserved in Alkane Hydroxylase and Xylene Monooxygenase. <i>Biochemistry</i> , 1994, 33, 12787-12794.	1.2	723
2	Haloalkene oxidation by the soluble methane monooxygenase from <i>Methylosinus trichosporium</i> OB3b: mechanistic and environmental implications. <i>Biochemistry</i> , 1990, 29, 6419-6427.	1.2	420
3	Maltose- α -neopentyl glycol (MNG) amphiphiles for solubilization, stabilization and crystallization of membrane proteins. <i>Nature Methods</i> , 2010, 7, 1003-1008.	9.0	397
4	A transient intermediate of the methane monooxygenase catalytic cycle containing an FeIVFeIV cluster. <i>Journal of the American Chemical Society</i> , 1993, 115, 6450-6451.	6.6	337
5	Evolution and Ecology of <i>Actinobacteria</i> and Their Bioenergy Applications. <i>Annual Review of Microbiology</i> , 2016, 70, 235-254.	2.9	249
6	A combined approach to improving large-scale production of tobacco etch virus protease. <i>Protein Expression and Purification</i> , 2007, 55, 53-68.	0.6	240
7	Peroxodiferric Intermediate of Stearoyl-Acyl Carrier Protein ω 9Desaturase: ω Oxidase Reactivity during Single Turnover and Implications for the Mechanism of Desaturation. <i>Biochemistry</i> , 1998, 37, 14664-14671.	1.2	218
8	X-ray structure of a mammalian stearoyl-CoA desaturase. <i>Nature</i> , 2015, 524, 252-256.	13.7	213
9	Resonance Raman Evidence for an Fe-O-Fe Center in Stearoyl-ACP Desaturase. Primary Sequence Identity with Other Diiron-Oxo Proteins. <i>Biochemistry</i> , 1994, 33, 12776-12786.	1.2	206
10	Moessbauer, EPR, and ENDOR studies of the hydroxylase and reductase components of methane monooxygenase from <i>Methylosinus trichosporium</i> OB3b. <i>Journal of the American Chemical Society</i> , 1993, 115, 3688-3701.	6.6	185
11	Recombinant Toluene-4-monooxygenase: ω Catalytic and Moessbauer Studies of the Purified Diiron and Rieske Components of a Four-Protein Complex. <i>Biochemistry</i> , 1996, 35, 9106-9119.	1.2	180
12	High-valent transition metal chemistry. Moessbauer and EPR studies of high-spin ($S = 2$) iron(IV) and intermediate-spin ($S = 3/2$) iron(III) complexes with a macrocyclic tetraamido-N ligand. <i>Journal of the American Chemical Society</i> , 1993, 115, 6746-6757.	6.6	178
13	Structure and mechanism of mouse cysteine dioxygenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3084-3089.	3.3	174
14	Reactions of the Diiron Enzyme Stearoyl-Acyl Carrier Protein Desaturase. <i>Accounts of Chemical Research</i> , 2004, 37, 421-429.	7.6	157
15	Transformation of 2,4,6-Trinitrotoluene by Purified Xenobiotic Reductase B from <i>Pseudomonas fluorescens</i> I-C. <i>Applied and Environmental Microbiology</i> , 2000, 66, 4742-4750.	1.4	148
16	Identification of transcribed sequences in <i>Arabidopsis thaliana</i> by using high-resolution genome tiling arrays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 4453-4458.	3.3	147
17	Integer-spin EPR studies of the fully reduced methane monooxygenase hydroxylase component. <i>Journal of the American Chemical Society</i> , 1990, 112, 5861-5865.	6.6	145
18	Enhanced Bacterial Protein Expression During Auto-Induction Obtained by Alteration of Lac Repressor Dosage and Medium Composition. <i>Biotechnology Progress</i> , 2008, 23, 585-598.	1.3	141

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19	Cloning and Sequence Analysis of Two <i>Pseudomonas</i> Flavoprotein Xenobiotic Reductases. <i>Journal of Bacteriology</i> , 1999, 181, 6254-6263.	1.0	141
20	Oxidation-reduction potentials of the methane monooxygenase hydroxylase component from <i>Methylosinus trichosporium</i> OB3b. <i>Biochemistry</i> , 1994, 33, 713-722.	1.2	119
21	Aerobic deconstruction of cellulosic biomass by an insect-associated <i>Streptomyces</i> . <i>Scientific Reports</i> , 2013, 3, 1030.	1.6	107
22	Mössbauer Studies of the Formation and Reactivity of a Quasi-Stable Peroxo Intermediate of Stearoyl-Acyl Carrier Protein 9-Desaturase. <i>Biochemistry</i> , 1999, 38, 12197-12204.	1.2	106
23	Protocols for production of selenomethionine-labeled proteins in 2-L polyethylene terephthalate bottles using auto-induction medium. <i>Protein Expression and Purification</i> , 2005, 40, 256-267.	0.6	104
24	Characterization of the Nitrosyl Adduct of Substrate-Bound Mouse Cysteine Dioxygenase by Electron Paramagnetic Resonance: Electronic Structure of the Active Site and Mechanistic Implications. <i>Biochemistry</i> , 2007, 46, 8569-8578.	1.2	99
25	Changes in the Regiospecificity of Aromatic Hydroxylation Produced by Active Site Engineering in the Diiron Enzyme Toluene 4-Monooxygenase. <i>Biochemistry</i> , 1997, 36, 9283-9289.	1.2	98
26	Insight into the mechanism of aromatic hydroxylation by toluene 4-monooxygenase by use of specifically deuterated toluene and p-xylene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 3784-3789.	3.3	98
27	Spectroscopic studies of the coupled binuclear non-heme iron active site in the fully reduced hydroxylase component of methane monooxygenase: comparison to deoxy and deoxy-azide hemerythrin. <i>Journal of the American Chemical Society</i> , 1993, 115, 12409-12422.	6.6	96
28	Structural consequences of effector protein complex formation in a diiron hydroxylase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19194-19198.	3.3	92
29	The Oligomeric States of the Purified Sigma-1 Receptor Are Stabilized by Ligands. <i>Journal of Biological Chemistry</i> , 2014, 289, 20333-20344.	1.6	92
30	Auto-induction medium for the production of [U-15N]- and [U-13C, U-15N]-labeled proteins for NMR screening and structure determination. <i>Protein Expression and Purification</i> , 2005, 40, 268-278.	0.6	91
31	[31] Methane monooxygenase from <i>Methylosinus trichosporium</i> OB3b. <i>Methods in Enzymology</i> , 1990, 188, 191-202.	0.4	89
32	Combined Participation of Hydroxylase Active Site Residues and Effector Protein Binding in a Para to Ortho Modulation of Toluene 4-Monooxygenase Regiospecificity. <i>Biochemistry</i> , 2002, 41, 3176-3188.	1.2	88
33	Solution Structures of Spinach Acyl Carrier Protein with Decanoate and Stearate. <i>Biochemistry</i> , 2006, 45, 5217-5227.	1.2	86
34	Wheat germ cell-free translation, purification, and assembly of a functional human stearyl-CoA desaturase complex. <i>Protein Expression and Purification</i> , 2008, 62, 171-178.	0.6	82
35	Global Gene Expression Patterns in <i>Clostridium thermocellum</i> as Determined by Microarray Analysis of Chemostat Cultures on Cellulose or Cellobiose. <i>Applied and Environmental Microbiology</i> , 2011, 77, 1243-1253.	1.4	75
36	Results from high-throughput DNA cloning of <i>Arabidopsis thaliana</i> target genes using site-specific recombination. <i>Journal of Structural and Functional Genomics</i> , 2004, 5, 267-276.	1.2	74

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37	Circular Dichroism and Magnetic Circular Dichroism Studies of the Reduced Binuclear Non-Heme Iron Site of Stearoyl-ACP Δ^9 -Desaturase: Substrate Binding and Comparison to Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 1999, 121, 2770-2783.	6.6	72
38	Designing ligands to achieve robust oxidation catalysts. Iron based systems. <i>Coordination Chemistry Reviews</i> , 1998, 174, 361-390.	9.5	71
39	Cellulolytic <i>Streptomyces</i> Strains Associated with Herbivorous Insects Share a Phylogenetically Linked Capacity To Degrade Lignocellulose. <i>Applied and Environmental Microbiology</i> , 2014, 80, 4692-4701.	1.4	70
40	Evolution of substrate specificity in bacterial AA10 lytic polysaccharide monooxygenases. <i>Biotechnology for Biofuels</i> , 2014, 7, 109.	6.2	69
41	Toluene Monooxygenase-Catalyzed Epoxidation of Alkenes. <i>Applied and Environmental Microbiology</i> , 2000, 66, 1877-1882.	1.4	68
42	Evolution of High Cellulolytic Activity in Symbiotic <i>Streptomyces</i> through Selection of Expanded Gene Content and Coordinated Gene Expression. <i>PLoS Biology</i> , 2016, 14, e1002475.	2.6	68
43	Effects of sterculic acid on stearoyl-CoA desaturase in differentiating 3T3-L1 adipocytes. <i>Biochemical and Biophysical Research Communications</i> , 2003, 300, 316-326.	1.0	67
44	High-throughput Purification and Quality Assurance of <i>Arabidopsis thaliana</i> Proteins for Eukaryotic Structural Genomics. <i>Journal of Structural and Functional Genomics</i> , 2005, 6, 143-147.	1.2	67
45	Differential regulation of the stearoyl-CoA desaturase genes by thiazolidinediones in 3T3-L1 adipocytes. <i>Journal of Lipid Research</i> , 2000, 41, 1310-1316.	2.0	67
46	Transformation of RDX and other energetic compounds by xenobiotic reductases XenA and XenB. <i>Applied Microbiology and Biotechnology</i> , 2009, 84, 535-544.	1.7	65
47	Coordinating the impact of structural genomics on the human α -helical transmembrane proteome. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 135-138.	3.6	64
48	Spectroscopic and Computational Characterization of Substrate-Bound Mouse Cysteine Dioxygenase: Nature of the Ferrous and Ferric Cysteine Adducts and Mechanistic Implications. <i>Biochemistry</i> , 2010, 49, 6033-6041.	1.2	63
49	Autoinduction of Protein Expression. <i>Current Protocols in Protein Science</i> , 2009, 56, Unit 5.23.	2.8	61
50	High efficiency single step production of expression plasmids from cDNA clones using the Flexi Vector cloning system. <i>Protein Expression and Purification</i> , 2006, 47, 562-570.	0.6	58
51	High valent transition metal chemistry. Synthesis and characterization of an intermediate-spin iron(IV) complex of a strong π -acid ligand. <i>Journal of the American Chemical Society</i> , 1992, 114, 8724-8725.	6.6	57
52	Mössbauer and EPR Studies of the Photoactivation of Nitrile Hydratase. <i>Biochemistry</i> , 2001, 40, 7984-7991.	1.2	57
53	Mutations in FLS2 Ser-938 Dissect Signaling Activation in FLS2-Mediated <i>Arabidopsis</i> Immunity. <i>PLoS Pathogens</i> , 2013, 9, e1003313.	2.1	57
54	Comparison of cell-based and cell-free protocols for producing target proteins from the <i>Arabidopsis thaliana</i> genome for structural studies. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 59, 633-643.	1.5	56

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55	Functional Evolution of Ribonuclease Inhibitor: Insights from Birds and Reptiles. <i>Journal of Molecular Biology</i> , 2014, 426, 3041-3056.	2.0	56
56	Threonine 201 in the Diiron Enzyme Toluene 4-Monooxygenase Is Not Required for Catalysis. <i>Biochemistry</i> , 2000, 39, 791-799.	1.2	53
57	Crystallographic and Catalytic Studies of the Peroxide-Shunt Reaction in a Diiron Hydroxylase. <i>Biochemistry</i> , 2009, 48, 8932-8939.	1.2	50
58	Structure and mechanism of NOV1, a resveratrol-cleaving dioxygenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14324-14329.	3.3	50
59	Reaction mechanisms of non-heme diiron hydroxylases characterized in whole cells. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 1998-2006.	1.5	49
60	Multifunctional cellulase catalysis targeted by fusion to different carbohydrate-binding modules. <i>Biotechnology for Biofuels</i> , 2015, 8, 220.	6.2	49
61	Purification of a high specific activity methane monooxygenase hydroxylase component from a type II methanotroph. <i>Biochemical and Biophysical Research Communications</i> , 1988, 154, 165-170.	1.0	47
62	Structural genomics: from genes to structures with valuable materials and many questions in between. <i>Nature Methods</i> , 2008, 5, 129-132.	9.0	45
63	In-crystal reaction cycle of a toluene-bound diiron hydroxylase. <i>Nature</i> , 2017, 544, 191-195.	13.7	45
64	Chapter 37 Cell-Free Translation of Integral Membrane Proteins into Unilamellar Liposomes. <i>Methods in Enzymology</i> , 2009, 463, 647-673.	0.4	43
65	X-ray structure of ILL2, an auxin-conjugate amidohydrolase from <i>Arabidopsis thaliana</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 74, 61-71.	1.5	42
66	Geometric and Electronic Structure Studies of the Binuclear Nonheme Ferrous Active Site of Toluene-4-monooxygenase: Parallels with Methane Monooxygenase and Insight into the Role of the Effector Proteins in O ₂ Activation. <i>Journal of the American Chemical Society</i> , 2008, 130, 7098-7109.	6.6	41
67	Application of Fed-Batch Fermentation to the Preparation of Isotopically Labeled or Selenomethionyl-Labeled Proteins. <i>Protein Expression and Purification</i> , 1999, 16, 109-119.	0.6	40
68	Fusion of Dioxygenase and Lignin-binding Domains in a Novel Secreted Enzyme from Cellulolytic <i>Streptomyces</i> sp. SirexAA-E. <i>Journal of Biological Chemistry</i> , 2013, 288, 18574-18587.	1.6	40
69	Structure of Human J-type Co-chaperone HscB Reveals a Tetracysteine Metal-binding Domain. <i>Journal of Biological Chemistry</i> , 2008, 283, 30184-30192.	1.6	38
70	Cell-free Synthesis and Functional Characterization of Sphingolipid Synthases from Parasitic Trypanosomatid Protozoa. <i>Journal of Biological Chemistry</i> , 2010, 285, 20580-20587.	1.6	37
71	N-Isotope effects on the Raman spectra of Fe ₂ S ₂ ferredoxin and Rieske ferredoxin: evidence for structural rigidity of metal sites. <i>Journal of Biological Inorganic Chemistry</i> , 2003, 8, 318-326.	1.1	36
72	Rapid Kinetic Characterization of Glycosyl Hydrolases Based on Oxime Derivatization and Nanostructure-Initiator Mass Spectrometry (NIMS). <i>ACS Chemical Biology</i> , 2014, 9, 1470-1479.	1.6	36

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73	Active Site and Laminarin Binding in Glycoside Hydrolase Family 55. <i>Journal of Biological Chemistry</i> , 2015, 290, 11819-11832.	1.6	36
74	Remarkable Aliphatic Hydroxylation by the Diiron Enzyme Toluene 4-Monooxygenase in Reactions with Radical or Cation Diagnostic Probes Norcarane, 1,1-Dimethylcyclopropane, and 1,1-Diethylcyclopropane. <i>Biochemistry</i> , 2004, 43, 15688-15701.	1.2	35
75	Expression, purification, and physical characterization of <i>Escherichia coli</i> lipoyl(octanoyl)transferase. <i>Protein Expression and Purification</i> , 2005, 39, 269-282.	0.6	35
76	X-ray structure of putative acyl-ACP desaturase DesA2 from <i>Mycobacterium tuberculosis</i> H37Rv. <i>Protein Science</i> , 2009, 14, 1508-1517.	3.1	34
77	The fundamental, versatile role of diiron enzymes in lipid metabolism. <i>Lipid - Fett</i> , 1998, 100, 103-113.	0.6	33
78	Role of Hydrophobic Partitioning in Substrate Selectivity and Turnover of the <i>Ricinus communis</i> Stearoyl Acyl Carrier Protein Δ^9 Desaturase. <i>Biochemistry</i> , 1999, 38, 12833-12840.	1.2	33
79	Molecular Differences Caused by Differentiation of 3T3-L1 Preadipocytes in the Presence of either Dehydroepiandrosterone (DHEA) or 7-Oxo-DHEA. <i>Biochemistry</i> , 2002, 41, 5473-5482.	1.2	33
80	The Center for Eukaryotic Structural Genomics. <i>Journal of Structural and Functional Genomics</i> , 2009, 10, 165-179.	1.2	33
81	Structure-guided analysis of catalytic specificity of the abundantly secreted chitosanase SACTE_5457 from <i>Streptomyces</i> sp. Sirex. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 1245-1257.	1.5	33
82	Optimized Expression and Purification of Toluene 4-Monooxygenase Hydroxylase. <i>Protein Expression and Purification</i> , 2000, 20, 58-65.	0.6	32
83	Spectroscopic and Computational Characterization of the NO Adduct of Substrate-Bound Fe(II) Cysteine Dioxygenase: Insights into the Mechanism of O ₂ Activation. <i>Biochemistry</i> , 2013, 52, 6040-6051.	1.2	32
84	Identification of the Binding Region of the [2Fe-2S] Ferredoxin in Stearoyl-Acyl Carrier Protein Desaturase: Insight into the Catalytic Complex and Mechanism of Action. <i>Biochemistry</i> , 2006, 45, 4848-4858.	1.2	31
85	Cell-Free Protein Synthesis Technology in NMR High-Throughput Structure Determination. <i>Methods in Molecular Biology</i> , 2010, 607, 127-147.	0.4	30
86	Solution Structure of the Toluene 4-Monooxygenase Effector Protein (T4moD). <i>Biochemistry</i> , 2001, 40, 3512-3524.	1.2	28
87	Flexi Vector Cloning. <i>Methods in Molecular Biology</i> , 2009, 498, 55-73.	0.4	28
88	Small-scale, semi-automated purification of eukaryotic proteins for structure determination. <i>Journal of Structural and Functional Genomics</i> , 2007, 8, 153-166.	1.2	27
89	Spinach Holo-Acyl Carrier Protein: Overproduction and Phosphopantetheinylation in <i>Escherichia coli</i> BL21 (DE3), in Vitro Acylation, and Enzymatic Desaturation of Histidine-Tagged Isoform I. <i>Protein Expression and Purification</i> , 1999, 15, 314-326.	0.6	26
90	Spectroscopic and Computational Investigation of Iron(III) Cysteine Dioxygenase: Implications for the Nature of the Putative Superoxo-Fe(III) Intermediate. <i>Biochemistry</i> , 2014, 53, 5759-5770.	1.2	26

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91	Spectroscopic and Computational Investigation of the H155A Variant of Cysteine Dioxygenase: Geometric and Electronic Consequences of a Third-Sphere Amino Acid Substitution. <i>Biochemistry</i> , 2015, 54, 2874-2884.	1.2	26
92	EXAFS and Mössbauer characterization of the Diiron(III) site in stearoyl-acyl carrier protein 9 desaturase. <i>Journal of Biological Inorganic Chemistry</i> , 1998, 3, 392-400.	1.1	25
93	Identification of Rv3230c as the NADPH Oxidoreductase of a Two-Protein DesA3 Acyl-CoA Desaturase in <i>Mycobacterium tuberculosis</i> H37Rv. <i>Biochemistry</i> , 2006, 45, 13476-13486.	1.2	25
94	Role for Threonine 201 in the Catalytic Cycle of the Soluble Diiron Hydroxylase Toluene 4-Monooxygenase. <i>Biochemistry</i> , 2009, 48, 3838-3846.	1.2	25
95	Structure of cellobiose phosphorylase from <i>Clostridium thermocellum</i> in complex with phosphate. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 1345-1349.	0.7	25
96	Desaturation, Chain Scission, and Register-Shift of Oxygen-Substituted Fatty Acids during Reaction with Stearoyl-ACP Desaturase. <i>Biochemistry</i> , 2002, 41, 10141-10148.	1.2	24
97	Crystal Structures and Functional Studies of T4moD, the Toluene 4-Monooxygenase Catalytic Effector Protein. <i>Biochemistry</i> , 2005, 44, 7131-7142.	1.2	24
98	Robotic large-scale application of wheat cell-free translation to structural studies including membrane proteins. <i>New Biotechnology</i> , 2011, 28, 239-249.	2.4	24
99	Structural basis for biomolecular recognition in overlapping binding sites in a diiron enzyme system. <i>Nature Communications</i> , 2014, 5, 5009.	5.8	24
100	Expression, purification and characterization of a functional carbohydrate-binding module from <i>Streptomyces</i> sp. SirexAA-E. <i>Protein Expression and Purification</i> , 2014, 98, 1-9.	0.6	24
101	Cell-Free Translation of Biofuel Enzymes. <i>Methods in Molecular Biology</i> , 2014, 1118, 71-95.	0.4	24
102	Fluorescence anisotropy assay for proteolysis of specifically labeled fusion proteins. <i>Analytical Biochemistry</i> , 2005, 336, 75-86.	1.1	23
103	A Protein Structure Initiative approach to expression, purification, and in situ delivery of human cytochrome b5 to membrane vesicles. <i>Protein Expression and Purification</i> , 2008, 58, 229-241.	0.6	23
104	Fluorescence Anisotropy Studies of Enzyme-Substrate Complex Formation in Stearoyl-ACP Desaturase. <i>Biochemistry</i> , 2002, 41, 14472-14481.	1.2	22
105	Production in two-liter beverage bottles of proteins for NMR structure determination labeled with either ¹⁵ N- or ¹³ C- ¹⁵ N. <i>Journal of Structural and Functional Genomics</i> , 2004, 5, 87-93.	1.2	22
106	X-ray structure of <i>Danio rerio</i> secretagogin: A hexameric hand calcium sensor. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 76, 477-483.	1.5	22
107	Function of Shaker potassium channels produced by cell-free translation upon injection into <i>Xenopus</i> oocytes. <i>Scientific Reports</i> , 2013, 3, 1040.	1.6	22
108	Rapid-Mix and Chemical Quench Studies of Ferredoxin-Reduced Stearoyl-Acyl Carrier Protein Desaturase. <i>Biochemistry</i> , 2003, 42, 5857-5866.	1.2	21

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109	Cell-Free production of integral membrane aspartic acid proteases reveals zinc-dependent methyltransferase activity of the <i>Pseudomonas aeruginosa</i> prepilin peptidase PilD. <i>MicrobiologyOpen</i> , 2013, 2, 94-104.	1.2	21
110	Crystallographic Analysis of Active Site Contributions to Regiospecificity in the Diiron Enzyme Toluene 4-Monooxygenase. <i>Biochemistry</i> , 2012, 51, 1101-1113.	1.2	19
111	Cell-Free Protein Synthesis for Functional and Structural Studies. <i>Methods in Molecular Biology</i> , 2014, 1091, 161-178.	0.4	19
112	Determination of glycoside hydrolase specificities during hydrolysis of plant cell walls using glycome profiling. <i>Biotechnology for Biofuels</i> , 2017, 10, 31.	6.2	18
113	A bacterial biosynthetic pathway for methylated furan fatty acids. <i>Journal of Biological Chemistry</i> , 2020, 295, 9786-9801.	1.6	18
114	Biochemical Properties and Atomic Resolution Structure of a Proteolytically Processed β -Mannanase from Cellulolytic <i>Streptomyces</i> sp. SirexAA-E. <i>PLoS ONE</i> , 2014, 9, e94166.	1.1	18
115	HBMT1, a BAHD-family monolignol acyltransferase, mediates lignin acylation in poplar. <i>Plant Physiology</i> , 2022, 188, 1014-1027.	2.3	18
116	Desaturation of trans-octadecenoyl-acyl carrier protein by stearoyl-acyl carrier protein Δ^9 desaturase. <i>Journal of Inorganic Biochemistry</i> , 2000, 78, 7-14.	1.5	17
117	Structural and functional characterization of a novel phosphatase from the <i>Arabidopsis thaliana</i> gene locus At1g05000. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 73, 241-253.	1.5	17
118	Soluble expression and purification of the oxidoreductase component of toluene 4-monooxygenase. <i>Protein Expression and Purification</i> , 2008, 57, 9-16.	0.6	17
119	Chemical and Posttranslational Modification of <i>Escherichia coli</i> Acyl Carrier Protein for Preparation of Dansyl-Acyl Carrier Proteins. <i>Protein Expression and Purification</i> , 2000, 20, 274-284.	0.6	16
120	Aromatic Hydroxylation Catalyzed by Toluene 4-Monooxygenase in Organic Solvent/Aqueous Buffer Mixtures. <i>Applied Biochemistry and Biotechnology</i> , 2001, 90, 187-198.	1.4	16
121	Methane Monooxygenase: A Novel Biological Catalyst for Hydrocarbon Oxidations. , 1990, , 367-388.		16
122	Chain Cleavage and Sulfoxidation of Thiastearoyl-ACP upon Reaction with Stearoyl-ACP Desaturase. <i>Biochemistry</i> , 2003, 42, 7828-7835.	1.2	15
123	A structural and kinetic survey of GH5_4 endoglucanases reveals determinants of broad substrate specificity and opportunities for biomass hydrolysis. <i>Journal of Biological Chemistry</i> , 2020, 295, 17752-17769.	1.6	15
124	Resonance Raman Studies of the Stoichiometric Catalytic Turnover of a Substrate-Stearyl-Acyl Carrier Protein Δ^9 Desaturase Complex. <i>Biochemistry</i> , 2000, 39, 10507-10513.	1.2	14
125	Crystal structure of At2g03760, a putative steroid sulfotransferase from <i>Arabidopsis thaliana</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 57, 854-857.	1.5	14
126	Development of a High Throughput Platform for Screening Glycoside Hydrolases Based on Oxime-NIMS. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 153.	2.0	14

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127	Multifunctional cellulases are potent, versatile tools for a renewable bioeconomy. <i>Current Opinion in Biotechnology</i> , 2021, 67, 141-148.	3.3	14
128	Extent and Origins of Functional Diversity in a Subfamily of Glycoside Hydrolases. <i>Journal of Molecular Biology</i> , 2019, 431, 1217-1233.	2.0	13
129	Expression platforms for producing eukaryotic proteins: a comparison of <i>E. coli</i> cell-based and wheat germ cell-free synthesis, affinity and solubility tags, and cloning strategies. <i>Journal of Structural and Functional Genomics</i> , 2015, 16, 67-80.	1.2	12
130	Solution structure of T4moC, the Rieske ferredoxin component of the toluene 4-monooxygenase complex. <i>Journal of Biological Inorganic Chemistry</i> , 2004, 9, 945-953.	1.1	11
131	Crystallization and preliminary analysis of xenobiotic reductase B from <i>Pseudomonas fluorescens</i> -C. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 1289-1291.	2.5	11
132	Component Interactions and Implications for Complex Formation in the Multicomponent Toluene 4-Monooxygenase. <i>Biochemistry</i> , 2006, 45, 5478-5485.	1.2	11
133	Discovery of sarcosine dimethylglycine methyltransferase from <i>Galdieria sulphuraria</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 74, 368-377.	1.5	11
134	Improved expression and purification of sigma 1 receptor fused to maltose binding protein by alteration of linker sequence. <i>Protein Expression and Purification</i> , 2013, 89, 203-209.	0.6	11
135	Preparation of isotopically labeled spinach acyl-acyl carrier protein for NMR structural studies. <i>Protein Expression and Purification</i> , 2006, 46, 446-455.	0.6	10
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