Brian G Fox

List of Publications by Year
in descending order

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161 papers	9,684 citations	31976 53 h-index	42399 92 g-index
167 all docs	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. Biochemistry, 1994, 33, 12787-12794.	2.5	723
2	Haloalkene oxidation by the soluble methane monooxygenase from Methylosinus trichosporium OB3b: mechanistic and environmental implications. Biochemistry, 1990, 29, 6419-6427.	2.5	420
3	Maltoseâ€“neopentyl glycol (MNG) amphiphiles for solubilization, stabilization and crystallization of membrane proteins. Nature Methods, 2010, 7, 1003-1008.	19.0	397
4	A transient intermediate of the methane monooxygenase catalytic cycle containing an FeIVFeIV cluster. Journal of the American Chemical Society, 1993, 115, 6450-6451.	13.7	337
5	Evolution and Ecology ofActinobacteriaand Their Bioenergy Applications. Annual Review of Microbiology, 2016, 70, 235-254.	7.3	249
6	A combined approach to improving large-scale production of tobacco etch virus protease. Protein Expression and Purification, 2007, 55, 53-68.	1.3	240
7	Peroxodiferric Intermediate of Stearoyl-Acyl Carrier Protein Î”9Desaturase:Â Oxidase Reactivity during Single Turnover and Implications for the Mechanism of Desaturationâ€. Biochemistry, 1998, 37, 14664-14671.	2.5	218
8	X-ray structure of a mammalian stearoyl-CoA desaturase. Nature, 2015, 524, 252-256.	27.8	213
9	Resonance Raman Evidence for an Fe-O-Fe Center in Stearoyl-ACP Desaturase. Primary Sequence Identity with Other Diiron-Oxo Proteins. Biochemistry, 1994, 33, 12776-12786.	2.5	206
10	Moessbauer, EPR, and ENDOR studies of the hydroxylase and reductase components of methane monooxygenase from Methylosinus trichosporium OB3b. Journal of the American Chemical Society, 1993, 115, 3688-3701.	13.7	185
11	Recombinant Toluene-4-monooxygenase:â€‰ Catalytic and MÃ¶ssbauer Studies of the Purified Diiron and Rieske Components of a Four-Protein Complex. Biochemistry, 1996, 35, 9106-9119.	2.5	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. Journal of the American Chemical Society, 1993, 115, 6746-6757.	13.7	178
13	Structure and mechanism of mouse cysteine dioxygenase. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3084-3089.	7.1	174
14	Reactions of the Diiron Enzyme Stearoyl-Acyl Carrier Protein Desaturase. Accounts of Chemical Research, 2004, 37, 421-429.	15.6	157
15	Transformation of 2,4,6-Trinitrotoluene by Purified Xenobiotic Reductase B from Pseudomonas fluorescens I-C. Applied and Environmental Microbiology, 2000, 66, 4742-4750.	3.1	148
16	Identification of transcribed sequences in Arabidopsis thaliana by using high-resolution genome tiling arrays. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4453-4458.	7.1	147
17	Integer-spin EPR studies of the fully reduced methane monooxygenase hydroxylase component. Journal of the American Chemical Society, 1990, 112, 5861-5865.	13.7	145
18	Enhanced Bacterial Protein Expression During Auto-Induction Obtained by Alteration of Lac Repressor Dosage and Medium Composition. Biotechnology Progress, 2008, 23, 585-598.	2.6	141

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19	Cloning and Sequence Analysis of Two Pseudomonas Flavoprotein Xenobiotic Reductases. Journal of Bacteriology, 1999, 181, 6254-6263.	2.2	141
20	Oxidation-reduction potentials of the methane monooxygenase hydroxylase component from Methylosinus trichosporium OB3b. Biochemistry, 1994, 33, 713-722.	2.5	119
21	Aerobic deconstruction of cellulosic biomass by an insect-associated Streptomyces. Scientific Reports, 2013, 3, 1030.	3.3	107
22	MÃ¶ssbauer Studies of the Formation and Reactivity of a Quasi-Stable Peroxo Intermediate of Stearoyl-Acyl Carrier Protein Î”9-Desaturaseâ€. Biochemistry, 1999, 38, 12197-12204.	2.5	106
23	Protocols for production of selenomethionine-labeled proteins in 2-L polyethylene terephthalate bottles using auto-induction medium. Protein Expression and Purification, 2005, 40, 256-267.	1.3	104
24	Characterization of the Nitrosyl Adduct of Substrate-Bound Mouse Cysteine Dioxygenase by Electron Paramagnetic Resonance:â€‰ Electronic Structure of the Active Site and Mechanistic Implications. Biochemistry, 2007, 46, 8569-8578.	2.5	99
25	Changes in the Regiospecificity of Aromatic Hydroxylation Produced by Active Site Engineering in the Diiron Enzyme Toluene 4-Monooxygenase. Biochemistry, 1997, 36, 9283-9289.	2.5	98
26	Insight into the mechanism of aromatic hydroxylation by toluene 4-monooxygenase by use of specifically deuterated toluene and p-xylene. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3784-3789.	7.1	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. Journal of the American Chemical Society, 1993, 115, 12409-12422.	13.7	96
28	Structural consequences of effector protein complex formation in a diiron hydroxylase. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19194-19198.	7.1	92
29	The Oligomeric States of the Purified Sigma-1 Receptor Are Stabilized by Ligands. Journal of Biological Chemistry, 2014, 289, 20333-20344.	3.4	92
30	Auto-induction medium for the production of [U-15N]- and [U-13C, U-15N]-labeled proteins for NMR screening and structure determination. Protein Expression and Purification, 2005, 40, 268-278.	1.3	91
31	[31] Methane monooxygenase from Methylosinus trichosporium OB3b. Methods in Enzymology, 1990, 188, 191-202.	1.0	89
32	Combined Participation of Hydroxylase Active Site Residues and Effector Protein Binding in a Para to Ortho Modulation of Toluene 4-Monooxygenase Regiospecificity. Biochemistry, 2002, 41, 3176-3188.	2.5	88
33	Solution Structures of Spinach Acyl Carrier Protein with Decanoate and Stearateâ€,â€¡. Biochemistry, 2006, 45, 5217-5227.	2.5	86
34	Wheat germ cell-free translation, purification, and assembly of a functional human stearoyl-CoA desaturase complex. Protein Expression and Purification, 2008, 62, 171-178.	1.3	82
35	Global Gene Expression Patterns in Clostridium thermocellum as Determined by Microarray Analysis of Chemostat Cultures on Cellulose or Cellobiose. Applied and Environmental Microbiology, 2011, 77, 1243-1253.	3.1	75
36	Results from high-throughput DNA cloning of Arabidopsis thaliana target genes using site-specific recombination. Journal of Structural and Functional Genomics, 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 Î”9-Desaturase:â€‰ Substrate Binding and Comparison to Ribonucleotide Reductase. Journal of the American Chemical Society, 1999, 121, 2770-2783.	13.7	72
38	Designing ligands to achieve robust oxidation catalysts. Iron based systems. Coordination Chemistry Reviews, 1998, 174, 361-390.	18.8	71
39	Cellulolytic Streptomyces Strains Associated with Herbivorous Insects Share a Phylogenetically Linked Capacity To Degrade Lignocellulose. Applied and Environmental Microbiology, 2014, 80, 4692-4701.	3.1	70
40	Evolution of substrate specificity in bacterial AA10 lytic polysaccharide monooxygenases. Biotechnology for Biofuels, 2014, 7, 109.	6.2	69
41	Toluene Monooxygenase-Catalyzed Epoxidation of Alkenes. Applied and Environmental Microbiology, 2000, 66, 1877-1882.	3.1	68
42	Evolution of High Cellulolytic Activity in Symbiotic Streptomyces through Selection of Expanded Gene Content and Coordinated Gene Expression. PLoS Biology, 2016, 14, e1002475.	5.6	68
43	Effects of sterculic acid on stearoyl-CoA desaturase in differentiating 3T3-L1 adipocytes. Biochemical and Biophysical Research Communications, 2003, 300, 316-326.	2.1	67
44	High-throughput Purification and Quality Assurance of Arabidopsis thaliana Proteins for Eukaryotic Structural Genomics. Journal of Structural and Functional Genomics, 2005, 6, 143-147.	1.2	67
45	Differential regulation of the stearoyl-CoA desaturase genes by thiazolidinediones in 3T3-L1 adipocytes. Journal of Lipid Research, 2000, 41, 1310-1316.	4.2	67
46	Transformation of RDX and other energetic compounds by xenobiotic reductases XenA and XenB. Applied Microbiology and Biotechnology, 2009, 84, 535-544.	3.6	65
47	Coordinating the impact of structural genomics on the human Î±-helical transmembrane proteome. Nature Structural and Molecular Biology, 2013, 20, 135-138.	8.2	64
48	Spectroscopic and Computational Characterization of Substrate-Bound Mouse Cysteine Dioxygenase: Nature of the Ferrous and Ferric Cysteine Adducts and Mechanistic Implications. Biochemistry, 2010, 49, 6033-6041.	2.5	63
49	Autoinduction of Protein Expression. Current Protocols in Protein Science, 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. Protein Expression and Purification, 2006, 47, 562-570.	1.3	58
51	High valent transition metal chemistry. Synthesis and characterization of an intermediate-spin iron(IV) complex of a strong .pi.-acid ligand. Journal of the American Chemical Society, 1992, 114, 8724-8725.	13.7	57
52	MÃ¶ssbauer and EPR Studies of the Photoactivation of Nitrile Hydratase. Biochemistry, 2001, 40, 7984-7991.	2.5	57
53	Mutations in FLS2 Ser-938 Dissect Signaling Activation in FLS2-Mediated Arabidopsis Immunity. PLoS Pathogens, 2013, 9, e1003313.	4.7	57
54	Comparison of cell-based and cell-free protocols for producing target proteins from the Arabidopsis thaliana genome for structural studies. Proteins: Structure, Function and Bioinformatics, 2005, 59, 633-643.	2.6	56

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55	Functional Evolution of Ribonuclease Inhibitor: Insights from Birds and Reptiles. Journal of Molecular Biology, 2014, 426, 3041-3056.	4.2	56
56	Threonine 201 in the Diiron Enzyme Toluene 4-Monooxygenase Is Not Required for Catalysis. Biochemistry, 2000, 39, 791-799.	2.5	53
57	Crystallographic and Catalytic Studies of the Peroxide-Shunt Reaction in a Diiron Hydroxylase. Biochemistry, 2009, 48, 8932-8939.	2.5	50
58	Structure and mechanism of NOV1, a resveratrol-cleaving dioxygenase. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14324-14329.	7.1	50
59	Reaction mechanisms of non-heme diiron hydroxylases characterized in whole cells. Journal of Inorganic Biochemistry, 2005, 99, 1998-2006.	3.5	49
60	Multifunctional cellulase catalysis targeted by fusion to different carbohydrate-binding modules. Biotechnology for Biofuels, 2015, 8, 220.	6.2	49
61	Purification of a high specific activity methane monooxygenase hydroxylase component from a type II methanotroph. Biochemical and Biophysical Research Communications, 1988, 154, 165-170.	2.1	47
62	Structural genomics: from genes to structures with valuable materials and many questions in between. Nature Methods, 2008, 5, 129-132.	19.0	45
63	In-crystal reaction cycle of a toluene-bound diiron hydroxylase. Nature, 2017, 544, 191-195.	27.8	45
64	Chapter 37 Cell-Free Translation of Integral Membrane Proteins into Unilamelar Liposomes. Methods in Enzymology, 2009, 463, 647-673.	1.0	43
65	Xâ€ray structure of ILL2, an auxinâ€conjugate amidohydrolase from Arabidopsis thaliana. Proteins: Structure, Function and Bioinformatics, 2009, 74, 61-71.	2.6	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 O₂ Activation. Journal of the American Chemical Society, 2008, 130, 7098-7109.	13.7	41
67	Application of Fed-Batch Fermentation to the Preparation of Isotopically Labeled or Selenomethionyl-Labeled Proteins. Protein Expression and Purification, 1999, 16, 109-119.	1.3	40
68	Fusion of Dioxygenase and Lignin-binding Domains in a Novel Secreted Enzyme from Cellulolytic Streptomyces sp. SirexAA-E. Journal of Biological Chemistry, 2013, 288, 18574-18587.	3.4	40
69	Structure of Human J-type Co-chaperone HscB Reveals a Tetracysteine Metal-binding Domain. Journal of Biological Chemistry, 2008, 283, 30184-30192.	3.4	38
70	Cell-free Synthesis and Functional Characterization of Sphingolipid Synthases from Parasitic Trypanosomatid Protozoa. Journal of Biological Chemistry, 2010, 285, 20580-20587.	3.4	37
71	N-Isotope effects on the Raman spectra of Fe2S2 ferredoxin and Rieske ferredoxin: evidence for structural rigidity of metal sites. Journal of Biological Inorganic Chemistry, 2003, 8, 318-326.	2.6	36
72	Rapid Kinetic Characterization of Glycosyl Hydrolases Based on Oxime Derivatization and Nanostructure-Initiator Mass Spectrometry (NIMS). ACS Chemical Biology, 2014, 9, 1470-1479.	3.4	36

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73	Active Site and Laminarin Binding in Glycoside Hydrolase Family 55. Journal of Biological Chemistry, 2015, 290, 11819-11832.	3.4	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-Diethylcyclopropaneâ€. Biochemistry, 2004, 43, 15688-15701.	2.5	35
75	Expression, purification, and physical characterization of Escherichia coli lipoyl(octanoyl)transferase. Protein Expression and Purification, 2005, 39, 269-282.	1.3	35
76	X-ray structure of putative acyl-ACP desaturase DesA2 from Mycobacterium tuberculosis H37Rv. Protein Science, 2009, 14, 1508-1517.	7.6	34
77	The fundamental, versatile role of diiron enzymes in lipid metabolism. Lipid - Fett, 1998, 100, 103-113.	0.4	33
78	Role of Hydrophobic Partitioning in Substrate Selectivity and Turnover of theRicinuscommunisStearoyl Acyl Carrier Protein Î”9Desaturaseâ€. Biochemistry, 1999, 38, 12833-12840.	2.5	33
79	Molecular Differences Caused by Differentiation of 3T3-L1 Preadipocytes in the Presence of either Dehydroepiandrosterone (DHEA) or 7-Oxo-DHEA. Biochemistry, 2002, 41, 5473-5482.	2.5	33
80	The Center for Eukaryotic Structural Genomics. Journal of Structural and Functional Genomics, 2009, 10, 165-179.	1.2	33
81	Structureâ€guided analysis of catalytic specificity of the abundantly secreted chitosanase SACTE_5457 from Streptomyces sp. SirexAAâ€. Proteins: Structure, Function and Bioinformatics, 2014, 82, 1245-1257.	2.6	33
82	Optimized Expression and Purification of Toluene 4-Monooxygenase Hydroxylase. Protein Expression and Purification, 2000, 20, 58-65.	1.3	32
83	Spectroscopic and Computational Characterization of the NO Adduct of Substrate-Bound Fe(II) Cysteine Dioxygenase: Insights into the Mechanism of O₂ Activation. Biochemistry, 2013, 52, 6040-6051.	2.5	32
84	Identification of the Binding Region of the [2Fe-2S] Ferredoxin in Stearoyl-Acyl Carrier Protein Desaturase:â€‰ Insight into the Catalytic Complex and Mechanism of Action. Biochemistry, 2006, 45, 4848-4858.	2.5	31
85	Cell-Free Protein Synthesis Technology in NMR High-Throughput Structure Determination. Methods in Molecular Biology, 2010, 607, 127-147.	0.9	30
86	Solution Structure of the Toluene 4-Monooxygenase Effector Protein (T4moD)â€,â€¡. Biochemistry, 2001, 40, 3512-3524.	2.5	28
87	Flexi Vector Cloning. Methods in Molecular Biology, 2009, 498, 55-73.	0.9	28
88	Small-scale, semi-automated purification of eukaryotic proteins for structure determination. Journal of Structural and Functional Genomics, 2007, 8, 153-166.	1.2	27
89	Spinach Holo-Acyl Carrier Protein: Overproduction and Phosphopantetheinylation inEscherichia coliBL21(DE3),in VitroAcylation, and Enzymatic Desaturation of Histidine-Tagged Isoform I. Protein Expression and Purification, 1999, 15, 314-326.	1.3	26
90	Spectroscopic and Computational Investigation of Iron(III) Cysteine Dioxygenase: Implications for the Nature of the Putative Superoxo-Fe(III) Intermediate. Biochemistry, 2014, 53, 5759-5770.	2.5	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. Biochemistry, 2015, 54, 2874-2884.	2.5	26
92	EXAFS and MÃ¶ssbauer characterization of the Diiron(III) site in stearoyl-acyl carrier protein Î”9â€“ desaturase. Journal of Biological Inorganic Chemistry, 1998, 3, 392-400.	2.6	25
93	Identification of Rv3230c as the NADPH Oxidoreductase of a Two-Protein DesA3 Acyl-CoA Desaturase in Mycobacterium tuberculosis H37Rv. Biochemistry, 2006, 45, 13476-13486.	2.5	25
94	Role for Threonine 201 in the Catalytic Cycle of the Soluble Diiron Hydroxylase Toluene 4-Monooxygenase,. Biochemistry, 2009, 48, 3838-3846.	2.5	25
95	Structure of cellobiose phosphorylase fromClostridium thermocellumin complex with phosphate. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 1345-1349.	0.7	25
96	Desaturation, Chain Scission, and Register-Shift of Oxygen-Substituted Fatty Acids during Reaction with Stearoyl-ACP Desaturaseâ€. Biochemistry, 2002, 41, 10141-10148.	2.5	24
97	Crystal Structures and Functional Studies of T4moD, the Toluene 4-Monooxygenase Catalytic Effector Proteinâ€,â€¡. Biochemistry, 2005, 44, 7131-7142.	2.5	24
98	Robotic large-scale application of wheat cell-free translation to structural studies including membrane proteins. New Biotechnology, 2011, 28, 239-249.	4.4	24
99	Structural basis for biomolecular recognition in overlapping binding sites in a diiron enzyme system. Nature Communications, 2014, 5, 5009.	12.8	24
100	Expression, purification and characterization of a functional carbohydrate-binding module from Streptomyces sp. SirexAA-E. Protein Expression and Purification, 2014, 98, 1-9.	1.3	24
101	Cell-Free Translation of Biofuel Enzymes. Methods in Molecular Biology, 2014, 1118, 71-95.	0.9	24
102	Fluorescence anisotropy assay for proteolysis of specifically labeled fusion proteins. Analytical Biochemistry, 2005, 336, 75-86.	2.4	23
103	A Protein Structure Initiative approach to expression, purification, and in situ delivery of human cytochrome b5 to membrane vesicles. Protein Expression and Purification, 2008, 58, 229-241.	1.3	23
104	Fluorescence Anisotropy Studies of Enzymeâ^'Substrate Complex Formation in Stearoyl-ACP Desaturase. Biochemistry, 2002, 41, 14472-14481.	2.5	22
105	Production in two-liter beverage bottles of proteins for NMR structure determination labeled with either15N- or13C-15N. Journal of Structural and Functional Genomics, 2004, 5, 87-93.	1.2	22
106	Xâ€ray structure of Danio rerio secretagogin: A hexaâ€EFâ€hand calcium sensor. Proteins: Structure, Function and Bioinformatics, 2009, 76, 477-483.	2.6	22
107	Function of Shaker potassium channels produced by cell-free translation upon injection into Xenopus oocytes. Scientific Reports, 2013, 3, 1040.	3.3	22
108	Rapid-Mix and Chemical Quench Studies of Ferredoxin-Reduced Stearoyl-Acyl Carrier Protein Desaturaseâ€. Biochemistry, 2003, 42, 5857-5866.	2.5	21

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109	Cellâ€free production of integral membrane aspartic acid proteases reveals zincâ€dependent methyltransferase activity of the <scp>P</scp>seudomonas aeruginosa prepilin peptidase PilD. MicrobiologyOpen, 2013, 2, 94-104.	3.0	21
110	Crystallographic Analysis of Active Site Contributions to Regiospecificity in the Diiron Enzyme Toluene 4-Monooxygenase. Biochemistry, 2012, 51, 1101-1113.	2.5	19
111	Cell-Free Protein Synthesis for Functional and Structural Studies. Methods in Molecular Biology, 2014, 1091, 161-178.	0.9	19
112	Determination of glycoside hydrolase specificities during hydrolysis of plant cell walls using glycome profiling. Biotechnology for Biofuels, 2017, 10, 31.	6.2	18
113	A bacterial biosynthetic pathway for methylated furan fatty acids. Journal of Biological Chemistry, 2020, 295, 9786-9801.	3.4	18
114	Biochemical Properties and Atomic Resolution Structure of a Proteolytically Processed Î²-Mannanase from Cellulolytic Streptomyces sp. SirexAA-E. PLoS ONE, 2014, 9, e94166.	2.5	18
115	pHBMT1, a BAHD-family monolignol acyltransferase, mediates lignin acylation in poplar. Plant Physiology, 2022, 188, 1014-1027.	4.8	18
116	Desaturation of trans-octadecenoyl-acyl carrier protein by stearoyl-acyl carrier protein Î”9 desaturase. Journal of Inorganic Biochemistry, 2000, 78, 7-14.	3.5	17
117	Structural and functional characterization of a novel phosphatase from the Arabidopsis thaliana gene locus At1g05000. Proteins: Structure, Function and Bioinformatics, 2008, 73, 241-253.	2.6	17
118	Soluble expression and purification of the oxidoreductase component of toluene 4-monooxygenase. Protein Expression and Purification, 2008, 57, 9-16.	1.3	17
119	Chemical and Posttranslational Modification of Escherichia coli Acyl Carrier Protein for Preparation of Dansyl-Acyl Carrier Proteins. Protein Expression and Purification, 2000, 20, 274-284.	1.3	16
120	Aromatic Hydroxylation Catalyzed by Toluene 4-Monooxygenase in Organic Solvent/Aqueous Buffer Mixtures. Applied Biochemistry and Biotechnology, 2001, 90, 187-198.	2.9	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 Desaturaseâ€. Biochemistry, 2003, 42, 7828-7835.	2.5	15
123	A structural and kinetic survey of GH5_4 endoglucanases reveals determinants of broad substrate specificity and opportunities for biomass hydrolysis. Journal of Biological Chemistry, 2020, 295, 17752-17769.	3.4	15
124	Resonance Raman Studies of the Stoichiometric Catalytic Turnover of a Substrateâ^'Stearoyl-Acyl Carrier Protein Î”9Desaturase Complexâ€. Biochemistry, 2000, 39, 10507-10513.	2.5	14
125	Crystal structure of At2g03760, a putative steroid sulfotransferase fromArabidopsis thaliana. Proteins: Structure, Function and Bioinformatics, 2004, 57, 854-857.	2.6	14
126	Development of a High Throughput Platform for Screening Glycoside Hydrolases Based on Oxime-NIMS. Frontiers in Bioengineering and Biotechnology, 2015, 3, 153.	4.1	14

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127	Multifunctional cellulases are potent, versatile tools for a renewable bioeconomy. Current Opinion in Biotechnology, 2021, 67, 141-148.	6.6	14
128	Extent and Origins of Functional Diversity in a Subfamily of Glycoside Hydrolases. Journal of Molecular Biology, 2019, 431, 1217-1233.	4.2	13
129	Expression platforms for producing eukaryotic proteins: a comparison of E. coli cell-based and wheat germ cell-free synthesis, affinity and solubility tags, and cloning strategies. Journal of Structural and Functional Genomics, 2015, 16, 67-80.	1.2	12
130	Solution structure of T4moC, the Rieske ferredoxin component of the toluene 4-monooxygenase complex. Journal of Biological Inorganic Chemistry, 2004, 9, 945-953.	2.6	11
131	Crystallization and preliminary analysis of xenobiotic reductase B fromPseudomonas fluorescensI-C. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1289-1291.	2.5	11
132	Component Interactions and Implications for Complex Formation in the Multicomponent Toluene 4-Monooxygenase. Biochemistry, 2006, 45, 5478-5485.	2.5	11
133	Discovery of sarcosine dimethylglycine methyltransferase from Galdieria sulphuraria. Proteins: Structure, Function and Bioinformatics, 2009, 74, 368-377.	2.6	11
134	Improved expression and purification of sigma 1 receptor fused to maltose binding protein by alteration of linker sequence. Protein Expression and Purification, 2013, 89, 203-209.	1.3	11
135	Preparation of isotopically labeled spinach acylâ€“acyl carrier protein for NMR structural studies. Protein Expression and Purification, 2006, 46, 446-455.	1.3	10
136	Structures of proteins of biomedical interest from the Center for Eukaryotic Structural Genomics. Journal of Structural and Functional Genomics, 2007, 8, 73-84.	1.2	10
137	Spectroscopic Investigation of Cysteamine Dioxygenase. Biochemistry, 2020, 59, 2450-2458.	2.5	10
138	Solid-State NMR Studies of Solvent-Mediated, Acid-Catalyzed Woody Biomass Pretreatment for Enzymatic Conversion of Residual Cellulose. ACS Sustainable Chemistry and Engineering, 2020, 8, 6551-6563.	6.7	10
139	The Crystal Structure of Cysteamine Dioxygenase Reveals the Origin of the Large Substrate Scope of This Vital Mammalian Enzyme. Biochemistry, 2021, 60, 3728-3737.	2.5	10
140	Identification and characterization of a set of monocot BAHD monolignol transferases. Plant Physiology, 2022, 189, 37-48.	4.8	10
141	In Vivo Inactivation of the Mycobacterial Integral Membrane Stearoyl Coenzyme A Desaturase DesA3 by a C-Terminus-Specific Degradation Process. Journal of Bacteriology, 2008, 190, 6686-6696.	2.2	9
142	Amino Acid Determinants of Substrate Selectivity in the Trypanosoma brucei Sphingolipid Synthase Family. Biochemistry, 2011, 50, 8853-8861.	2.5	8
143	Structure of T4moF, the Toluene 4-Monooxygenase Ferredoxin Oxidoreductase. Biochemistry, 2015, 54, 5980-5988.	2.5	8
144	Cell-free translation and purification of Arabidopsis thaliana regulator of G signaling 1 protein. Protein Expression and Purification, 2016, 126, 33-41.	1.3	8

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145	Crystal structure of the protein from gene At3g17210 of Arabidopsis thaliana. Proteins: Structure, Function and Bioinformatics, 2004, 57, 218-220.	2.6	7
146	Crystallization and preliminary analysis of xenobiotic reductase A and ligand complexes fromPseudomonas putidaII-B. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 957-961.	2.5	7
147	Use of Nanostructure-Initiator Mass Spectrometry to Deduce Selectivity of Reaction in Glycoside Hydrolases. Frontiers in Bioengineering and Biotechnology, 2015, 3, 165.	4.1	6
148	Mannose- and Mannobiose-Specific Responses of the Insect-Associated Cellulolytic Bacterium Streptomyces sp. Strain SirexAA-E. Applied and Environmental Microbiology, 2021, 87, e0271920.	3.1	6
149	Oxygen-18 tracer studies of enzyme reactions with radical/cation diagnostic probes. Biochemical and Biophysical Research Communications, 2005, 338, 240-249.	2.1	5
150	X-ray structure of a soluble Rieske-type ferredoxin fromMus musculus. Acta Crystallographica Section D: Biological Crystallography, 2008, 64, 933-940.	2.5	5
151	The structure at 2.4â€…Ã… resolution of the protein from gene locus At3g21360, a putative FeII/2-oxoglutarate-dependent enzyme fromArabidopsis thaliana. Acta Crystallographica Section F: Structural Biology Communications, 2005, 61, 469-472.	0.7	4
152	Structural architecture ofGaldieria sulphurariaDCN1L. Proteins: Structure, Function and Bioinformatics, 2011, 79, 1329-1336.	2.6	4
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154	Crystallization and preliminary analysis of native and N-terminal truncated isoforms of toluene-4-monooxygenase catalytic effector protein. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 572-575.	2.5	3
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