

Andrew T Smith

List of Publications by Year in descending order

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65
papers

4,682
citations

136950

32
h-index

118850

62
g-index

69
all docs

69
docs citations

69
times ranked

3781
citing authors

#	ARTICLE	IF	CITATIONS
1	The catalytic pathway of horseradish peroxidase at high resolution. <i>Nature</i> , 2002, 417, 463-468.	27.8	829
2	Crystal structure of horseradish peroxidase C at 2.15 Å... resolution. <i>Nature Structural Biology</i> , 1997, 4, 1032-1038.	9.7	642
3	Two Substrate Interaction Sites in Lignin Peroxidase Revealed by Site-Directed Mutagenesis. <i>Biochemistry</i> , 1998, 37, 15097-15105.	2.5	241
4	Structural Interactions between Horseradish Peroxidase C and the Substrate Benzhydroxamic Acid Determined by X-ray Crystallography. <i>Biochemistry</i> , 1998, 37, 8054-8060.	2.5	223
5	The Structures of the Horseradish Peroxidase C-Ferulic Acid Complex and the Ternary Complex with Cyanide Suggest How Peroxidases Oxidize Small Phenolic Substrates. <i>Journal of Biological Chemistry</i> , 1999, 274, 35005-35011.	3.4	197
6	Role of Arginine 38 in Horseradish Peroxidase. <i>Journal of Biological Chemistry</i> , 1996, 271, 4023-4030.	3.4	180
7	Substrate binding and catalysis in heme peroxidases. <i>Current Opinion in Chemical Biology</i> , 1998, 2, 269-278.	6.1	165
8	Horseradish peroxidase. <i>Advances in Inorganic Chemistry</i> , 2000, , 107-162.	1.0	149
9	Mutation of Distal Residues of Horseradish Peroxidase: Influence on Substrate Binding and Cavity Properties. <i>Biochemistry</i> , 1997, 36, 1532-1543.	2.5	125
10	Characterisation of a haem active-site mutant of horseradish peroxidase, Phe41 Val, with altered reactivity towards hydrogen peroxide and reducing substrates. <i>FEBS Journal</i> , 1992, 207, 507-519.	0.2	106
11	Characterization of Recombinant Horseradish Peroxidase C and three Site-Directed mutants, F41V, F41W, and R38K by Resonance Raman Spectroscopy. <i>Biochemistry</i> , 1994, 33, 7398-7407.	2.5	106
12	Expression of lignin peroxidase H8 in <i>Escherichia coli</i> : folding and activation of the recombinant enzyme with Ca ²⁺ and haem. <i>Biochemical Journal</i> , 1996, 315, 15-19.	3.7	105
13	Crystal structures of pristine and oxidatively processed lignin peroxidase expressed in <i>Escherichia coli</i> and of the W171F variant that eliminates the redox active tryptophan 171. Implications for the reaction mechanism. <i>Journal of Molecular Biology</i> , 2001, 305, 851-861.	4.2	103
14	Enhanced Biological Straw Saccharification Through Coculturing of Lignocellulose-Degrading Microorganisms. <i>Applied Biochemistry and Biotechnology</i> , 2015, 175, 3709-3728.	2.9	84
15	Autocatalytic Formation of a Hydroxy Group at C ¹ of Trp171 in Lignin Peroxidase. <i>Biochemistry</i> , 1998, 37, 8832-8838.	2.5	82
16	Reversible Dissociation of Thiolate Ligands from Molybdenum in an Enzyme of the Dimethyl Sulfoxide Reductase Family. <i>Biochemistry</i> , 2000, 39, 11258-11269.	2.5	81
17	pH Dependence and Structural Interpretation of the Reactions of <i>Coprinus cinereus</i> Peroxidase with Hydrogen Peroxide, Ferulic Acid, and 2,2'-Azinobis(3-ethylbenzthiazoline-6-sulfonic acid). <i>Biochemistry</i> , 1997, 36, 9453-9463.	2.5	78
18	Spectroscopic evidence for an engineered, catalytically active Trp radical that creates the unique reactivity of lignin peroxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16084-16089.	7.1	73

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19	Reactions of the Class II Peroxidases, Lignin Peroxidase and <i>Arthromyces ramosus</i> Peroxidase, with Hydrogen Peroxide. <i>Journal of Biological Chemistry</i> , 2002, 277, 26879-26885.	3.4	71
20	Recombinant horseradish peroxidase isoenzyme C: the effect of distal haem cavity mutations (His42→Leu) <i>Trends in Biochemistry and Molecular Biology</i> , 1996, 1, 136-142.	2.6	70
21	A Comparative Study of the Inactivation of Wild-Type, Recombinant and Two Mutant Horseradish Peroxidase Isoenzymes C by Hydrogen Peroxide and m-chloroperoxybenzoic Acid. <i>FEBS Journal</i> , 1995, 234, 506-512.	0.2	68
22	Site-Directed Mutagenesis of the Catalytic Tryptophan Environment in <i>Pleurotus eryngii</i> Versatile Peroxidase. <i>Biochemistry</i> , 2008, 47, 1685-1695.	2.5	65
23	Evidence from Spin-Trapping for a Transient Radical on Tryptophan Residue 171 of Lignin Peroxidase. <i>Archives of Biochemistry and Biophysics</i> , 1999, 370, 86-92.	3.0	64
24	Reactions of Dimethylsulfoxide Reductase from <i>Rhodobacter capsulatus</i> with Dimethyl Sulfide and with Dimethyl Sulfoxide: Complexities Revealed by Conventional and Stopped-Flow Spectrophotometry. <i>Biochemistry</i> , 1999, 38, 8501-8511.	2.5	48
25	Identification of a Critical Phenylalanine Residue in Horseradish Peroxidase, Phe179, by Site-Directed Mutagenesis and 1H-NMR: Implications for Complex Formation with Aromatic Donor Molecules. <i>Biochemistry</i> , 1997, 36, 14751-14761.	2.5	45
26	Structural studies by proton-NMR spectroscopy of plant horseradish peroxidase C, the wild-type recombinant protein from <i>Escherichia coli</i> and two protein variants, Phe41 Val and Arg38 Lys. <i>FEBS Journal</i> , 1992, 207, 521-531.	0.2	42
27	Reactions of Dimethylsulfoxide Reductase in the Presence of Dimethyl Sulfide and the Structure of the Dimethyl Sulfide-Modified Enzyme. <i>Biochemistry</i> , 2001, 40, 9810-9820.	2.5	39
28	Solution Characterisation by NMR Spectroscopy of Two Horseradish Peroxidase Isoenzyme C Mutants with Alanine Replacing Either Phe142 or Phe143. <i>FEBS Journal</i> , 1995, 233, 650-658.	0.2	36
29	Effects of phthalic anhydride modification on horseradish peroxidase stability and activity. <i>Biotechnology and Bioengineering</i> , 2003, 81, 233-240.	3.3	36
30	Discovery and characterisation of circular bacteriocin plantacyclin B21AG from <i>Lactiplantibacillus plantarum</i> B21. <i>Heliyon</i> , 2020, 6, e04715.	3.2	35
31	Self-Assembly of Amyloid Fibrils That Display Active Enzymes. <i>ChemCatChem</i> , 2014, 6, 1961-1968.	3.7	34
32	pH-dependent Properties of a Mutant Horseradish Peroxidase Isoenzyme C in which Arg38 has been Replaced with Lysine. <i>FEBS Journal</i> , 1994, 224, 1029-1037.	0.2	33
33	Probing the Aromatic-Donor-Binding Site of Horseradish Peroxidase Using Site-Directed Mutagenesis and the Suicide Substrate Phenylhydrazine. <i>FEBS Journal</i> , 1996, 236, 714-722.	0.2	32
34	Effect of Calcium, Other Ions, and pH on the Reactions of Barley Peroxidase with Hydrogen Peroxide and Fluoride. <i>Journal of Biological Chemistry</i> , 1998, 273, 2232-2240.	3.4	32
35	Effect of Distal Cavity Mutations on the Binding and Activation of Oxygen by Ferrous Horseradish Peroxidase. <i>Journal of Biological Chemistry</i> , 1997, 272, 389-395.	3.4	31
36	Complete Genome Sequence of <i>Lactobacillus plantarum</i> Strain B21, a Bacteriocin-Producing Strain Isolated from Vietnamese Fermented Sausage Nem Chua. <i>Genome Announcements</i> , 2015, 3, .	0.8	27

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37	Laser Photolysis Behavior of Ferrous Horseradish Peroxidase with Carbon Monoxide and Cyanide: Effects of Mutations in the Distal Heme Pocket. <i>Biochemistry</i> , 1995, 34, 14687-14692.	2.5	23
38	Chemical, Spectroscopic and Structural Investigation of the Substrate-Binding Site in Ascorbate Peroxidase. <i>FEBS Journal</i> , 1997, 248, 347-354.	0.2	23
39	Kinetics and Interactions of Molybdenum and Iron-Sulfur Centers in Bacterial Enzymes of the Xanthine Oxidase Family: Mechanistic Implications. <i>Biochemistry</i> , 1999, 38, 14077-14087.	2.5	23
40	Refinement of 3D models of horseradish peroxidase isoenzyme C: Predictions of 2D NMR assignments and substrate binding sites. <i>Proteins: Structure, Function and Bioinformatics</i> , 1996, 26, 204-216.	2.6	22
41	Bioinformatic prospecting and phylogenetic analysis reveals 94 undescribed circular bacteriocins and key motifs. <i>BMC Microbiology</i> , 2020, 20, 77.	3.3	20
42	Haem-linked interactions in horseradish peroxidase revealed by spectroscopic analysis of the Phe-221 ^{Met} mutant. <i>Biochemical Journal</i> , 2001, 353, 181-191.	3.7	16
43	Spectroscopic characterization of mutations at the Phe41 position in the distal haem pocket of horseradish peroxidase C: structural and functional consequences. <i>Biochemical Journal</i> , 2002, 363, 571-579.	3.7	14
44	Structural analysis of the two horseradish peroxidase catalytic residue variants H42E and R38S/H42E: implications for the catalytic cycle. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1803-1812.	2.5	13
45	Spectroscopic and kinetic properties of the horseradish peroxidase mutant T171S. Evidence for selective effects on the reduced state of the enzyme. <i>FEBS Journal</i> , 2005, 272, 5514-5521.	4.7	13
46	An effective microplate method (Biolog MT2) for screening native lignocellulosic-straw-degrading bacteria. <i>Annals of Microbiology</i> , 2015, 65, 2053-2064.	2.6	13
47	Macrolactam analogues of macrolide natural products. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 11301-11316.	2.8	11
48	Expression of Active Horseradish Peroxidase in <i>Saccharomyces cerevisiae</i> . <i>Biochemical Society Transactions</i> , 1992, 20, 111S-111S.	3.4	10
49	Mutation of residues critical for benzohydroxamic acid binding to horseradish peroxidase isoenzyme C. <i>Biopolymers</i> , 2001, 62, 261-267.	2.4	10
50	Expression of <i>Drosophila melanogaster</i> xanthine dehydrogenase in <i>Aspergillus nidulans</i> and some properties of the recombinant enzyme. <i>Biochemical Journal</i> , 2002, 362, 223-229.	3.7	10
51	Mechanistic insight into the initiation step of the reaction of <i>Burkholderia pseudomallei</i> catalase-peroxidase with peroxyacetic acid. <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 801-811.	2.6	10
52	Crystal structure and site-directed mutagenesis of circular bacteriocin plantacyclin B21AG reveals cationic and aromatic residues important for antimicrobial activity. <i>Scientific Reports</i> , 2020, 10, 17398.	3.3	10
53	Spectroscopic characterization of mutations at the Phe41 position in the distal haem pocket of horseradish peroxidase C: structural and functional consequences. <i>Biochemical Journal</i> , 2002, 363, 571.	3.7	8
54	Cloning and functional expression of a food-grade circular bacteriocin, plantacyclin B21AG, in probiotic <i>Lactobacillus plantarum</i> WCFS1. <i>PLoS ONE</i> , 2020, 15, e0232806.	2.5	8

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55	Expression of <i>Drosophila melanogaster</i> xanthine dehydrogenase in <i>Aspergillus nidulans</i> and some properties of the recombinant enzyme. <i>Biochemical Journal</i> , 2002, 362, 223.	3.7	8
56	Investigation of native and mutant plant peroxidases by NMR spectroscopy. <i>Biochemical Society Transactions</i> , 1992, 20, 114S-114S.	3.4	7
57	Haem-linked interactions in horseradish peroxidase revealed by spectroscopic analysis of the Phe-221Met mutant. <i>Biochemical Journal</i> , 2001, 353, 181.	3.7	6
58	Draft Genome Sequence of <i>Lactobacillus plantarum</i> Strain A6, a Strong Acid Producer Isolated from a Vietnamese Fermented Sausage (Nem Chua). <i>Genome Announcements</i> , 2017, 5, .	0.8	5
59	Expression of wild-type and mutated <i>Drosophila melanogaster</i> xanthine dehydrogenases in <i>Aspergillus nidulans</i> . <i>Biochemical Society Transactions</i> , 1997, 25, 520S-520S.	3.4	4
60	Homology Modeling of Horseradish Peroxidase. , 1995, , 75-93.		4
61	Stopped-flow studies on dimethylsulphoxide reductase from <i>Rhodobacter capsulatus</i> : kinetic competence of the dimethylsulphide-reduced intermediate. <i>Biochemical Society Transactions</i> , 1998, 26, S211-S211.	3.4	3
62	Broad spectrum antimicrobial activities from spore-forming bacteria isolated from the Vietnam Sea. <i>PeerJ</i> , 2020, 8, e10117.	2.0	3
63	Refinement of 3D models of horseradish peroxidase isoenzyme C: Predictions of 2D NMR assignments and substrate binding sites. <i>Proteins: Structure, Function and Bioinformatics</i> , 1996, 26, 204-216.	2.6	2
64	Resonance Raman Characterisation of the His42Leu Mutant of Horseradish Peroxidase. , 1995, , 131-132.		0
65	Role of the distal phenylalanine 41 on the properties of horseradish peroxidase C. , 1999, , 149-150.		0