Willem Jh Van Berkel

List of Publications by Year
in descending order

258 papers	12,045 citations	23567 58 h-index	39675 94 g-index
272 all docs	272 docs citations	272 times ranked	9514 citing authors

#	Article	IF	Citations
1	Flavoprotein monooxygenases, a diverse class of oxidative biocatalysts. Journal of Biotechnology, 2006, 124, 670-689.	3.8	611
2	Flavin dependent monooxygenases. Archives of Biochemistry and Biophysics, 2014, 544, 2-17.	3.0	430
3	Baeyerâ€“Villiger Monooxygenases, an Emerging Family of Flavin-Dependent Biocatalysts. Advanced Synthesis and Catalysis, 2003, 345, 667-678.	4.3	250
4	Flavoenzymes. Current Opinion in Chemical Biology, 2007, 11, 195-202.	6.1	240
5	Mical links semaphorins to F-actin disassembly. Nature, 2010, 463, 823-827.	27.8	229
6	Structure and mechanism of paraâ€hydroxybenzoate hydroxylase. FASEB Journal, 1995, 9, 476-483.	0.5	209
7	Oxidoreductases on their way to industrial biotransformations. Biotechnology Advances, 2017, 35, 815-831.	11.7	205
8	Identification of a Baeyer-Villiger monooxygenase sequence motif. FEBS Letters, 2002, 518, 43-47.	2.8	193
9	Discovery of the combined oxidative cleavage of plant xylan and cellulose by a new fungal polysaccharide monooxygenase. Biotechnology for Biofuels, 2015, 8, 101.	6.2	187
10	Pro-Oxidant Activity of Flavonoids Induces EpRE-Mediated Gene Expression. Chemical Research in Toxicology, 2006, 19, 1499-1505.	3.3	185
11	Multiple pathways guide oxygen diffusion into flavoenzyme active sites. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10603-10608.	7.1	157
12	Crystal structures and inhibitor binding in the octameric flavoenzyme vanillyl-alcohol oxidase: the shape of the active-site cavity controls substrate specificity. Structure, 1997, 5, 907-920.	3.3	154
13	Novel peptides with tyrosinase inhibitory activity. Peptides, 2007, 28, 485-495.	2.4	154
14	A novel oxidoreductase family sharing a conserved FAD-binding domain. Trends in Biochemical Sciences, 1998, 23, 206-207.	7.5	141
15	Identification of a novel conserved sequence motif in flavoprotein hydroxylases with a putative dual function in FAD/NAD(P)H binding. Protein Science, 1997, 6, 2454-2458.	7.6	132
16	Lytic polysaccharide monooxygenases from Myceliophthora thermophila C1 differ in substrate preference and reducing agent specificity. Biotechnology for Biofuels, 2016, 9, 186.	6.2	132
17	4-Hydroxyacetophenone monooxygenase fromPseudomonas fluorescensACB. FEBS Journal, 2001, 268, 2547-2557.	0.2	131
18	Peroxygenaseâ€Catalyzed Oxyfunctionalization Reactions Promoted by the Complete Oxidation of Methanol. Angewandte Chemie - International Edition, 2016, 55, 798-801.	13.8	128

#	Article	IF	Citations
19	Purification and characterization of vanillyl-alcohol oxidase from Penicillium simplicissimum. A novel aromatic alcohol oxidase containing covalently bound FAD. FEBS Journal, 1992, 208, 651-657.	0.2	124
20	Hydrocarbon Synthesis via Photoenzymatic Decarboxylation of Carboxylic Acids. Journal of the American Chemical Society, 2019, 141, 3116-3120.	13.7	123
21	Phenol Hydroxylase from Bacillus thermoglucosidasius A7, a Two-protein Component Monooxygenase with a Dual Role for FAD. Journal of Biological Chemistry, 2003, 278, 47545-47553.	3.4	120
22	Crystal Structures of Wild-Type p-Hydroxybenzoate Hydroxylase Complexed with 4-Aminobenzoate, 2,4-Dihydroxybenzoate, and 2-Hydroxy-4-aminobenzoate and of the Tyr222Ala Mutant Complexed with 2-Hydroxy-4-aminobenzoate. Evidence for a Proton Channel and a New Binding Mode of the Flavin Ring. Biochemistry, 1994, 33, 10161-10170.	2.5	119
23	Evaluation of the Effect of Germination on Phenolic Compounds and Antioxidant Activities in Sorghum Varieties. Journal of Agricultural and Food Chemistry, 2005, 53, 2581-2588.	5.2	118
24	3DM: Systematic analysis of heterogeneous superfamily data to discover protein functionalities. Proteins: Structure, Function and Bioinformatics, 2010, 78, NA-NA.	2.6	115
25	Identification of a Novel Self-Sufficient Styrene Monooxygenase from Rhodococcus opacus 1CP. Journal of Bacteriology, 2009, 191, 4996-5009.	2.2	114
26	Deflavination and reconstitution of flavoproteins. FEBS Journal, 2003, 270, 4227-4242.	0.2	110
27	Covalent Flavinylation Is Essential for Efficient Redox Catalysis in Vanillyl-alcohol Oxidase. Journal of Biological Chemistry, 1999, 274, 35514-35520.	3.4	108
28	The growing VAO flavoprotein family. Archives of Biochemistry and Biophysics, 2008, 474, 292-301.	3.0	107
29	Detection of intact megaDalton protein assemblies of vanillylâ€alcohol oxidase by mass spectrometry. Protein Science, 2000, 9, 435-439.	7.6	97
30	Comparison of Content in Phenolic Compounds, Polyphenol Oxidase, and Peroxidase in Grains of Fifty Sorghum Varieties from Burkina Faso. Journal of Agricultural and Food Chemistry, 2002, 50, 3780-3788.	5.2	95
31	Distinct Substrate Specificities and Electron-Donating Systems of Fungal Lytic Polysaccharide Monooxygenases. Frontiers in Microbiology, 2018, 9, 1080.	3.5	92
32	Impact of Phenolic Compounds and Related Enzymes in Sorghum Varieties for Resistance and Susceptibility to Biotic and Abiotic Stresses. Journal of Chemical Ecology, 2005, 31, 2671-2688.	1.8	91
33	Substrate Specificity of Flavin-Dependent Vanillyl-Alcohol Oxidase from Penicillium Simplicissimum. Evidence for the Production of 4-Hydroxycinnamyl Alcohols from 4-Allylphenols. FEBS Journal, 1995, 234, 271-277.	0.2	89
34	Catalytic and Structural Features of Flavoprotein Hydroxylases and Epoxidases. Advanced Synthesis and Catalysis, 2011, 353, 2301-2319.	4.3	89
35	Old Yellow Enzyme-Catalysed Asymmetric Hydrogenation: Linking Family Roots with Improved Catalysis. Catalysts, 2017, 7, 130.	3.5	89
36	Occurrence and Biocatalytic Potential of Carbohydrate Oxidases. Advances in Applied Microbiology, 2006, 60, 17-54.	2.4	87

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37	Three-dimensional Structure of Lipoamide Dehydrogenase from Pseudomonas fluorescens at 2Â·8 Ã... Resolution. Journal of Molecular Biology, 1993, 230, 1200-1215.	4.2	86
38	<scp>l</scp>â€Galactonoâ€Î³â€lactone dehydrogenase from Arabidopsisâ€ƒthaliana, a flavoprotein involved in vitaminâ€ƒC biosynthesis. FEBS Journal, 2008, 275, 713-726.	4.7	86
39	Boosting LPMO-driven lignocellulose degradation by polyphenol oxidase-activated lignin building blocks. Biotechnology for Biofuels, 2017, 10, 121.	6.2	86
40	Identification of a Gatekeeper Residue That Prevents Dehydrogenases from Acting as Oxidases. Journal of Biological Chemistry, 2009, 284, 4392-4397.	3.4	83
41	Catalytic Mechanism of the Oxidative Demethylation of 4-(Methoxymethyl)phenol by Vanillyl-Alcohol Oxidase. Journal of Biological Chemistry, 1997, 272, 18111-18116.	3.4	79
42	Spectral and catalytic properties of aryl-alcohol oxidase, a fungal flavoenzyme acting on polyunsaturated alcohols. Biochemical Journal, 2005, 389, 731-738.	3.7	79
43	Differential induction of rat hepatic glutathione S-transferase isoenzymes by hexachlorobenzene and benzyl isothiocyanate. Biochemical Pharmacology, 1988, 37, 1077-1082.	4.4	78
44	Purification and Characterization of an Intracellular Catalase-Peroxidase from Penicillium Simplicissimum. FEBS Journal, 1996, 235, 192-198.	0.2	78
45	Flavoprotein monooxygenases: Versatile biocatalysts. Biotechnology Advances, 2021, 51, 107712.	11.7	78
46	Correlated mutation analyses on superâ€family alignments reveal functionally important residues. Proteins: Structure, Function and Bioinformatics, 2009, 76, 608-616.	2.6	77
47	Enzymatic Synthesis of Vanillin. Journal of Agricultural and Food Chemistry, 2001, 49, 2954-2958.	5.2	76
48	Inversion of stereospecificity of vanillyl-alcohol oxidase. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 9455-9460.	7.1	74
49	StyA1 and StyA2B from Rhodococcus opacus 1CP: a Multifunctional Styrene Monooxygenase System. Journal of Bacteriology, 2010, 192, 5220-5227.	2.2	72
50	Inducible, Site-Specific Protein Labeling by Tyrosine Oxidationâ€“Strain-Promoted (4 + 2) Cycloaddition. Bioconjugate Chemistry, 2017, 28, 1189-1193.	3.6	71
51	Structural Studies on Flavin Reductase PheA2 Reveal Binding of NAD in an Unusual Folded Conformation and Support Novel Mechanism of Action. Journal of Biological Chemistry, 2004, 279, 12860-12867.	3.4	69
52	Two-Component FAD-Dependent Monooxygenases: Current Knowledge and Biotechnological Opportunities. Biology, 2018, 7, 42.	2.8	68
53	Changing the Substrate Reactivity of 2-Hydroxybiphenyl 3-Monooxygenase from Pseudomonas azelaica HBP1 by Directed Evolution. Journal of Biological Chemistry, 2002, 277, 5575-5582.	3.4	66
54	The equilibrium unfolding of Azotobacter vinelandii apoflavodoxin II occurs via a relatively stable folding intermediate. Protein Science, 1998, 7, 2331-2344.	7.6	64

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55	Horseradish Peroxidase-Catalyzed Cross-Linking of Feruloylated Arabinoxylans with Î²-Casein. Journal of Agricultural and Food Chemistry, 2004, 52, 6633-6639.	5.2	64
56	Structural Analysis of Flavinylation in Vanillyl-Alcohol Oxidase. Journal of Biological Chemistry, 2000, 275, 38654-38658.	3.4	63
57	Crystal structure of pâ€hydroxybenzoate hydroxylase reconstituted with the modified fad present in alcohol oxidase from methylotrophic yeasts: Evidence for an arabinoflavin. Protein Science, 1994, 3, 2245-2253.	7.6	61
58	Role of Tyr201 and Tyr385 in substrate activation by p-hydroxybenzoate hydroxylase from Pseudomonas fluorescens. FEBS Journal, 1993, 216, 137-146.	0.2	59
59	Substitution of Arg214 at the substrate-binding site of p, -hydroxybenzoate hydroxylase from Pseudomonas fluorescens. FEBS Journal, 1992, 210, 411-419.	0.2	58
60	Galactonolactone Dehydrogenase Requires a Redox-Sensitive Thiol for Optimal Production of Vitamin C. Plant Physiology, 2009, 150, 596-605.	4.8	58
61	More efficient redox biocatalysis by utilising 1,4-butanediol as a â€˜smart cosubstrateâ€™. Green Chemistry, 2013, 15, 330.	9.0	56
62	A Study of p-Hydroxybenzoate Hydroxylase from Pseudomonas fluorescens. Improved Purification, Relative Molecular Mass, and Amino Acid Composition. FEBS Journal, 1979, 101, 235-244.	0.2	55
63	Switch of coenzyme specificity of p -hydroxybenzoate hydroxylase 1 1Edited by A. R. Fersht. Journal of Molecular Biology, 1999, 292, 87-96.	4.2	55
64	Last In, First Out. Journal of Biological Chemistry, 2005, 280, 7836-7844.	3.4	55
65	Flavoenzyme-Catalyzed Oxygenations and Oxidations of Phenolic Compounds. Advanced Synthesis and Catalysis, 2002, 344, 1023-1035.	4.3	54
66	Elucidation of the 4-Hydroxyacetophenone Catabolic Pathway in Pseudomonas fluorescens ACB. Journal of Bacteriology, 2008, 190, 5190-5198.	2.2	53
67	Hydroquinone Dioxygenase from Pseudomonas fluorescens ACB: a Novel Member of the Family of Nonheme-Iron(II)-Dependent Dioxygenases. Journal of Bacteriology, 2008, 190, 5199-5209.	2.2	53
68	Encapsulation of GFP in Complex Coacervate Core Micelles. Biomacromolecules, 2015, 16, 1542-1549.	5.4	53
69	Purification and properties of hydroquinone hydroxylase, a FAD-dependent monooxygenase involved in the catabolism of 4-hydroxybenzoate in Candida parapsilosis CBS604. FEBS Journal, 2000, 267, 6832-6840.	0.2	51
70	Quantification of the catalytic performance of C1-cellulose-specific lytic polysaccharide monooxygenases. Applied Microbiology and Biotechnology, 2018, 102, 1281-1295.	3.6	51
71	Frontier orbital study on the 4-hydroxybenzoate-3-hydroxylase-dependent activity with benzoate derivatives. FEBS Journal, 1992, 206, 479-484.	0.2	49
72	19F NMR study on the biodegradation of fluorophenols by various Rhodococcus species. Biodegradation, 1998, 9, 475-486.	3.0	49

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73	Interdomain binding of NADPH in p-Hydroxybenzoate Hydroxylase as Suggested by Kinetic, Crystallographic and Modeling Studies of Histidine 162 and Arginine 269 Variants. Journal of Biological Chemistry, 1998, 273, 21031-21039.	3.4	49
74	Stereoselective Carveol Dehydrogenase from Rhodococcus erythropolis DCL14. Journal of Biological Chemistry, 1999, 274, 26296-26304.	3.4	49
75	Degradation of 3,4â€Dichloroâ€•and 3,4â€Difluoroaniline byPseudomonas fluorescens26â€K. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2003, 38, 121-132.	1.5	49
76	Laboratory-evolved Vanillyl-alcohol Oxidase Produces Natural Vanillin. Journal of Biological Chemistry, 2004, 279, 33492-33500.	3.4	49
77	The temperature and pH dependence of some properties of p-hydroxybenzoate hydroxylase from Pseudomonas fluorescens. FEBS Journal, 1989, 179, 307-314.	0.2	48
78	A crystallographic study of Cys69Ala flavodoxin II fromAzotobacter vinelandii: Structural determinants of redox potential. Protein Science, 2005, 14, 2284-2295.	7.6	48
79	Effects of germination on the activities of amylases and phenolic enzymes in sorghum varieties grouped according to food end-use properties. Journal of the Science of Food and Agriculture, 2006, 86, 953-963.	3.5	48
80	Molecular Cloning, Sequencing, and Heterologous Expression of the vaoA Gene from Penicillium simplicissimum CBS 170.90 Encoding Vanillyl-Alcohol Oxidase. Journal of Biological Chemistry, 1998, 273, 7865-7872.	3.4	47
81	Seven new mutations in the nicotinamide adenine dinucleotide reducedâ€“cytochrome b5 reductase gene leading to methemoglobinemia type I. Blood, 2001, 97, 1106-1114.	1.4	47
82	19 F NMR metabolomics for the elucidation of microbial degradation pathways of fluorophenols. Journal of Industrial Microbiology and Biotechnology, 2001, 26, 22-34.	3.0	47
83	19 F Nuclear Magnetic Resonance as a Tool To Investigate Microbial Degradation of Fluorophenols to Fluorocatechols and Fluoromuconates. Applied and Environmental Microbiology, 1998, 64, 1256-1263.	3.1	46
84	The elucidation of the microheterogeneity of highly purified p-hydroxybenzoate hydroxylase from Pseudomonas fluorescens by various biochemical techniques. FEBS Journal, 1987, 167, 35-46.	0.2	44
85	13C-NMR. Study on Isoalloxazine and Alloxazine Derivatives. Helvetica Chimica Acta, 1977, 60, 367-379.	1.6	43
86	Catalytic Mechanism of 2-Hydroxybiphenyl 3-Monooxygenase, a Flavoprotein from Pseudomonas azelaica HBP1. Journal of Biological Chemistry, 1999, 274, 33355-33365.	3.4	43
87	A Study on p-Hydroxybenzoate Hydroxylase from Pseudomonas fluorescens. FEBS Journal, 2005, 128, 21-27.	0.2	43
88	Plant Aromatic Prenyltransferases: Tools for Microbial Cell Factories. Trends in Biotechnology, 2020, 38, 917-934.	9.3	43
89	Crystal Structure of 3-Hydroxybenzoate 6-Hydroxylase Uncovers Lipid-assisted Flavoprotein Strategy for Regioselective Aromatic Hydroxylation. Journal of Biological Chemistry, 2013, 288, 26235-26245.	3.4	42
90	Influence of Lytic Polysaccharide Monooxygenase Active Site Segments on Activity and Affinity. International Journal of Molecular Sciences, 2019, 20, 6219.	4.1	41

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91	Regio- and Stereospecific Conversion of 4-Alkylphenols by the Covalent Flavoprotein Vanillyl-Alcohol Oxidase. Journal of Bacteriology, 1998, 180, 5646-5651.	2.2	41
92	The VAO/PCMH flavoprotein family. Archives of Biochemistry and Biophysics, 2017, 632, 104-117.	3.0	40
93	Enzymatic Baeyer-Villiger Oxidation of Benzaldehydes. Advanced Synthesis and Catalysis, 2005, 347, 1027-1034.	4.3	39
94	Antitumor astins originate from the fungal endophyte Cyanodermella asteris living within the medicinal plant Aster tataricus. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26909-26917.	7.1	39
95	4-Hydroxybenzoate Hydroxylase from Pseudomonas Sp. CBS3. Purification, Characterization, Gene Cloning, Sequence Analysis and Assignment of Structural Features Determining the Coenzyme Specificity. FEBS Journal, 1996, 239, 469-478.	0.2	38
96	Directing the Oligomer Size Distribution of Peroxidase-Mediated Cross-Linked Bovine Î±-Lactalbumin. Journal of Agricultural and Food Chemistry, 2010, 58, 5692-5697.	5.2	38
97	Studies on the active site of rat glutathione S-transferase isoenzyme 4-4. Chemical modification by tetrachloro-1,4-benzoquinone and its glutathione conjugate. FEBS Journal, 1989, 181, 423-429.	0.2	37
98	Asp-170 Is Crucial for the Redox Properties of Vanillyl-alcohol Oxidase. Journal of Biological Chemistry, 2000, 275, 14799-14808.	3.4	37
99	Horseradish Peroxidase-catalyzed Oligomerization of Ferulic Acid on a Template of a Tyrosine-containing Tripeptide. Journal of Biological Chemistry, 2002, 277, 21332-21340.	3.4	36
100	A His-tag based immobilization method for the preparation and reconstitution of apoflavoproteins. Biochimica Et Biophysica Acta - General Subjects, 2003, 1619, 139-143.	2.4	36
101	Functional annotation and characterization of 3-hydroxybenzoate 6-hydroxylase from Rhodococcus jostii RHA1. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2012, 1824, 433-442.	2.3	36
102	Inhibition of Enzymatic Browning of Chlorogenic Acid by Sulfur-Containing Compounds. Journal of Agricultural and Food Chemistry, 2012, 60, 3507-3514.	5.2	36
103	Alternative coenzymes for biocatalysis. Current Opinion in Biotechnology, 2019, 60, 63-71.	6.6	36
104	Purification and characteriation of 3-hydroxyphenylacetate 6-hydroxylase: a novel FAD-dependent monooxygenase from a Flavobacterium species. FEBS Journal, 1991, 201, 585-592.	0.2	34
105	Enantioselective hydroxylation of 4-alkylphenols by vanillyl alcohol oxidase. , 1998, 59, 171-177.		34
106	Perspectives for on-site monitoring of progesterone. Trends in Biotechnology, 2009, 27, 652-660.	9.3	34
107	Flavin-dependent N-hydroxylating enzymes: distribution and application. Applied Microbiology and Biotechnology, 2020, 104, 6481-6499.	3.6	34
108	Biochemical characterization of the major sorghum grain peroxidase. FEBS Journal, 2006, 273, 2293-2307.	4.7	33

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109	Distant residues mediate picomolar binding affinity of a protein cofactor. Nature Communications, 2012, 3, 1010.	12.8	33
110	Large-scale preparation and reconstitution of apo-flavoproteins with special reference to butyryl-CoA dehydrogenase from Megasphaera elsdenii. Hydrophobic-interaction chromatography. FEBS Journal, 1988, 178, 197-207.	0.2	32
111	Molecular relaxation spectroscopy of flavin adenine dinucleotide in wild type and mutant lipoamide dehydrogenase from Azotobacter vinelandii. Biochemistry, 1992, 31, 7061-7068.	2.5	32
112	Catalytic and hydrodynamic properties of styrene monooxygenases from Rhodococcus opacus 1CP are modulated by cofactor binding. AMB Express, 2015, 5, 112.	3.0	32
113	Genome Analysis and Physiological Comparison of Alicycliphilus denitrificans Strains BC and K601T. PLoS ONE, 2013, 8, e66971.	2.5	32
114	Kinetic mechanism of vanillyl-alcohol oxidase with short-chain 4-alkylphenols. FEBS Journal, 1998, 253, 712-719.	0.2	31
115	Cofactor-dependent Assembly of the Flavoenzyme Vanillyl-alcohol Oxidase. Journal of Biological Chemistry, 2002, 277, 36425-36432.	3.4	31
116	Coenzyme Binding during Catalysis Is Beneficial for the Stability of 4-Hydroxyacetophenone Monooxygenase. Journal of Biological Chemistry, 2005, 280, 32115-32121.	3.4	31
117	Genome Sequences of Alicycliphilus denitrificans Strains BC and K601 ^T. Journal of Bacteriology, 2011, 193, 5028-5029.	2.2	31
118	Oxygen Activation of Apoâ€obelinâ€“Coelenterazine Complex. ChemBioChem, 2013, 14, 739-745.	2.6	31
119	Reductive deamination as a new step in the anaerobic microbial degradation of halogenated anilines. FEMS Microbiology Letters, 2002, 209, 307-312.	1.8	30
120	Bioluminescent and spectroscopic properties of Hisâ€”Trpâ€”Tyr triad mutants of obelin and aequorin. Photochemical and Photobiological Sciences, 2013, 12, 1016-1024.	2.9	30
121	The Reaction Kinetics of 3-Hydroxybenzoate 6-Hydroxylase from Rhodococcus jostii RHA1 Provide an Understanding of the para-Hydroxylation Enzyme Catalytic Cycle. Journal of Biological Chemistry, 2013, 288, 35210-35221.	3.4	30
122	On the FAD-induced dimerization of apo-lipoamide dehydrogenase from Azotobacter vinelandii and Pseudomonas fluorescens. Kinetics of reconstitution. FEBS Journal, 1991, 197, 769-779.	0.2	29
123	Lipomide dehydrogenase from Azotobacter vinelandii: site-directed mutagenesis of the His450-Glu455 diad. Kinetics of wild-type and mutated enzymes. FEBS Journal, 1992, 207, 487-497.	0.2	29
124	Vanillyl-alcohol oxidase, a tasteful biocatalyst. Journal of Molecular Catalysis B: Enzymatic, 2001, 11, 185-188.	1.8	29
125	Identification of the Peroxidase-Generated Intermolecular Dityrosine Cross-Link in Bovine Î±-Lactalbumin. Journal of Agricultural and Food Chemistry, 2011, 59, 444-449.	5.2	29
126	Functional characterization and stability improvement of a â€˜thermophilic-likeâ€™ ene-reductase from Rhodococcus opacus 1CP. Frontiers in Microbiology, 2015, 6, 1073.	3.5	29

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127	The intrinsic fluorescence of apoâ€•obelin and apoâ€•aequorin and use of its quenching to characterize coelenterazine binding. FEBS Letters, 2009, 583, 1939-1944.	2.8	28
128	Picosecond Fluorescence Relaxation Spectroscopy of the Calcium-Discharged Photoproteins Aequorin and Obelin. Biochemistry, 2009, 48, 10486-10491.	2.5	28
129	On the origin of vanillyl alcohol oxidases. Fungal Genetics and Biology, 2018, 116, 24-32.	2.1	28
130	Properties of the complexes of riboflavin 3',5'-bisphosphate and the apoflavodoxins from Megasphaera elsdenii and Desulfovibrio vulgaris. FEBS Journal, 1986, 161, 749-756.	0.2	27
131	19F NMR Study on the Regiospecificity of Hydroxylation of Tetrafluoro-4-hydroxybenzoate by Wild-Type and Y385Fp-Hydroxybenzoate Hydroxylase:Â Evidence for a Consecutive Oxygenolytic Dehalogenation Mechanismâ€. Biochemistry, 1997, 36, 14192-14201.	2.5	27
132	Lys42 and Ser42 variants of p-hydroxybenzoate hydroxylase from Pseudomonas fluorescens reveal that Arg42 is essential for NADPH binding. FEBS Journal, 1998, 253, 194-201.	0.2	27
133	Biocatalytic Potential ofp-Hydroxybenzoate Hydroxylase fromRhodococcus rhodnii 135 andRhodococcus opacus 557. Advanced Synthesis and Catalysis, 2004, 346, 367-375.	4.3	27
134	The antibrowning agent sulfite inactivates AgaricusÂbisporus tyrosinase through covalent modification of the copperâ€B site. FEBS Journal, 2013, 280, 6184-6195.	4.7	27
135	Potato and Mushroom Polyphenol Oxidase Activities Are Differently Modulated by Natural Plant Extracts. Journal of Agricultural and Food Chemistry, 2014, 62, 214-221.	5.2	27
136	NMR studies on p-hydroxybenzoate hydroxylase from Pseudomonas fluorescens and salicylate hydroxylase from Pseudomonas putida. FEBS Journal, 1991, 200, 731-738.	0.2	26
137	Determination of the permeability and porosity of anaerobic sludge granules by size exclusion chromatography. Applied Microbiology and Biotechnology, 1992, 36, 795-799.	3.6	26
138	Role of key residues of obelin in coelenterazine binding and conversion into 2-hydroperoxy adduct. Journal of Photochemistry and Photobiology B: Biology, 2013, 127, 133-139.	3.8	26
139	Complete Enzymatic Oxidation of Methanol to Carbon Dioxide: Towards More Ecoâ€Efficient Regeneration Systems for Reduced Nicotinamide Cofactors. Advanced Synthesis and Catalysis, 2015, 357, 1687-1691.	4.3	26
140	Chemical modification of sulfhydryl groups in p-hydroxybenzoate hydroxylase from Pseudomonas fluorescens. Involvement in catalysis and assignment in the sequence. FEBS Journal, 1984, 145, 245-256.	0.2	25
141	Site-directed mutagenesis of selected residues at the active site of aryl-alcohol oxidase, an H2O2-producing ligninolytic enzyme. FEBS Journal, 2006, 273, 4878-4888.	4.7	25
142	Activation of EpRE-mediated gene transcription by quercetin glucuronides depends on their deconjugation. Food and Chemical Toxicology, 2008, 46, 2128-2134.	3.6	25
143	Elucidation of In Situ Ligninolysis Mechanisms of the Selective White-Rot Fungus Ceriporiopsis subvermispora. ACS Sustainable Chemistry and Engineering, 2019, 7, 16757-16764.	6.7	25
144	Evidence for ligninolytic activity of the ascomycete fungus Podospora anserina. Biotechnology for Biofuels, 2020, 13, 75.	6.2	25

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145	19F-NMR study on the pH-dependent regioselectivity and rate of the ortho-hydroxylation of 3-fluorophenol by phenol hydroxylase from Trichosporon cutaneum. Implications for the reaction mechanism. FEBS Journal, 1993, 218, 345-353.	0.2	24
146	Biocatalytic potential of laccase-like multicopper oxidases from Aspergillus niger. Microbial Cell Factories, 2012, 11, 165.	4.0	24
147	Uniformly ¹³C Labeled Lignin Internal Standards for Quantitative Pyrolysisâ^'GCâ^'MS Analysis of Grass and Wood. ACS Sustainable Chemistry and Engineering, 2019, 7, 20070-20076.	6.7	24
148	Molecular Cloning and Sequence Determination of the lpd Gene Encoding Lipoamide Dehydrogenase from Pseudomonas fluorescens. Microbiology (United Kingdom), 1989, 135, 1787-1797.	1.8	24
149	Lipoamide Dehydrogenase from Azotobacter vinelandii: site-directed mutagenesis of the His450-Glu455 diad. Spectral properties of wild type and mutated enzymes. FEBS Journal, 1991, 202, 863-872.	0.2	23
150	Mercuration of vanillyl-alcohol oxidase from Penicillium simplicissimum generates inactive dimers. FEBS Letters, 1997, 402, 33-35.	2.8	23
151	Purification and properties of p-hydroxybenzoate hydroxylases from Rhodococcus strains. Biochemistry (Moscow), 2001, 66, 898-903.	1.5	23
152	Flavoenzymeâ€mediated Regioselective Aromatic Hydroxylation with Coenzyme Biomimetics. ChemCatChem, 2020, 12, 1368-1375.	3.7	23
153	Catabolism of 4-hydroxybenzoate in proceeds through initial oxidative decarboxylation by a FAD-dependent 4-hydroxybenzoate 1-hydroxylase. FEMS Microbiology Letters, 1994, 121, 207-215.	1.8	23
154	The ins and outs of vanillyl alcohol oxidase: Identification of ligand migration paths. PLoS Computational Biology, 2017, 13, e1005787.	3.2	23
155	The importance of monopole-monopole and monopole-dipole interactions on the binding of NADPH and NADPH analogues to p-hydroxybenzoate hydroxylase from Pseudomonas fluorescens. Effects of pH and ionic strength. FEBS Journal, 1984, 139, 637-644.	0.2	22
156	Identification of Fluoropyrogallols as New Intermediates in Biotransformation of Monofluorophenols in Rhodococcus opacus 1cp. Applied and Environmental Microbiology, 2000, 66, 2148-2153.	3.1	22
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