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	Regioselective C4 and C6 Double Oxidation of Cellulose by Lytic Polysaccharide Monooxygenases. ChemSusChem, 2022, 15, .	6.8	11
2	Extending the diversity of Myceliophthora thermophila LPMOs: Two different xyloglucan cleavage profiles. Carbohydrate Polymers, 2022, 288, 119373.	10.2	2
3	Natural diversity of FAD-dependent 4-hydroxybenzoate hydroxylases. Archives of Biochemistry and Biophysics, 2021, 702, 108820.	3.0	18
4	Flavoprotein monooxygenases: Versatile biocatalysts. Biotechnology Advances, 2021, 51, 107712.	11.7	78
5	Oxidized Product Profiles of AA9 Lytic Polysaccharide Monooxygenases Depend on the Type of Cellulose. ACS Sustainable Chemistry and Engineering, 2021, 9, 14124-14133.	6.7	11
6	The Endophytic Fungus Cyanodermella asteris Influences Growth of the Non-Natural Host Plant Arabidopsis thaliana. Molecular Plant-Microbe Interactions, 2021, , .	2.6	4
7	Flavoenzymeâ€mediated Regioselective Aromatic Hydroxylation with Coenzyme Biomimetics. ChemCatChem, 2020, 12, 1368-1375.	3.7	23
8	Vanillyl alcohol oxidase. The Enzymes, 2020, 47, 87-116.	1.7	17
9	Substrate binding tunes the reactivity of hispidin 3-hydroxylase, a flavoprotein monooxygenase involved in fungal bioluminescence. Journal of Biological Chemistry, 2020, 295, 16013-16022.	3.4	5
10	Configuration of active site segments in lytic polysaccharide monooxygenases steers oxidative xyloglucan degradation. Biotechnology for Biofuels, 2020, 13, 95.	6.2	22
11	Flavin-dependent N-hydroxylating enzymes: distribution and application. Applied Microbiology and Biotechnology, 2020, 104, 6481-6499.	3.6	34
12	Tuning of pK values activates substrates in flavin-dependent aromatic hydroxylases. Journal of Biological Chemistry, 2020, 295, 3965-3981.	3.4	11
13	Mass spectrometric fragmentation patterns discriminate C1- and C4-oxidised cello-oligosaccharides from their non-oxidised and reduced forms. Carbohydrate Polymers, 2020, 234, 115917.	10.2	16
14	Plant Aromatic Prenyltransferases: Tools for Microbial Cell Factories. Trends in Biotechnology, 2020, 38, 917-934.	9.3	43
15	Evidence for ligninolytic activity of the ascomycete fungus Podospora anserina. Biotechnology for Biofuels, 2020, 13, 75.	6.2	25
16	Structural Motifs of Wheat Straw Lignin Differ in Susceptibility to Degradation by the White-Rot Fungus Ceriporiopsis subvermispora. ACS Sustainable Chemistry and Engineering, 2019, 7, 20032-20042.	6.7	20
17	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
18	Hydrocarbon Synthesis via Photoenzymatic Decarboxylation of Carboxylic Acids. Journal of the American Chemical Society, 2019, 141, 3116-3120.	13.7	123

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19	Alternative coenzymes for biocatalysis. Current Opinion in Biotechnology, 2019, 60, 63-71.	6.6	36
20	Astin C Production by the Endophytic Fungus Cyanodermella asteris in Planktonic and Immobilized Culture Conditions. Biotechnology Journal, 2019, 14, e1800624.	3.5	7
21	Editorial: Actinobacteria, a Source of Biocatalytic Tools. Frontiers in Microbiology, 2019, 10, 800.	3.5	9
22	Dimerization of Proline Dehydrogenase from Thermus thermophilus Is Crucial for Its Thermostability. Biotechnology Journal, 2019, 14, 1800540.	3.5	4
23	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
24	Influence of Lytic Polysaccharide Monooxygenase Active Site Segments on Activity and Affinity. International Journal of Molecular Sciences, 2019, 20, 6219.	4.1	41
25	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
26	Multigram Scale Enzymatic Synthesis of (R)â€1â€(4â€²â€Hydroxyphenyl)ethanol Using Vanillyl Alcohol Oxidase. Advanced Synthesis and Catalysis, 2018, 360, 2370-2376.	4.3	9
27	Quantification of the catalytic performance of C1-cellulose-specific lytic polysaccharide monooxygenases. Applied Microbiology and Biotechnology, 2018, 102, 1281-1295.	3.6	51
28	Pyridine Nucleotide Coenzyme Specificity of p-Hydroxybenzoate Hydroxylase and Related Flavoprotein Monooxygenases. Frontiers in Microbiology, 2018, 9, 3050.	3.5	17
29	Catalytic Performance of a Class III Old Yellow Enzyme and Its Cysteine Variants. Frontiers in Microbiology, 2018, 9, 2410.	3.5	9
30	FRET Reveals the Formation and Exchange Dynamics of Protein-Containing Complex Coacervate Core Micelles. Langmuir, 2018, 34, 12083-12092.	3.5	16
31	A Xylenol Orange-Based Screening Assay for the Substrate Specificity of Flavin-Dependent para-Phenol Oxidases. Molecules, 2018, 23, 164.	3.8	11
32	On the origin of vanillyl alcohol oxidases. Fungal Genetics and Biology, 2018, 116, 24-32.	2.1	28
33	Two-Component FAD-Dependent Monooxygenases: Current Knowledge and Biotechnological Opportunities. Biology, 2018, 7, 42.	2.8	68
34	Distinct Substrate Specificities and Electron-Donating Systems of Fungal Lytic Polysaccharide Monooxygenases. Frontiers in Microbiology, 2018, 9, 1080.	3.5	92
35	Functional Impact of the N-terminal Arm of Proline Dehydrogenase from Thermus thermophilus. Molecules, 2018, 23, 184.	3.8	6
36	Flavin-Dependent Monooxygenases with Special Reference to p-Hydroxybenzoate Hydroxylase. , 2018, , 1-30.		5

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37	RP-UHPLC-UV-ESI-MS/MS analysis of LPMO generated C4-oxidized gluco-oligosaccharides after non-reductive labeling with 2-aminobenzamide. Carbohydrate Research, 2017, 448, 191-199.	2.3	16
38	Proline dehydrogenase from Thermus thermophilus does not discriminate between FAD and FMN as cofactor. Scientific Reports, 2017, 7, 43880.	3.3	13
39	Structure and function of Aspergillus niger laccase McoG. Biocatalysis, 2017, 3, 1-21.	2.3	18
40	Inducible, Site-Specific Protein Labeling by Tyrosine Oxidationâ€“Strain-Promoted (4 + 2) Cycloaddition. Bioconjugate Chemistry, 2017, 28, 1189-1193.	3.6	71
41	Chaotropic heat treatment resolves nativeâ€like aggregation of a heterologously produced hyperthermostable laminarinase. Biotechnology Journal, 2017, 12, 1700007.	3.5	3
42	Encapsulation into complex coacervate core micelles promotes EGFP dimerization. Physical Chemistry Chemical Physics, 2017, 19, 11380-11389.	2.8	14
43	Boosting LPMO-driven lignocellulose degradation by polyphenol oxidase-activated lignin building blocks. Biotechnology for Biofuels, 2017, 10, 121.	6.2	86
44	Oxidoreductases on their way to industrial biotransformations. Biotechnology Advances, 2017, 35, 815-831.	11.7	205
45	Communication. Vanillyl alcohol oxidases produced in Komagataella phaffii contain a highly stable noncovalently bound anionic FAD semiquinone. Biocatalysis, 2017, 3, .	2.3	9
46	N -terminus determines activity and specificity of styrene monooxygenase reductases. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2017, 1865, 1770-1780.	2.3	8
47	Two tyrosine residues, Tyr-108 and Tyr-503, are responsible for the deprotonation of phenolic substrates in vanillyl-alcohol oxidase. Journal of Biological Chemistry, 2017, 292, 14668-14679.	3.4	14
48	The VAO/PCMH flavoprotein family. Archives of Biochemistry and Biophysics, 2017, 632, 104-117.	3.0	40
49	Unanimous Model for Describing the Fast Bioluminescence Kinetics of Ca²⁺â€regulated Photoproteins of Different Organisms. Photochemistry and Photobiology, 2017, 93, 495-502.	2.5	9
50	Old Yellow Enzyme-Catalysed Asymmetric Hydrogenation: Linking Family Roots with Improved Catalysis. Catalysts, 2017, 7, 130.	3.5	89
51	Colorful Packages: Encapsulation of Fluorescent Proteins in Complex Coacervate Core Micelles. International Journal of Molecular Sciences, 2017, 18, 1557.	4.1	11
52	3-Hydroxybenzoate 6-Hydroxylase from Rhodococcus jostii RHA1 Contains a Phosphatidylinositol Cofactor. Frontiers in Microbiology, 2017, 8, 1110.	3.5	11
53	Cyanodermella asteris sp. nov. (Ostropales) from the inflorescence axis of Aster tataricus. Mycotaxon, 2017, 132, 107-123.	0.3	16
54	The ins and outs of vanillyl alcohol oxidase: Identification of ligand migration paths. PLoS Computational Biology, 2017, 13, e1005787.	3.2	23

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55	A single loop is essential for the octamerization of vanillyl alcohol oxidase. FEBS Journal, 2016, 283, 2546-2559.	4.7	13
56	Tyr217 and His213 are important for substrate binding and hydroxylation of 3â€hydroxybenzoate 6â€hydroxylase from Rhodococcus jostii <scp>RHA</scp>1. FEBS Journal, 2016, 283, 860-881.	4.7	12
57	Transientâ€state kinetic analysis of complex formation between photoprotein clytin and <scp>GFP</scp> from jellyfish Clytia gregaria. FEBS Letters, 2016, 590, 307-316.	2.8	3
58	The cyclochlorotine mycotoxin is produced by the nonribosomal peptide synthetase CctN in Talaromyces islandicus (â€˜Penicillium islandicumâ€™). Environmental Microbiology, 2016, 18, 3728-3741.	3.8	15
59	Peroxygenaseâ€Catalyzed Oxyfunctionalization Reactions Promoted by the Complete Oxidation of Methanol. Angewandte Chemie - International Edition, 2016, 55, 798-801.	13.8	128
60	Characterization of a bacterial pyranose 2-oxidase from Arthrobacter siccitolerans. Journal of Molecular Catalysis B: Enzymatic, 2016, 133, S34-S43.	1.8	17
61	The Ribosome Restrains Molten Globule Formation in Stalled Nascent Flavodoxin. Journal of Biological Chemistry, 2016, 291, 25911-25920.	3.4	5
62	Special issue OxiZymes 2016. Journal of Molecular Catalysis B: Enzymatic, 2016, 134, 273.	1.8	0
63	Lytic polysaccharide monooxygenases from Myceliophthora thermophila C1 differ in substrate preference and reducing agent specificity. Biotechnology for Biofuels, 2016, 9, 186.	6.2	132
64	A more polar N-terminal helix releases MBP-tagged Thermus thermophilus proline dehydrogenase from tetramer-polymer self-association. Journal of Molecular Catalysis B: Enzymatic, 2016, 134, 340-346.	1.8	5
65	Catalytic and hydrodynamic properties of styrene monooxygenases from Rhodococcus opacus 1CP are modulated by cofactor binding. AMB Express, 2015, 5, 112.	3.0	32
66	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
67	High yields of active Thermus thermophilus proline dehydrogenase are obtained using maltoseâ€binding protein as a solubility tag. Biotechnology Journal, 2015, 10, 395-403.	3.5	10
68	Stalled flavodoxin binds its cofactor while fully exposed outside the ribosome. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2015, 1854, 1317-1324.	2.3	4
69	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
70	Encapsulation of GFP in Complex Coacervate Core Micelles. Biomacromolecules, 2015, 16, 1542-1549.	5.4	53
71	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
72	Draft genome sequence of Talaromyces islandicus (â€œPenicillium islandicumâ€) WF-38-12, a neglected mold with significant biotechnological potential. Journal of Biotechnology, 2015, 211, 101-102.	3.8	17

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73	Oxizymes for Biotechnology. Current Biotechnology, 2015, 4, 100-110.	0.4	16
74	Flavin dependent monooxygenases. Archives of Biochemistry and Biophysics, 2014, 544, 2-17.	3.0	430
75	Bifunctional immobilization of a hyperthermostable endo-Î²-1,3-glucanase. Applied Microbiology and Biotechnology, 2014, 98, 1155-1163.	3.6	5
76	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
77	The Oxidation of Thiols by Flavoprotein Oxidases: a Biocatalytic Route to Reactive Thiocarbonyls. Angewandte Chemie - International Edition, 2014, 53, 13206-13209.	13.8	20
78	Aldonolactone Oxidoreductases. Methods in Molecular Biology, 2014, 1146, 95-111.	0.9	2
79	FAD C(4a)â€hydroxide stabilized in a naturally fused styrene monooxygenase. FEBS Letters, 2013, 587, 3848-3852.	2.8	20
80	The antibrowning agent sulfite inactivates AgaricusÂbisporus tyrosinase through covalent modification of the copperâ€B site. FEBS Journal, 2013, 280, 6184-6195.	4.7	27
81	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
82	Oxygen Activation of Apoâ€obelinâ€“Coelenterazine Complex. ChemBioChem, 2013, 14, 739-745.	2.6	31
83	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
84	More efficient redox biocatalysis by utilising 1,4-butanediol as a â€˜smart cosubstrateâ€™. Green Chemistry, 2013, 15, 330.	9.0	56
85	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
86	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
87	Communication between <scp>L</scp>â€galactonoâ€1,4â€lactone dehydrogenase and cytochrome c. FEBS Journal, 2013, 280, 1830-1840.	4.7	19
88	3 The flavin monooxygenases. , 2013, , 51-72.		4
89	Genome Analysis and Physiological Comparison of Alicycliphilus denitrificans Strains BC and K601T. PLoS ONE, 2013, 8, e66971.	2.5	32
90	Distant residues mediate picomolar binding affinity of a protein cofactor. Nature Communications, 2012, 3, 1010.	12.8	33

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91	Ligand binding and conformational states of the photoprotein obelin. FEBS Letters, 2012, 586, 4173-4179.	2.8	4
92	Reduction Kinetics of 3-Hydroxybenzoate 6-Hydroxylase from Rhodococcus jostii RHA1. Biochemistry, 2012, 51, 4309-4321.	2.5	18
93	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
94	Biocatalytic potential of laccase-like multicopper oxidases from Aspergillus niger. Microbial Cell Factories, 2012, 11, 165.	4.0	24
95	Inhibition of Enzymatic Browning of Chlorogenic Acid by Sulfur-Containing Compounds. Journal of Agricultural and Food Chemistry, 2012, 60, 3507-3514.	5.2	36
96	Cofactor Binding Protects Flavodoxin against Oxidative Stress. PLoS ONE, 2012, 7, e41363.	2.5	9
97	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
98	Catalytic and Structural Features of Flavoprotein Hydroxylases and Epoxidases. Advanced Synthesis and Catalysis, 2011, 353, 2301-2319.	4.3	89
99	Galactonolactone oxidoreductase from Trypanosoma cruzi employs a FAD cofactor for the synthesis of vitamin C. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 545-552.	2.3	14
100	Genome Sequences of Alicycliphilus denitrificans Strains BC and K601 ^T. Journal of Bacteriology, 2011, 193, 5028-5029.	2.2	31
101	In-line quantification of peroxidase-catalyzed cross-linking of Î±-lactalbumin in a microreactor. Chemical Engineering Journal, 2010, 157, 189-193.	12.7	14
102	3DM: Systematic analysis of heterogeneous superfamily data to discover protein functionalities. Proteins: Structure, Function and Bioinformatics, 2010, 78, NA-NA.	2.6	115
103	Mical links semaphorins to F-actin disassembly. Nature, 2010, 463, 823-827.	27.8	229
104	StyA1 and StyA2B from Rhodococcus opacus 1CP: a Multifunctional Styrene Monooxygenase System. Journal of Bacteriology, 2010, 192, 5220-5227.	2.2	72
105	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
106	NMR characterization of a 264-residue hyperthermostable endo-Î²-1,3-glucanase. Biochemical and Biophysical Research Communications, 2010, 391, 370-375.	2.1	3
107	Identification of a Gatekeeper Residue That Prevents Dehydrogenases from Acting as Oxidases. Journal of Biological Chemistry, 2009, 284, 4392-4397.	3.4	83
108	Identification of a Novel Self-Sufficient Styrene Monooxygenase from Rhodococcus opacus 1CP. Journal of Bacteriology, 2009, 191, 4996-5009.	2.2	114

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109	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
110	Galactonolactone Dehydrogenase Requires a Redox-Sensitive Thiol for Optimal Production of Vitamin C. Plant Physiology, 2009, 150, 596-605.	4.8	58
111	Perspectives for on-site monitoring of progesterone. Trends in Biotechnology, 2009, 27, 652-660.	9.3	34
112	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
113	Functional assignment of Glu386 and Arg388 in the active site of <scp>l</scp>â€galactonoâ€Î³â€lactone dehydrogenase. FEBS Letters, 2009, 583, 3199-3203.	2.8	20
114	Correlated mutation analyses on superâ€family alignments reveal functionally important residues. Proteins: Structure, Function and Bioinformatics, 2009, 76, 608-616.	2.6	77
115	Picosecond Fluorescence Relaxation Spectroscopy of the Calcium-Discharged Photoproteins Aequorin and Obelin. Biochemistry, 2009, 48, 10486-10491.	2.5	28
116	Monomer Formation and Function of pâ€Hydroxybenzoate Hydroxylase in Reverse Micelles and in Dimethylsulfoxide/Water Mixtures. ChemBioChem, 2008, 9, 413-419.	2.6	9
117	<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
118	The growing VAO flavoprotein family. Archives of Biochemistry and Biophysics, 2008, 474, 292-301.	3.0	107
119	Shifted concentration dependency of EpRE- and XRE-mediated gene expression points at monofunctional EpRE-mediated induction by flavonoids at physiologically relevant concentrations. Toxicology in Vitro, 2008, 22, 921-926.	2.4	8
120	Activation of EpRE-mediated gene transcription by quercetin glucuronides depends on their deconjugation. Food and Chemical Toxicology, 2008, 46, 2128-2134.	3.6	25
121	Elucidation of the 4-Hydroxyacetophenone Catabolic Pathway in Pseudomonas fluorescens ACB. Journal of Bacteriology, 2008, 190, 5190-5198.	2.2	53
122	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
123	Novel peptides with tyrosinase inhibitory activity. Peptides, 2007, 28, 485-495.	2.4	154
124	Improvement of lipoxygenase inhibition by octapeptides. Peptides, 2007, 28, 2268-2275.	2.4	12
125	Flavoenzymes. Current Opinion in Chemical Biology, 2007, 11, 195-202.	6.1	240
126	Reconstitution of apoglucose oxidase with FAD conjugates for biosensoring of progesterone. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2007, 1774, 803-812.	2.3	5

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127	A low perfusion rate microreactor for continuous monitoring of enzyme characteristics: application to glucose oxidase. Analytical and Bioanalytical Chemistry, 2007, 389, 2029-2033.	3.7	5
128	Time-resolved fluorescence analysis of the mobile flavin cofactor in p-hydroxybenzoate hydroxylase. Journal of Chemical Sciences, 2007, 119, 123-133.	1.5	4
129	Occurrence and Biocatalytic Potential of Carbohydrate Oxidases. Advances in Applied Microbiology, 2006, 60, 17-54.	2.4	87
130	Flavoprotein monooxygenases, a diverse class of oxidative biocatalysts. Journal of Biotechnology, 2006, 124, 670-689.	3.8	611
131	Pro-Oxidant Activity of Flavonoids Induces EpRE-Mediated Gene Expression. Chemical Research in Toxicology, 2006, 19, 1499-1505.	3.3	185
132	Biochemical characterization of the major sorghum grain peroxidase. FEBS Journal, 2006, 273, 2293-2307.	4.7	33
133	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
134	Reversible resolution of flavin and pterin cofactors of His-tagged Escherichia coli DNA photolyase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 1454-1461.	2.3	12
135	Identification of Lipoxygenase Inhibitory Peptides from Î²-Casein by Using SPOT Synthesis. ChemBioChem, 2006, 7, 743-747.	2.6	4
136	Identification of Lipoxygenase Inhibitory Peptides from Î²-Casein by Using SPOT Synthesis. ChemBioChem, 2006, 7, 865-865.	2.6	0
137	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
138	Real-time Enzyme Dynamics Illustrated with Fluorescence Spectroscopy of p-Hydroxybenzoate Hydroxylase. Journal of Biological Chemistry, 2006, 281, 11074-11081.	3.4	21
139	Spectral and catalytic properties of aryl-alcohol oxidase, a fungal flavoenzyme acting on polyunsaturated alcohols. Biochemical Journal, 2005, 389, 731-738.	3.7	79
140	Generation of Taste through (Redox) Biocatalysis. , 2005, , 137-152.		0
141	A crystallographic study of Cys69Ala flavodoxin II fromAzotobacter vinelandii: Structural determinants of redox potential. Protein Science, 2005, 14, 2284-2295.	7.6	48
142	Human NAD(P)H:Quinone oxidoreductase inhibition by flavonoids in living cells. Free Radical Biology and Medicine, 2005, 39, 257-265.	2.9	22
143	A Study on p-Hydroxybenzoate Hydroxylase from Pseudomonas fluorescens. FEBS Journal, 2005, 128, 21-27.	0.2	43
144	Enzymatic Baeyer-Villiger Oxidation of Benzaldehydes. Advanced Synthesis and Catalysis, 2005, 347, 1027-1034.	4.3	39

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145	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
146	Last In, First Out. Journal of Biological Chemistry, 2005, 280, 7836-7844.	3.4	55
147	Coenzyme Binding during Catalysis Is Beneficial for the Stability of 4-Hydroxyacetophenone Monooxygenase. Journal of Biological Chemistry, 2005, 280, 32115-32121.	3.4	31
148	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
149	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
150	Laboratory-evolved Vanillyl-alcohol Oxidase Produces Natural Vanillin. Journal of Biological Chemistry, 2004, 279, 33492-33500.	3.4	49
151	Biocatalytic Potential ofp-Hydroxybenzoate Hydroxylase fromRhodococcus rhodnii 135 andRhodococcus opacus 557. Advanced Synthesis and Catalysis, 2004, 346, 367-375.	4.3	27
152	Horseradish Peroxidase-Catalyzed Cross-Linking of Feruloylated Arabinoxylans with Î²-Casein. Journal of Agricultural and Food Chemistry, 2004, 52, 6633-6639.	5.2	64
153	Covalent flavinylation enhances the oxidative power of vanillyl-alcohol oxidase. Journal of Molecular Catalysis B: Enzymatic, 2003, 21, 43-46.	1.8	6
154	Baeyerâ€“Villiger Monooxygenases, an Emerging Family of Flavin-Dependent Biocatalysts. Advanced Synthesis and Catalysis, 2003, 345, 667-678.	4.3	250
155	Deflavination and reconstitution of flavoproteins. FEBS Journal, 2003, 270, 4227-4242.	0.2	110
156	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
157	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
158	Conversion of 2-Fluoromuconate to cis -Dienelactone by Purified Enzymes of Rhodococcus opacus 1cp. Applied and Environmental Microbiology, 2003, 69, 5636-5642.	3.1	12
159	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
160	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
161	Cofactor-dependent Assembly of the Flavoenzyme Vanillyl-alcohol Oxidase. Journal of Biological Chemistry, 2002, 277, 36425-36432.	3.4	31
162	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

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163	Redox Properties of Vanillyl-Alcohol Oxidase. Methods in Enzymology, 2002, 353, 177-186.	1.0	12
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