

Angel T Martinez

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

311
papers

19,479
citations

74
h-index

125
g-index

316
ext. papers

21,387
ext. citations

5.7
avg, IF

6.65
L-index

#	Paper	IF	Citations
311	Enzymatic Epoxidation of Long-Chain Terminal Alkenes by Fungal Peroxygenases.. <i>Antioxidants</i> , 2022 , 11,	7.1	1
310	Structural Characterization of Two Short Unspecific Peroxygenases: Two Different Dimeric Arrangements. <i>Antioxidants</i> , 2022 , 11, 891	7.1	0
309	Engineering <i>Collariella virescens</i> Peroxygenase for Epoxides Production from Vegetable Oil. <i>Antioxidants</i> , 2022 , 11, 915	7.1	0
308	Regioselective and Stereoselective Epoxidation of n-3 and n-6 Fatty Acids by Fungal Peroxygenases.. <i>Antioxidants</i> , 2021 , 10,	7.1	4
307	New Insights on Structures Forming the Lignin-Like Fractions of Ancestral Plants. <i>Frontiers in Plant Science</i> , 2021 , 12, 740923	6.2	1
306	Comparing Ligninolytic Capabilities of Bacterial and Fungal Dye-Decolorizing Peroxidases and Class-II Peroxidase-Catalases. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	8
305	A Multiomic Approach to Understand How Transforms Non-Woody Lignocellulosic Material. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021 , 7,	5.6	3
304	Genomic Analysis Enlightens Agaricales Lifestyle Evolution and Increasing Peroxidase Diversity. <i>Molecular Biology and Evolution</i> , 2021 , 38, 1428-1446	8.3	22
303	Early-stage sustainability assessment of enzyme production in the framework of lignocellulosic biorefinery. <i>Journal of Cleaner Production</i> , 2021 , 285, 125461	10.3	6
302	Gene family expansions and transcriptome signatures uncover fungal adaptations to wood decay. <i>Environmental Microbiology</i> , 2021 , 23, 5716-5732	5.2	15
301	Agaricales Mushroom Lignin Peroxidase: From Structure-Function to Degradative Capabilities. <i>Antioxidants</i> , 2021 , 10,	7.1	3
300	Optimizing operational parameters for the enzymatic production of furandicarboxylic acid building block. <i>Microbial Cell Factories</i> , 2021 , 20, 180	6.4	0
299	Advances in enzymatic oxyfunctionalization of aliphatic compounds. <i>Biotechnology Advances</i> , 2021 , 51, 107703	17.8	14
298	Conserved white-rot enzymatic mechanism for wood decay in the Basidiomycota genus <i>Pycnoporus</i> . <i>DNA Research</i> , 2020 , 27,	4.5	13
297	Screening and Evaluation of New Hydroxymethylfurfural Oxidases for Furandicarboxylic Acid Production. <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8	9
296	Genome sequencing of <i>Rigidoporus microporus</i> provides insights on genes important for wood decay, latex tolerance and interspecific fungal interactions. <i>Scientific Reports</i> , 2020 , 10, 5250	4.9	7
295	Lignin degradation and detoxification of eucalyptus wastes by on-site manufacturing fungal enzymes to enhance second-generation ethanol yield. <i>Applied Energy</i> , 2020 , 262, 114493	10.7	34

294	Two New Unspecific Peroxygenases from Heterologous Expression of Fungal Genes in Escherichia coli. <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8	26
293	Reaction mechanisms and applications of aryl-alcohol oxidase. <i>The Enzymes</i> , 2020 , 47, 167-192	2.3	6
292	Sequential oxidation of 5-hydroxymethylfurfural to furan-2,5-dicarboxylic acid by an evolved aryl-alcohol oxidase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020 , 1868, 140293	4	18
291	Fatty acid epoxidation by Collariella virescens peroxygenase and heme-channel variants. <i>Catalysis Science and Technology</i> , 2020 , 10, 717-725	5.5	19
290	Fatty-Acid Oxygenation by Fungal Peroxygenases: From Computational Simulations to Preparative Regio- and Stereoselective Epoxidation. <i>ACS Catalysis</i> , 2020 , 10, 13584-13595	13.1	13
289	Deciphering the Unique Structure and Acylation Pattern of Posidonia oceanica Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 12521-12533	8.3	11
288	Selective Oxygenation of Ionones and Damascones by Fungal Peroxygenases. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 5375-5383	5.7	5
287	High Epoxidation Yields of Vegetable Oil Hydrolyzates and Methyl Esters by Selected Fungal Peroxygenases. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 605854	5.8	8
286	Engineering of a fungal laccase to develop a robust, versatile and highly-expressed biocatalyst for sustainable chemistry. <i>Green Chemistry</i> , 2019 , 21, 5374-5385	10	25
285	Structural and biochemical insights into an engineered high-redox potential laccase overproduced in Aspergillus. <i>International Journal of Biological Macromolecules</i> , 2019 , 141, 855-867	7.9	9
284	Complete oxidation of hydroxymethylfurfural to furandicarboxylic acid by aryl-alcohol oxidase. <i>Biotechnology for Biofuels</i> , 2019 , 12, 217	7.8	31
283	Switching the substrate preference of fungal aryl-alcohol oxidase: towards stereoselective oxidation of secondary benzyl alcohols. <i>Catalysis Science and Technology</i> , 2019 , 9, 833-841	5.5	13
282	Modulating Fatty Acid Epoxidation vs Hydroxylation in a Fungal Peroxygenase. <i>ACS Catalysis</i> , 2019 , 9, 6234-6242	13.1	30
281	Different fungal peroxidases oxidize nitrophenols at a surface catalytic tryptophan. <i>Archives of Biochemistry and Biophysics</i> , 2019 , 668, 23-28	4.1	5
280	Structure-Guided Evolution of Aryl Alcohol Oxidase from Pleurotus eryngii for the Selective Oxidation of Secondary Benzyl Alcohols. <i>Advanced Synthesis and Catalysis</i> , 2019 , 361, 2514	5.6	15
279	Selective synthesis of 4-hydroxyisophorone and 4-ketoisophorone by fungal peroxygenases. <i>Catalysis Science and Technology</i> , 2019 , 9, 1398-1405	5.5	21
278	Peroxidase evolution in white-rot fungi follows wood lignin evolution in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 17900-17905	11.5	26
277	A Sustainable Approach of Enzymatic Grafting on Eucalyptus globulus Wood by Laccase from the Newly Isolated White-Rot Basidiomycete Marasmiellus palmivorus VE111. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 13418-13424	8.3	12

276	Binding and Catalytic Mechanisms of Veratryl Alcohol Oxidation by Lignin Peroxidase: A Theoretical and Experimental Study. <i>Computational and Structural Biotechnology Journal</i> , 2019 , 17, 1066-1074	6.8	16
275	Increase of Redox Potential during the Evolution of Enzymes Degrading Recalcitrant Lignin. <i>Chemistry - A European Journal</i> , 2019 , 25, 2708-2712	4.8	14
274	Stepwise Hydrogen Atom and Proton Transfers in Dioxygen Reduction by Aryl-Alcohol Oxidase. <i>Biochemistry</i> , 2018 , 57, 1790-1797	3.2	9
273	Fungal lignin peroxidase does not produce the veratryl alcohol cation radical as a diffusible ligninolytic oxidant. <i>Journal of Biological Chemistry</i> , 2018 , 293, 4702-4712	5.4	18
272	Self-sustained enzymatic cascade for the production of 2,5-furandicarboxylic acid from 5-methoxymethylfurfural. <i>Biotechnology for Biofuels</i> , 2018 , 11, 86	7.8	35
271	Selective synthesis of the resveratrol analogue 4,4'-dihydroxy-trans-stilbene and stilbenoids modification by fungal peroxygenases. <i>Catalysis Science and Technology</i> , 2018 , 8, 2394-2401	5.5	21
270	Description of a Non-Canonical Mn(II)-Oxidation Site in Peroxidases. <i>ACS Catalysis</i> , 2018 , 8, 8386-8395	13.1	12
269	Selective Epoxidation of Fatty Acids and Fatty Acid Methyl Esters by Fungal Peroxygenases. <i>ChemCatChem</i> , 2018 , 10, 3964-3968	5.2	19
268	Evolutionary convergence in lignin-degrading enzymes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6428-6433	11.5	38
267	A commercial laccase-mediator system to delignify and improve saccharification of the fast-growing <i>Paulownia fortunei</i> (Seem.) Hemsl.. <i>Holzforschung</i> , 2018 , 73, 45-54	2	11
266	A highly stable laccase obtained by swapping the second cupredoxin domain. <i>Scientific Reports</i> , 2018 , 8, 15669	4.9	24
265	Multiple implications of an active site phenylalanine in the catalysis of aryl-alcohol oxidase. <i>Scientific Reports</i> , 2018 , 8, 8121	4.9	11
264	Simulating Substrate Recognition and Oxidation in Laccases: From Description to Design. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 1462-1467	6.4	18
263	Mapping the Long-Range Electron Transfer Route in Ligninolytic Peroxidases. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 3946-3954	3.4	18
262	Oxidoreductases on their way to industrial biotransformations. <i>Biotechnology Advances</i> , 2017 , 35, 815-831	11.8	150
261	Experimental recreation of the evolution of lignin-degrading enzymes from the Jurassic to date. <i>Biotechnology for Biofuels</i> , 2017 , 10, 67	7.8	28
260	Fatty Acid Chain Shortening by a Fungal Peroxygenase. <i>Chemistry - A European Journal</i> , 2017 , 23, 16985-16989	16.9	28
259	Protein dynamics promote hydride tunnelling in substrate oxidation by aryl-alcohol oxidase. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 28666-28675	3.6	16

258	Draft genome sequence of a monokaryotic model brown-rot fungus SB12. <i>Genomics Data</i> , 2017 , 14, 21-23		9
257	Delignification and Saccharification Enhancement of Sugarcane Byproducts by a Laccase-Based Pretreatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 7145-7154	8.3	33
256	From Alkanes to Carboxylic Acids: Terminal Oxygenation by a Fungal Peroxygenase. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12248-51	16.4	33
255	From Alkanes to Carboxylic Acids: Terminal Oxygenation by a Fungal Peroxygenase. <i>Angewandte Chemie</i> , 2016 , 128, 12436-12439	3.6	8
254	Lignin depolymerization by fungal secretomes and a microbial sink. <i>Green Chemistry</i> , 2016 , 18, 6046-6062		62
253	Role of surface tryptophan for peroxidase oxidation of nonphenolic lignin. <i>Biotechnology for Biofuels</i> , 2016 , 9, 198	7.8	29
252	Fungal Aryl-Alcohol Oxidase in Lignocellulose Degradation and Bioconversion. <i>Biofuel and Biorefinery Technologies</i> , 2016 , 301-322	1	8
251	Laccase-Mediator Pretreatment of Wheat Straw Degrades Lignin and Improves Saccharification. <i>Bioenergy Research</i> , 2016 , 9, 917-930	3.1	37
250	Alkaline versatile peroxidase by directed evolution. <i>Catalysis Science and Technology</i> , 2016 , 6, 6625-6636	5.5	17
249	Re-designing the substrate binding pocket of laccase for enhanced oxidation of sinapic acid. <i>Catalysis Science and Technology</i> , 2016 , 6, 3900-3910	5.5	40
248	Molecular determinants for selective C25-hydroxylation of vitamins D2 and D3 by fungal peroxygenases. <i>Catalysis Science and Technology</i> , 2016 , 6, 288-295	5.5	27
247	Rational Enzyme Engineering Through Biophysical and Biochemical Modeling. <i>ACS Catalysis</i> , 2016 , 6, 1624-1629	13.1	29
246	Advanced Synthesis of Conductive Polyaniline Using Laccase as Biocatalyst. <i>PLoS ONE</i> , 2016 , 11, e0164958	3.7	28
245	Computer-Aided Laccase Engineering: Toward Biological Oxidation of Arylamines. <i>ACS Catalysis</i> , 2016 , 6, 5415-5423	13.1	42
244	Unveiling the basis of alkaline stability of an evolved versatile peroxidase. <i>Biochemical Journal</i> , 2016 , 473, 1917-28	3.8	11
243	Asymmetric sulfoxidation by engineering the heme pocket of a dye-decolorizing peroxidase. <i>Catalysis Science and Technology</i> , 2016 , 6, 6277-6285	5.5	15
242	CHEMISTRY. How to break down crystalline cellulose. <i>Science</i> , 2016 , 352, 1050-1	33.3	29
241	A secretomic view of woody and nonwoody lignocellulose degradation by <i>Pleurotus ostreatus</i> . <i>Biotechnology for Biofuels</i> , 2016 , 9, 49	7.8	61

240	Lignin-carbohydrate complexes from sisal (<i>Agave sisalana</i>) and abaca (<i>Musa textilis</i>): chemical composition and structural modifications during the isolation process. <i>Planta</i> , 2016 , 243, 1143-58	4.7	29
239	Focused Directed Evolution of Aryl-Alcohol Oxidase in <i>Saccharomyces cerevisiae</i> by Using Chimeric Signal Peptides. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 6451-62	4.8	31
238	Redox-Active Sites in <i>Auricularia auricula-judae</i> Dye-Decolorizing Peroxidase and Several Directed Variants: A Multifrequency EPR Study. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 13583-92	3.4	11
237	Description of the first fungal dye-decolorizing peroxidase oxidizing manganese(II). <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 8927-42	5.7	51
236	Catalytic surface radical in dye-decolorizing peroxidase: a computational, spectroscopic and site-directed mutagenesis study. <i>Biochemical Journal</i> , 2015 , 466, 253-62	3.8	68
235	Basidiomycete DyPs: Genomic diversity, structural-functional aspects, reaction mechanism and environmental significance. <i>Archives of Biochemistry and Biophysics</i> , 2015 , 574, 66-74	4.1	56
234	Insights into Laccase Engineering from Molecular Simulations: Toward a Binding-Focused Strategy. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1447-53	6.4	48
233	Differences in the chemical structure of the lignins from sugarcane bagasse and straw. <i>Biomass and Bioenergy</i> , 2015 , 81, 322-338	5.3	153
232	A survey of genes encoding H ₂ O ₂ -producing GMC oxidoreductases in 10 Polyporales genomes. <i>Mycologia</i> , 2015 , 107, 1105-19	2.4	43
231	Demonstration of Lignin-to-Peroxidase Direct Electron Transfer: A TRANSIENT-STATE KINETICS, DIRECTED MUTAGENESIS, EPR, AND NMR STUDY. <i>Journal of Biological Chemistry</i> , 2015 , 290, 23201-13	5.4	30
230	In-Depth 2D NMR Study of Lignin Modification During Pretreatment of Eucalyptus Wood with Laccase and Mediators. <i>Bioenergy Research</i> , 2015 , 8, 211-230	3.1	30
229	Enhanced degradation of softwood versus hardwood by the white-rot fungus <i>Pycnoporus coccineus</i> . <i>Biotechnology for Biofuels</i> , 2015 , 8, 216	7.8	52
228	Aromatic stacking interactions govern catalysis in aryl-alcohol oxidase. <i>FEBS Journal</i> , 2015 , 282, 3091-106	6.7	17
227	Improving the oxidative stability of a high redox potential fungal peroxidase by rational design. <i>PLoS ONE</i> , 2015 , 10, e0124750	3.7	26
226	Steroid hydroxylation by basidiomycete peroxygenases: a combined experimental and computational study. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 4130-42	4.8	27
225	Isolation and structural characterization of the milled wood lignin, dioxane lignin, and cellulolytic lignin preparations from brewer's spent grain. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 603-13	5.7	92
224	Regioselective Hydroxylation in the Production of 25-Hydroxyvitamin D by <i>Coprinopsis cinerea</i> Peroxygenase. <i>ChemCatChem</i> , 2015 , 7, 283-290	5.2	18
223	5-hydroxymethylfurfural conversion by fungal aryl-alcohol oxidase and unspecific peroxygenase. <i>FEBS Journal</i> , 2015 , 282, 3218-29	5.7	105

222	Improving the pH-stability of Versatile Peroxidase by Comparative Structural Analysis with a Naturally-Stable Manganese Peroxidase. <i>PLoS ONE</i> , 2015 , 10, e0140984	3.7	34
221	Analysis of lignin-carbohydrate and lignin-lignin linkages after hydrolase treatment of xylan-lignin, glucomannan-lignin and glucan-lignin complexes from spruce wood. <i>Planta</i> , 2014 , 239, 1079-90	4.7	65
220	Structural Determinants of Oxidative Stabilization in an Evolved Versatile Peroxidase. <i>ACS Catalysis</i> , 2014 , 4, 3891-3901	13.1	28
219	Heterologous expression and physicochemical characterization of a fungal dye-decolorizing peroxidase from <i>Auricularia auricula-judae</i> . <i>Protein Expression and Purification</i> , 2014 , 103, 28-37	2	30
218	Search, engineering, and applications of new oxidative biocatalysts. <i>Biofuels, Bioproducts and Biorefining</i> , 2014 , 8, 819-835	5.3	15
217	The genome of the white-rot fungus <i>Pycnoporus cinnabarinus</i> : a basidiomycete model with a versatile arsenal for lignocellulosic biomass breakdown. <i>BMC Genomics</i> , 2014 , 15, 486	4.5	62
216	Enzymatic degradation of Elephant grass (<i>Pennisetum purpureum</i>) stems: influence of the pith and bark in the total hydrolysis. <i>Bioresource Technology</i> , 2014 , 167, 469-75	11	17
215	Directed Evolution of Ligninolytic Oxidoreductases: from Functional Expression to Stabilization and Beyond 2014 , 1-22		8
214	Wood and humus decay strategies by white-rot basidiomycetes correlate with two different dye decolorization and enzyme secretion patterns on agar plates. <i>Fungal Genetics and Biology</i> , 2014 , 72, 106-114	3.9	15
213	Ligninolytic peroxidase gene expression by <i>Pleurotus ostreatus</i> : differential regulation in lignocellulose medium and effect of temperature and pH. <i>Fungal Genetics and Biology</i> , 2014 , 72, 150-163	3.9	54
212	Pretreatment with laccase and a phenolic mediator degrades lignin and enhances saccharification of Eucalyptus feedstock. <i>Biotechnology for Biofuels</i> , 2014 , 7, 6	7.8	131
211	Analysis of the <i>Phlebiopsis gigantea</i> genome, transcriptome and secretome provides insight into its pioneer colonization strategies of wood. <i>PLoS Genetics</i> , 2014 , 10, e1004759	6	67
210	Engineering a fungal peroxidase that degrades lignin at very acidic pH. <i>Biotechnology for Biofuels</i> , 2014 , 7, 114	7.8	38
209	Ligninolytic peroxidase genes in the oyster mushroom genome: heterologous expression, molecular structure, catalytic and stability properties, and lignin-degrading ability. <i>Biotechnology for Biofuels</i> , 2014 , 7, 2	7.8	82
208	Structural implications of the C-terminal tail in the catalytic and stability properties of manganese peroxidases from ligninolytic fungi. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014 , 70, 3253-65		24
207	Structural insights on laccase biografting of ferulic acid onto lignocellulosic fibers. <i>Biochemical Engineering Journal</i> , 2014 , 86, 16-23	4.2	15
206	Understanding lignin biodegradation for the improved utilization of plant biomass in modern biorefineries. <i>Biofuels, Bioproducts and Biorefining</i> , 2014 , 8, 615-625	5.3	57
205	Lignin-degrading peroxidases in Polyporales: an evolutionary survey based on 10 sequenced genomes. <i>Mycologia</i> , 2013 , 105, 1428-44	2.4	104

204	Understanding pulp delignification by laccase-mediator systems through isolation and characterization of lignin-carbohydrate complexes. <i>Biomacromolecules</i> , 2013 , 14, 3073-80	6.9	35
203	Oxyfunctionalization of aliphatic compounds by a recombinant peroxygenase from <i>Coprinopsis cinerea</i> . <i>Biotechnology and Bioengineering</i> , 2013 , 110, 2323-32	4.9	62
202	Differential proteomic analysis of the secretome of <i>Irpex lacteus</i> and other white-rot fungi during wheat straw pretreatment. <i>Biotechnology for Biofuels</i> , 2013 , 6, 115	7.8	65
201	Sugar recoveries from wheat straw following treatments with the fungus <i>Irpex lacteus</i> . <i>Bioresource Technology</i> , 2013 , 131, 218-25	11	47
200	Structural characterization of lignin isolated from coconut (<i>Cocos nucifera</i>) coir fibers. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 2434-45	5.7	109
199	Versatile peroxidase as a valuable tool for generating new biomolecules by homogeneous and heterogeneous cross-linking. <i>Enzyme and Microbial Technology</i> , 2013 , 52, 303-11	3.8	26
198	Modification of the Lignin Structure during Alkaline Delignification of Eucalyptus Wood by Kraft, Soda-AQ, and Soda-O ₂ Cooking. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 15702-15712	3.9	55
197	Structural Modifications of Residual Lignins from Sisal and Flax Pulps during Soda-AQ Pulping and TCF/ECF Bleaching. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 4695-4703	3.9	11
196	Formation of a tyrosine adduct involved in lignin degradation by <i>Trametes cervina</i> lignin peroxidase: a novel peroxidase activation mechanism. <i>Biochemical Journal</i> , 2013 , 452, 575-84	3.8	20
195	Characterization of a novel dye-decolorizing peroxidase (DyP)-type enzyme from <i>Irpex lacteus</i> and its application in enzymatic hydrolysis of wheat straw. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 4316-24	4.8	102
194	Morphological characteristics and composition of lipophilic extractives and lignin in Brazilian woods from different eucalypt hybrids. <i>Industrial Crops and Products</i> , 2012 , 36, 572-583	5.9	29
193	Stereoselective hydride transfer by aryl-alcohol oxidase, a member of the GMC superfamily. <i>ChemBioChem</i> , 2012 , 13, 427-35	3.8	42
192	Origin of the acetylated structures present in white birch (<i>Betula pendula</i> Roth) milled wood lignin. <i>Wood Science and Technology</i> , 2012 , 46, 459-471	2.5	16
191	Fungal aryl-alcohol oxidase: a peroxide-producing flavoenzyme involved in lignin degradation. <i>Applied Microbiology and Biotechnology</i> , 2012 , 93, 1395-410	5.7	123
190	Enzymatic deinking of secondary fibers: cellulases/hemicellulases versus laccase-mediator system. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012 , 39, 1-9	4.2	52
189	Role of active site histidines in the two half-reactions of the aryl-alcohol oxidase catalytic cycle. <i>Biochemistry</i> , 2012 , 51, 6595-608	3.2	46
188	Lignin-degrading peroxidases from genome of selective ligninolytic fungus <i>Ceriporiopsis subvermispora</i> . <i>Journal of Biological Chemistry</i> , 2012 , 287, 16903-16	5.4	68
187	Biodeinking of flexographic inks by fungal laccases using synthetic and natural mediators. <i>Biochemical Engineering Journal</i> , 2012 , 67, 97-103	4.2	34

186	Demonstration of laccase-based removal of lignin from wood and non-wood plant feedstocks. <i>Bioresource Technology</i> , 2012 , 119, 114-22	11	116
185	Structural characterization of wheat straw lignin as revealed by analytical pyrolysis, 2D-NMR, and reductive cleavage methods. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 5922-35	5.7	522
184	Structural characterization of the lignin in the cortex and pith of elephant grass (<i>Pennisetum purpureum</i>) stems. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 3619-34	5.7	150
183	Engineering platforms for directed evolution of Laccase from <i>Pycnoporus cinnabarinus</i> . <i>Applied and Environmental Microbiology</i> , 2012 , 78, 1370-84	4.8	101
182	Comparative genomics of <i>Ceriporiopsis subvermispورا</i> and <i>Phanerochaete chrysosporium</i> provide insight into selective ligninolysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 5458-63	11.5	225
181	The Paleozoic origin of enzymatic lignin decomposition reconstructed from 31 fungal genomes. <i>Science</i> , 2012 , 336, 1715-9	33.3	1129
180	Cloning, overexpression in <i>Escherichia coli</i> , and characterization of a thermostable fungal acetylxylylan esterase from <i>Talaromyces emersonii</i> . <i>Applied and Environmental Microbiology</i> , 2012 , 78, 3759-62	4.8	7
179	Directed evolution of a temperature-, peroxide- and alkaline pH-tolerant versatile peroxidase. <i>Biochemical Journal</i> , 2012 , 441, 487-98	3.8	89
178	Correction for Fernandez-Fueyo et al., Comparative genomics of <i>Ceriporiopsis subvermispورا</i> and <i>Phanerochaete chrysosporium</i> provide insight into selective ligninolysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 8352-8352	11.5	5
177	Two oxidation sites for low redox potential substrates: a directed mutagenesis, kinetic, and crystallographic study on <i>Pleurotus eryngii</i> versatile peroxidase. <i>Journal of Biological Chemistry</i> , 2012 , 287, 41053-67	5.4	58
176	Lignin-degrading peroxidases from genome of selective ligninolytic fungus <i>Ceriporiopsis subvermispورا</i> . <i>Journal of Biological Chemistry</i> , 2012 , 287, 41744	5.4	2
175	Structural characterization of guaiacyl-rich lignins in flax (<i>Linum usitatissimum</i>) fibers and shives. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 11088-99	5.7	77
174	Regioselective oxygenation of fatty acids, fatty alcohols and other aliphatic compounds by a basidiomycete heme-thiolate peroxidase. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 514, 33-43	4.1	62
173	<i>Pleurotus ostreatus</i> heme peroxidases: an in silico analysis from the genome sequence to the enzyme molecular structure. <i>Comptes Rendus - Biologies</i> , 2011 , 334, 795-805	1.4	54
172	Modulating O ₂ reactivity in a fungal flavoenzyme: involvement of aryl-alcohol oxidase Phe-501 contiguous to catalytic histidine. <i>Journal of Biological Chemistry</i> , 2011 , 286, 41105-14	5.4	39
171	Substrate diffusion and oxidation in GMC oxidoreductases: an experimental and computational study on fungal aryl-alcohol oxidase. <i>Biochemical Journal</i> , 2011 , 436, 341-50	3.8	56
170	Selective lignin and polysaccharide removal in natural fungal decay of wood as evidenced by in situ structural analyses. <i>Environmental Microbiology</i> , 2011 , 13, 96-107	5.2	85
169	Influence of organic co-solvents on the activity and substrate specificity of feruloyl esterases. <i>Bioresource Technology</i> , 2011 , 102, 4962-7	11	41

168	Fungal pretreatment: An alternative in second-generation ethanol from wheat straw. <i>Bioresource Technology</i> , 2011 , 102, 7500-6	11	241
167	Towards industrially-feasible delignification and pitch removal by treating paper pulp with <i>Myceliophthora thermophila</i> laccase and a phenolic mediator. <i>Bioresource Technology</i> , 2011 , 102, 6717-22 ¹¹		69
166	EPR parameters of amino acid radicals in <i>P. eryngii</i> versatile peroxidase and its W164Y variant computed at the QM/MM level. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 5078-98	3.6	26
165	Crystallographic, kinetic, and spectroscopic study of the first ligninolytic peroxidase presenting a catalytic tyrosine. <i>Journal of Biological Chemistry</i> , 2011 , 286, 15525-34	5.4	43
164	Fungi and Their Enzymes for Pitch Control in the Pulp and Paper Industry 2011 , 357-377		2
163	Lignin composition and structure in young versus adult <i>Eucalyptus globulus</i> plants. <i>Plant Physiology</i> , 2011 , 155, 667-82	6.6	212
162	Kinetic and chemical characterization of aldehyde oxidation by fungal aryl-alcohol oxidase. <i>Biochemical Journal</i> , 2010 , 425, 585-93	3.8	62
161	Polymerization of liginosulfonates by the laccase-HBT (1-hydroxybenzotriazole) system improves dispersibility. <i>Bioresource Technology</i> , 2010 , 101, 5054-62	11	85
160	Enzymatic grafting of simple phenols on flax and sisal pulp fibres using laccases. <i>Bioresource Technology</i> , 2010 , 101, 8211-6	11	79
159	Delignification of eucalypt kraft pulp with manganese-substituted polyoxometalate assisted by fungal versatile peroxidase. <i>Bioresource Technology</i> , 2010 , 101, 5935-40	11	14
158	Evolving thermostability in mutant libraries of ligninolytic oxidoreductases expressed in yeast. <i>Microbial Cell Factories</i> , 2010 , 9, 17	6.4	56
157	Structural and Functional Features of Peroxidases with a Potential as Industrial Biocatalysts 2010 , 37-59		17
156	Induction of extracellular hydroxyl radical production by white-rot fungi through quinone redox cycling. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 3944-53	4.8	116
155	Protein radicals in fungal versatile peroxidase: catalytic tryptophan radical in both compound I and compound II and studies on W164Y, W164H, and W164S variants. <i>Journal of Biological Chemistry</i> , 2009 , 284, 7986-94	5.4	49
154	Enhancing the production of hydroxyl radicals by <i>Pleurotus eryngii</i> via quinone redox cycling for pollutant removal. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 3954-62	4.8	52
153	Sterols and lignin in <i>Eucalyptus globulus</i> Labill. wood: Spatial distribution and fungal removal as revealed by microscopy and chemical analyses. <i>Holzforschung</i> , 2009 , 63,	2	11
152	HSQC-NMR analysis of lignin in woody (<i>Eucalyptus globulus</i> and <i>Picea abies</i>) and non-woody (<i>Agave sisalana</i>) ball-milled plant materials at the gel state 10th EWLP, Stockholm, Sweden, August 25 th 2008. <i>Holzforschung</i> , 2009 , 63,	2	81
151	Aryl-alcohol oxidase involved in lignin degradation: a mechanistic study based on steady and pre-steady state kinetics and primary and solvent isotope effects with two alcohol substrates. <i>Journal of Biological Chemistry</i> , 2009 , 284, 24840-7	5.4	48

150	Substrate oxidation sites in versatile peroxidase and other basidiomycete peroxidases. <i>Journal of Experimental Botany</i> , 2009 , 60, 441-52	7	206
149	Microbial degradation of lignin: how a bulky recalcitrant polymer is efficiently recycled in nature and how we can take advantage of this. <i>Microbial Biotechnology</i> , 2009 , 2, 164-77	6.3	347
148	Isolation and structural characterization of the milled-wood lignin from Paulownia fortunei wood. <i>Industrial Crops and Products</i> , 2009 , 30, 137-143	5.9	114
147	Effect of culture temperature on the heterologous expression of Pleurotus eryngii versatile peroxidase in Aspergillus hosts. <i>Bioprocess and Biosystems Engineering</i> , 2009 , 32, 129-34	3.7	25
146	Isolation and selection of novel basidiomycetes for decolorization of recalcitrant dyes. <i>Folia Microbiologica</i> , 2009 , 54, 59-66	2.8	19
145	Microbial and enzymatic control of pitch in the pulp and paper industry. <i>Applied Microbiology and Biotechnology</i> , 2009 , 82, 1005-18	5.7	82
144	Novel structural features in the GMC family of oxidoreductases revealed by the crystal structure of fungal aryl-alcohol oxidase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2009 , 65, 1196-205		60
143	Influence of operation conditions on laccase-mediator removal of sterols from eucalypt pulp. <i>Process Biochemistry</i> , 2009 , 44, 1032-1038	4.8	17
142	Enzymatic delignification of plant cell wall: from nature to mill. <i>Current Opinion in Biotechnology</i> , 2009 , 20, 348-57	11.4	244
141	Study of a sterol esterase secreted by Ophiostoma piceae: sequence, model and biochemical properties. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009 , 1794, 1099-106	4	15
140	Laccase detoxification of steam-exploded wheat straw for second generation bioethanol. <i>Bioresource Technology</i> , 2009 , 100, 6378-84	11	161
139	New oxidase from Bjerkandera arthroconidial anamorph that oxidizes both phenolic and nonphenolic benzyl alcohols. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009 , 1794, 689-97 ⁴		32
138	Genome, transcriptome, and secretome analysis of wood decay fungus Postia placenta supports unique mechanisms of lignocellulose conversion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 1954-9	11.5	479
137	Syringyl-type simple plant phenolics as mediating oxidants in laccase catalyzed degradation of lignocellulosic materials: Model compound studies 10th EWLP, Stockholm, Sweden, August 25 th , 2008. <i>Holzforschung</i> , 2009 , 63,	2	18
136	Structural characterization of the lignin from jute (Corchorus capsularis) fibers. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 10271-81	5.7	138
135	Escherichia coli expression and in vitro activation of a unique ligninolytic peroxidase that has a catalytic tyrosine residue. <i>Protein Expression and Purification</i> , 2009 , 68, 208-14	2	28
134	Highly acylated (acetylated and/or p-coumaroylated) native lignins from diverse herbaceous plants. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 9525-34	5.7	140
133	Isolation of two laccase genes from the white-rot fungus Pleurotus eryngii and heterologous expression of the pel3 encoded protein. <i>Journal of Biotechnology</i> , 2008 , 134, 9-19	3.7	46

132	Site-directed mutagenesis of the catalytic tryptophan environment in <i>Pleurotus eryngii</i> versatile peroxidase. <i>Biochemistry</i> , 2008 , 47, 1685-95	3.2	62
131	P-hydroxycinnamic acids as natural mediators for laccase oxidation of recalcitrant compounds. <i>Environmental Science & Technology</i> , 2008 , 42, 6703-9	10.3	83
130	Structural characterization of milled wood lignins from different eucalypt species. <i>Holzforschung</i> , 2008 , 62,	2	125
129	Bioelectrochemical investigations of aryl-alcohol oxidase from <i>Pleurotus eryngii</i> . <i>Journal of Electroanalytical Chemistry</i> , 2008 , 618, 83-86	4.1	7
128	Oxidative degradation of model lipids representative for main paper pulp lipophilic extractives by the laccase-mediator system. <i>Applied Microbiology and Biotechnology</i> , 2008 , 80, 211-22	5.7	29
127	Monolignol acylation and lignin structure in some nonwoody plants: a 2D NMR study. <i>Phytochemistry</i> , 2008 , 69, 2831-43	4	183
126	Manganese oxidation site in <i>Pleurotus eryngii</i> versatile peroxidase: a site-directed mutagenesis, kinetic, and crystallographic study. <i>Biochemistry</i> , 2007 , 46, 66-77	3.2	85
125	Transformation of polycyclic aromatic hydrocarbons by laccase is strongly enhanced by phenolic compounds present in soil. <i>Environmental Science & Technology</i> , 2007 , 41, 2964-71	10.3	131
124	Removal of lipophilic extractives from paper pulp by laccase and lignin-derived phenols as natural mediators. <i>Environmental Science & Technology</i> , 2007 , 41, 4124-9	10.3	86
123	Lignin modification during <i>Eucalyptus globulus</i> kraft pulping followed by totally chlorine-free bleaching: a two-dimensional nuclear magnetic resonance, Fourier transform infrared, and pyrolysis-gas chromatography/mass spectrometry study. <i>Journal of Agricultural and Food Chemistry</i> , 2007 , 55, 3477-90	5.7	106
122	Occurrence of naturally acetylated lignin units. <i>Journal of Agricultural and Food Chemistry</i> , 2007 , 55, 5461-8	5.8	145
121	Paper pulp delignification using laccase and natural mediators. <i>Enzyme and Microbial Technology</i> , 2007 , 40, 1264-1271	3.8	206
120	Composition of non-woody plant lignins and cinnamic acids by Py-GC/MS, Py/TMAH and FT-IR. <i>Journal of Analytical and Applied Pyrolysis</i> , 2007 , 79, 39-46	6	147
119	Presence of 5-hydroxyguaiacyl units as native lignin constituents in plants as seen by Py-GC/MS. <i>Journal of Analytical and Applied Pyrolysis</i> , 2007 , 79, 33-38	6	17
118	An anamorph of the white-rot fungus <i>Bjerkandera adusta</i> capable of colonizing and degrading compact disc components. <i>FEMS Microbiology Letters</i> , 2007 , 275, 122-9	2.9	18
117	Gene cloning, heterologous expression, in vitro reconstitution and catalytic properties of a versatile peroxidase. <i>Biocatalysis and Biotransformation</i> , 2007 , 25, 276-285	2.5	9
116	Immobilization of <i>Pycnoporus coccineus</i> laccase on Eupergit C: Stabilization and treatment of olive oil mill wastewaters. <i>Biocatalysis and Biotransformation</i> , 2007 , 25, 130-134	2.5	41
115	Microscopy studies reveal delignification and sterol removal from eucalypt kraft pulps by laccase. <i>Biocatalysis and Biotransformation</i> , 2007 , 25, 251-259	2.5	8

114	Structural modification of eucalypt pulp lignin in a totally chlorine-free bleaching sequence including a laccase-mediator stage. <i>Holzforschung</i> , 2007 , 61, 634-646	2	61
113	High Redox Potential Peroxidases 2007 , 477-488		8
112	Main lipophilic extractives in different paper pulp types can be removed using the laccase-mediator system. <i>Applied Microbiology and Biotechnology</i> , 2006 , 72, 845-51	5.7	46
111	Integrating laccase-mediator treatment into an industrial-type sequence for totally chlorine-free bleaching of eucalypt kraft pulp. <i>Journal of Chemical Technology and Biotechnology</i> , 2006 , 81, 1159-1165 ³⁻⁵		66
110	A tryptophan neutral radical in the oxidized state of versatile peroxidase from <i>Pleurotus eryngii</i> : a combined multifrequency EPR and density functional theory study. <i>Journal of Biological Chemistry</i> , 2006 , 281, 9517-26	5.4	83
109	Enzymatic removal of free and conjugated sterols forming pitch deposits in environmentally sound bleaching of eucalypt paper pulp. <i>Environmental Science & Technology</i> , 2006 , 40, 3416-22	10.3	41
108	In vitro activation, purification, and characterization of <i>Escherichia coli</i> expressed aryl-alcohol oxidase, a unique H ₂ O ₂ -producing enzyme. <i>Protein Expression and Purification</i> , 2006 , 45, 191-9	2	47
107	Site-directed mutagenesis of selected residues at the active site of aryl-alcohol oxidase, an H ₂ O ₂ -producing ligninolytic enzyme. <i>FEBS Journal</i> , 2006 , 273, 4878-88	5.7	25
106	Laccase purification and characterization from <i>Trametes trogii</i> isolated in Tunisia: decolorization of textile dyes by the purified enzyme. <i>Enzyme and Microbial Technology</i> , 2006 , 39, 141-148	3.8	171
105	Exploring the enzymatic parameters for optimal delignification of eucalypt pulp by laccase-mediator. <i>Enzyme and Microbial Technology</i> , 2006 , 39, 1319-1327	3.8	93
104	Comparison of different fungal enzymes for bleaching high-quality paper pulps. <i>Journal of Biotechnology</i> , 2005 , 115, 333-43	3.7	125
103	Versatile peroxidase oxidation of high redox potential aromatic compounds: site-directed mutagenesis, spectroscopic and crystallographic investigation of three long-range electron transfer pathways. <i>Journal of Molecular Biology</i> , 2005 , 354, 385-402	6.5	223
102	The two manganese peroxidases Pr-MnP2 and Pr-MnP3 of <i>Phlebia radiata</i> , a lignin-degrading basidiomycete, are phylogenetically and structurally divergent. <i>Fungal Genetics and Biology</i> , 2005 , 42, 403-19	3.9	73
101	Lignin-derived compounds as efficient laccase mediators for decolorization of different types of recalcitrant dyes. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 1775-84	4.8	447
100	Spectral and catalytic properties of aryl-alcohol oxidase, a fungal flavoenzyme acting on polyunsaturated alcohols. <i>Biochemical Journal</i> , 2005 , 389, 731-8	3.8	74
99	Determining the influence of eucalypt lignin composition in paper pulp yield using Py-GC/MS. <i>Journal of Analytical and Applied Pyrolysis</i> , 2005 , 74, 110-115	6	132
98	Role of <i>Pycnoporus coccineus</i> laccase in the degradation of aromatic compounds in olive oil mill wastewater. <i>Enzyme and Microbial Technology</i> , 2005 , 36, 478-486	3.8	111
97	Chemical characterization of residual lignins from eucalypt paper pulps. <i>Journal of Analytical and Applied Pyrolysis</i> , 2005 , 74, 116-122	6	62

96	Biodegradation of lignocellulosics: microbial, chemical, and enzymatic aspects of the fungal attack of lignin. <i>International Microbiology</i> , 2005 , 8, 195-204	3	607
95	Degradation of phenolic and non-phenolic aromatic pollutants by four <i>Pleurotus</i> species: the role of laccase and versatile peroxidase. <i>Soil Biology and Biochemistry</i> , 2004 , 36, 909-916	7.5	112
94	Effect of pH on the stability of <i>Pleurotus eryngii</i> versatile peroxidase during heterologous production in <i>Emericella nidulans</i> . <i>Bioprocess and Biosystems Engineering</i> , 2004 , 26, 287-93	3.7	25
93	Identifying acetylated lignin units in non-wood fibers using pyrolysis-gas chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2004 , 18, 1181-5	2.2	72
92	Isolation of high-purity residual lignins from eucalypt paper pulps by cellulase and proteinase treatments followed by solvent extraction. <i>Enzyme and Microbial Technology</i> , 2004 , 35, 173-181	3.8	33
91	Efficient bleaching of non-wood high-quality paper pulp using laccase-mediator system. <i>Enzyme and Microbial Technology</i> , 2004 , 35, 113-120	3.8	144
90	Hydrolysis of sterol esters by an esterase from <i>Ophiostoma piceae</i> : application to pitch control in pulping of <i>Eucalyptus globulus</i> wood. <i>International Journal of Biotechnology</i> , 2004 , 6, 367	0	11
89	NMR study of manganese(II) binding by a new versatile peroxidase from the white-rot fungus <i>Pleurotus eryngii</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2003 , 8, 751-60	3.7	21
88	Optimization of a Laccase-Mediator Stage for TCF Bleaching of Flax Pulp. <i>Holzforchung</i> , 2003 , 57, 513-519		53
87	Lignin attack during eucalypt wood decay by selected basidiomycetes: a Py-GC/MS study. <i>Journal of Analytical and Applied Pyrolysis</i> , 2002 , 64, 421-431	6	50
86	Identification of a novel series of alkylitaconic acids in wood cultures of <i>Ceriporiopsis subvermispora</i> by gas chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2002 , 16, 62-8	2.2	9
85	Molecular biology and structure-function of lignin-degrading heme peroxidases. <i>Enzyme and Microbial Technology</i> , 2002 , 30, 425-444	3.8	325
84	Expression of <i>Pleurotus eryngii</i> versatile peroxidase in <i>Escherichia coli</i> and optimisation of in vitro folding. <i>Enzyme and Microbial Technology</i> , 2002 , 30, 518-524	3.8	82
83	Production, isolation and characterization of a sterol esterase from <i>Ophiostoma piceae</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2002 , 1599, 28-35	4	43
82	Induction, isolation, and characterization of two laccases from the white rot basidiomycete <i>Coriopsis rigida</i> . <i>Applied and Environmental Microbiology</i> , 2002 , 68, 1534-40	4.8	95
81	Flax pulp bleaching and residual lignin modification by laccase-mediator systems* *This work has been funded by the Spanish project 2FD97-0896-C02-02 and the EU project QLK3-99-590.. <i>Progress in Biotechnology</i> , 2002 , 213-222		12
80	Production of new unsaturated lipids during wood decay by ligninolytic basidiomycetes. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 1344-50	4.8	56
79	Fungal bioturbation paths in a compact disk. <i>Die Naturwissenschaften</i> , 2001 , 88, 351-4	2	12

78	Compositional changes of wheat lignin by a fungal peroxidase analyzed by pyrolysis-GC-MS. <i>Journal of Analytical and Applied Pyrolysis</i> , 2001 , 58-59, 413-423	6	22
77	Studies on wheat lignin degradation by <i>Pleurotus</i> species using analytical pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2001 , 58-59, 401-411	6	55
76	Identification of residual lignin markers in eucalypt kraft pulps by PyGC/MS. <i>Journal of Analytical and Applied Pyrolysis</i> , 2001 , 58-59, 425-439	6	69
75	PyGC/MS study of <i>Eucalyptus globulus</i> wood treated with different fungi. <i>Journal of Analytical and Applied Pyrolysis</i> , 2001 , 58-59, 441-452	6	61
74	Oxidation of hydroquinones by the versatile ligninolytic peroxidase from <i>Pleurotus eryngii</i> . H ₂ O ₂ generation and the influence of Mn ²⁺ . <i>FEBS Journal</i> , 2001 , 268, 4787-93		51
73	Production of lipolytic enzymes in batch cultures of <i>Ophiostoma piceae</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2001 , 76, 991-996	3.5	4
72	Expression of <i>Pleurotus eryngii</i> aryl-alcohol oxidase in <i>Aspergillus nidulans</i> : purification and characterization of the recombinant enzyme. <i>BBA - Proteins and Proteomics</i> , 2001 , 1546, 107-13		29
71	The biotechnological control of pitch in paper pulp manufacturing. <i>Trends in Biotechnology</i> , 2001 , 19, 340-8	15.1	97
70	Time course of fungal removal of lipophilic extractives from <i>Eucalyptus globulus</i> wood. <i>Journal of Biotechnology</i> , 2001 , 84, 119-26	3.7	35
69	A new versatile peroxidase from <i>Pleurotus</i> . <i>Biochemical Society Transactions</i> , 2001 , 29, 116-22	5.1	16
68	The cloning of a new peroxidase found in lignocellulose cultures of <i>Pleurotus eryngii</i> and sequence comparison with other fungal peroxidases. <i>FEMS Microbiology Letters</i> , 2000 , 191, 37-43	2.9	53
67	Aryl-alcohol oxidase protein sequence: a comparison with glucose oxidase and other FAD oxidoreductases. <i>BBA - Proteins and Proteomics</i> , 2000 , 1481, 202-8		45
66	Biochemical characterization, cDNA cloning and protein crystallization of aryl-alcohol oxidase from <i>Pleurotus pulmonarius</i> . <i>BBA - Proteins and Proteomics</i> , 2000 , 1476, 129-38		29
65	Oxygen activation during oxidation of methoxyhydroquinones by laccase from <i>Pleurotus eryngii</i> . <i>Applied and Environmental Microbiology</i> , 2000 , 66, 170-5	4.8	92
64	Production of hydroxyl radical by the synergistic action of fungal laccase and aryl alcohol oxidase. <i>Archives of Biochemistry and Biophysics</i> , 2000 , 383, 142-7	4.1	90
63	Fungal Pretreatment of <i>Eucalyptus</i> Wood Can Strongly Decrease the Amount of Lipophilic Extractives during Chlorine Free Kraft Pulping. <i>Environmental Science & Technology</i> , 2000 , 34, 3705-3709	19.3	24
62	Fungal screening for biological removal of extractives from <i>Eucalyptus globulus</i> wood. <i>Canadian Journal of Botany</i> , 2000 , 77, 1513-1522		3
61	Southern blot screening for lignin peroxidase and aryl-alcohol oxidase genes in 30 fungal species. <i>Journal of Biotechnology</i> , 2000 , 83, 245-51	3.7	32

60	Different fungal manganese-oxidizing peroxidases: a comparison between <i>Bjerkandera</i> sp. and <i>Phanerochaete chrysosporium</i> . <i>Journal of Biotechnology</i> , 2000 , 77, 235-45	3.7	75
59	Description of a versatile peroxidase involved in the natural degradation of lignin that has both manganese peroxidase and lignin peroxidase substrate interaction sites. <i>Journal of Biological Chemistry</i> , 1999 , 274, 10324-30	5.4	277
58	Transformation of wheat straw in the course of solid-state fermentation by four ligninolytic basidiomycetes. <i>Enzyme and Microbial Technology</i> , 1999 , 25, 605-612	3.8	60
57	Solid-state spectroscopic analysis of lignins from several Austral hardwoods. <i>Solid State Nuclear Magnetic Resonance</i> , 1999 , 15, 41-8	3.1	66
56	Molecular characterization of a novel peroxidase isolated from the ligninolytic fungus <i>Pleurotus eryngii</i> . <i>Molecular Microbiology</i> , 1999 , 31, 223-35	4.1	189
55	Pyrolysis-gas chromatography/Mass spectrometry analysis of phenolic and etherified units in natural and industrial lignins. <i>Rapid Communications in Mass Spectrometry</i> , 1999 , 13, 630-636	2.2	41
54	Molecular cloning of aryl-alcohol oxidase from the fungus <i>Pleurotus eryngii</i> , an enzyme involved in lignin degradation. <i>Biochemical Journal</i> , 1999 , 341, 113	3.8	19
53	Molecular cloning of aryl-alcohol oxidase from the fungus <i>Pleurotus eryngii</i> , an enzyme involved in lignin degradation. <i>Biochemical Journal</i> , 1999 , 341, 113-117	3.8	29
52	Fungal degradation of lipophilic extractives in eucalyptus globulus wood. <i>Applied and Environmental Microbiology</i> , 1999 , 65, 1367-71	4.8	41
51	Fungal screening for biological removal of extractives from <i>Eucalyptus globulus</i> wood. <i>Canadian Journal of Botany</i> , 1999 , 77, 1513-1522		21
50	A study on reducing substrates of manganese-oxidizing peroxidases from <i>Pleurotus eryngii</i> and <i>Bjerkandera adusta</i> . <i>FEBS Letters</i> , 1998 , 428, 141-6	3.8	171
49	Electron and fluorescence microscopy of extracellular glucan and aryl-alcohol oxidase during wheat-straw degradation by <i>Pleurotus eryngii</i> . <i>Applied and Environmental Microbiology</i> , 1998 , 64, 325-324.8		26
48	Quinone redox cycling in the ligninolytic fungus <i>Pleurotus eryngii</i> leading to extracellular production of superoxide anion radical. <i>Archives of Biochemistry and Biophysics</i> , 1997 , 339, 190-9	4.1	107
47	Biochemical and molecular characterization of a manganese peroxidase isoenzyme from <i>Pleurotus ostreatus</i> . <i>BBA - Proteins and Proteomics</i> , 1997 , 1339, 23-30		85
46	Induction and Characterization of Laccase in the Ligninolytic Fungus <i>Pleurotus eryngii</i> . <i>Current Microbiology</i> , 1997 , 34, 1-5	2.4	146
45	Pyrolysis products as markers in the chemical characterization of paperboards from waste paper and wheat straw pulps. <i>Bioresource Technology</i> , 1997 , 60, 51-58	11	18
44	A ¹³ C CP/MAS NMR evaluation of the structural changes in wheat straw subjected to different chemical and biological pulping conditions. <i>Bioresource Technology</i> , 1997 , 60, 245-249	11	3
43	Demonstration of In Situ Oxidative Degradation of Lignin Side Chains by Two White-rot Fungi Using Analytical Pyrolysis of Methylated Wheat Straw. <i>Rapid Communications in Mass Spectrometry</i> , 1997 , 11, 331-334	2.2	17

42	Absolute quantitation of lignin pyrolysis products using an internal standard. <i>Journal of Chromatography A</i> , 1997 , 773, 227-232	4.5	55
41	Purification and catalytic properties of two manganese peroxidase isoenzymes from <i>Pleurotus eryngii</i> . <i>FEBS Journal</i> , 1996 , 237, 424-32		280
40	Matrix-assisted Laser Desorption/Ionization Mass Spectrometry of Natural and Synthetic Lignin. <i>Rapid Communications in Mass Spectrometry</i> , 1996 , 10, 1144-1147	2.2	25
39	Structural characterization of extracellular polysaccharides produced by fungi from the genus <i>Pleurotus</i> . <i>Carbohydrate Research</i> , 1996 , 281, 143-54	2.9	122
38	Use of analytical pyrolysis for the characterization of paper industry effluents. <i>Analytica Chimica Acta</i> , 1996 , 335, 245-251	6.6	4
37	Comparative analysis of wheat straw paperboards prepared after biomechanical and semichemical pulping. <i>Bioresource Technology</i> , 1996 , 57, 217-227	11	13
36	Hyphal-sheath polysaccharides in fungal deterioration. <i>Science of the Total Environment</i> , 1995 , 167, 315-328	12.2	48
35	Screening of 68 species of basidiomycetes for enzymes involved in lignin degradation. <i>Mycological Research</i> , 1995 , 99, 37-42		144
34	Studies on homoveratric acid transformation by the ligninolytic fungus <i>Pleurotus eryngii</i> . <i>Applied Microbiology and Biotechnology</i> , 1994 , 41, 500-504	5.7	27
33	Hydrogen-peroxide-producing system of <i>Pleurotus eryngii</i> involving the extracellular enzyme aryl-alcohol oxidase. <i>Applied Microbiology and Biotechnology</i> , 1994 , 41, 465-470	5.7	55
32	Preferential degradation of phenolic lignin units by two white rot fungi. <i>Applied and Environmental Microbiology</i> , 1994 , 60, 4509-16	4.8	79
31	Comparative study of fractions from alkaline extraction of wheat straw through chemical degradation, analytical pyrolysis, and spectroscopic techniques. <i>Journal of Agricultural and Food Chemistry</i> , 1993 , 41, 1621-1626	5.7	63
30	In vitro decay of <i>Alecton punctatum</i> and <i>Fagus sylvatica</i> woods by white and brown-rot fungi. <i>Wood Science and Technology</i> , 1993 , 27, 295-307	2.5	21
29	Ultrastructural Aspects of Fungal Delignification of Chilean Woods by <i>Ganoderma australe</i> and <i>Phlebia chrysocrea</i> . A Study of Natural and In Vitro Degradation. <i>Holzforchung</i> , 1992 , 46, 1-8	2	31
28	Changes in the polydispersity of colloidal lignins by ligninolytic basidiomycetes. <i>Journal of Biotechnology</i> , 1992 , 25, 333-339	3.7	5
27	CPMAS carbon-13 NMR study of lignin preparations from wheat straw transformed by five lignocellulose-degrading fungi. <i>Journal of Agricultural and Food Chemistry</i> , 1992 , 40, 1297-1302	5.7	45
26	Substrate specificity and properties of the aryl-alcohol oxidase from the ligninolytic fungus <i>Pleurotus eryngii</i> . <i>FEBS Journal</i> , 1992 , 209, 603-11		180
25	An analytical pyrolysis mass spectrometric study of <i>Eucryphia cordifolia</i> wood decayed by white-rot and brown-rot fungi. <i>Journal of Analytical and Applied Pyrolysis</i> , 1991 , 19, 175-191	6	53

24	Chemical transformation of wheat straw constituents after solid-state fermentation with selected lignocellulose-degrading fungi. <i>Biomass and Bioenergy</i> , 1991 , 1, 261-266	5.3	33
23	p-Hydroxyphenyl:Guaiacyl:Syngyl Ratio of Lignin in Some Austral Hardwoods Estimated by CuO-Oxidation and Solid-State NMR. <i>Holzforschung</i> , 1991 , 45, 279-284	2	19
22	Kinetics of wheat straw solid-state fermentation with <i>Trametes versicolor</i> and <i>Pleurotus ostreatus</i> Lignin and polysaccharide alteration and production of related enzymatic activities. <i>Applied Microbiology and Biotechnology</i> , 1991 , 35, 817	5.7	69
21	Solid-State NMR Studies of Lignin and Plant Polysaccharide Degradation by Fungi. <i>Holzforschung</i> , 1991 , 45, 49-54	2	43
20	Fatty acid composition and taxonomic status of <i>Ganoderma australe</i> from southern Chile. <i>Mycological Research</i> , 1991 , 95, 782-784		18
19	Screening of yeasts isolated from decayed wood for lignocellulose-degrading enzyme activities. <i>Mycological Research</i> , 1991 , 95, 1299-1302		19
18	Production of hydrogen peroxide by aryl-alcohol oxidase from the ligninolytic fungus <i>Pleurotus eryngii</i> . <i>Applied Microbiology and Biotechnology</i> , 1990 , 32, 465-469	5.7	123
17	Substrate-dependent degradation patterns in the decay of wheat straw and beech wood by ligninolytic fungi. <i>Applied Microbiology and Biotechnology</i> , 1990 , 33, 481	5.7	42
16	A new <i>Botryosaurus</i> from the air of a poultry farm. <i>Canadian Journal of Botany</i> , 1990 , 68, 1738-1740		2
15	A study of yeasts during the delignification and fungal transformation of wood into cattle feed in Chilean rain forest. <i>Antonie Van Leeuwenhoek</i> , 1989 , 55, 221-36	2.1	42
14	Contribution by pigmented fungi to P-type humic acid formation in two forest soils. <i>Soil Biology and Biochemistry</i> , 1989 , 21, 23-28	7.5	26
13	Extracellular (1 \rightarrow 3), (1 \rightarrow 6)-linked β -D-glucan produced by the soil fungus <i>Ulocladium atrum</i> . <i>Soil Biology and Biochemistry</i> , 1986 , 18, 469-474	7.5	4
12	Degradative oxidation products of the melanin of <i>Ulocladium atrum</i> . <i>Soil Biology and Biochemistry</i> , 1985 , 17, 723-726	7.5	6
11	Production of brown and green humic-like substances by <i>Ulocladium atrum</i> . <i>Soil Biology and Biochemistry</i> , 1985 , 17, 257-259	7.5	21
10	<i>Rhizosphaera oudemansii</i> (Sphaeropsidales) associated with a needle cast of Spanish <i>Abies pinsapo</i> . <i>Mycopathologia</i> , 1983 , 83, 175-182	2.9	4
9	Taxonomic relationships of <i>Geotrichum flavo-brunneum</i> . <i>Antonie Van Leeuwenhoek</i> , 1982 , 48, 57-9	2.1	
8	Scanning electron microscopy of <i>Penicillium</i> conidia. <i>Antonie Van Leeuwenhoek</i> , 1982 , 48, 245-55	2.1	7
7	Four new species of <i>Penicillium</i> isolated from different substrata. <i>Mycopathologia</i> , 1981 , 74, 163-171	2.9	7

6	Four new species of penicillium isolated from the air. <i>Mycopathologia</i> , 1980 , 72, 27-34	2.9	3
5	Some new species of Penicillium recovered from the atmosphere in Madrid and from other substrata. <i>Mycopathologia</i> , 1980 , 72, 181-91	2.9	6
4	Penicillium fagi sp. nov., isolated from beech leaves. <i>Mycopathologia</i> , 1978 , 63, 57-59	2.9	13
3	Three new species of penicillium. <i>Mycopathologia</i> , 1978 , 66, 77-82	2.9	8
2	Microfungal biomass and number of propagules in an andosol. <i>Soil Biology and Biochemistry</i> , 1978 , 10, 529-531	7.5	5
1	Purification and characterization of peroxidases from the dye-decolorizing fungus Bjerkandera adusta		5