# Angel T MartÃ-nez

List of Publications by Year
in descending order



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|---|---|---|---|
| 310 papers | 23,324 citations | 6233 80 h-index | 11288 136 g-index |
| 317 all docs | 317 docs citations | 317 times ranked | 13591 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Enzymatic Epoxidation of Long-Chain Terminal Alkenes by Fungal Peroxygenases. Antioxidants, 2022, 11, 522. | 2.2 | 8 |
| 2 | Novel Fatty Acid Chain-Shortening by Fungal Peroxygenases Yielding 2C-Shorter Dicarboxylic Acids. Antioxidants, 2022, 11, 744. | 2.2 | 2 |
| 3 | Structural Characterization of Two Short Unspecific Peroxygenases: Two Different Dimeric Arrangements. Antioxidants, 2022, 11, 891. | 2.2 | 7 |
| 4 | Engineering Collariella virescens Peroxygenase for Epoxides Production from Vegetable Oil. Antioxidants, 2022, 11, 915. | 2.2 | 2 |
| 5 | Genomic Analysis Enlightens Agaricales Lifestyle Evolution and Increasing Peroxidase Diversity. Molecular Biology and Evolution, 2021, 38, 1428-1446. | 3.5 | 72 |
| 6 | Early-stage sustainability assessment of enzyme production in the framework of lignocellulosic biorefinery. Journal of Cleaner Production, 2021, 285, 125461. | 4.6 | 12 |
| 7 | Gene family expansions and transcriptome signatures uncover fungal adaptations to wood decay. Environmental Microbiology, 2021, 23, 5716-5732. | 1.8 | 44 |
| 8 | Comparing Ligninolytic Capabilities of Bacterial and Fungal Dye-Decolorizing Peroxidases and Class-II Peroxidase-Catalases. International Journal of Molecular Sciences, 2021, 22, 2629. | 1.8 | 20 |
| 9 | A Multiomic Approach to Understand How Pleurotus eryngii Transforms Non-Woody Lignocellulosic Material. Journal of Fungi (Basel, Switzerland), 2021, 7, 426. | 1.5 | 9 |
| 10 | Agaricales Mushroom Lignin Peroxidase: From Structureâ€"Function to Degradative Capabilities. Antioxidants, 2021, 10, 1446. | 2.2 | 12 |
| 11 | Optimizing operational parameters for the enzymatic production of furandicarboxylic acid building block. Microbial Cell Factories, 2021, 20, 180. | 1.9 | 6 |
| 12 | Advances in enzymatic oxyfunctionalization of aliphatic compounds. Biotechnology Advances, 2021, 51, 107703. | 6.0 | 31 |
| 13 | New Insights on Structures Forming the Lignin-Like Fractions of Ancestral Plants. Frontiers in Plant Science, 2021, 12, 740923. | 1.7 | 17 |
| 14 | Regioselective and Stereoselective Epoxidation of n-3 and n-6 Fatty Acids by Fungal Peroxygenases. Antioxidants, 2021, 10, 1888. | 2.2 | 8 |
| 15 | Sequential oxidation of 5-hydroxymethylfurfural to furan-2,5-dicarboxylic acid by an evolved aryl-alcohol oxidase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2020, 1868, 140293. | 1.1 | 35 |
| 16 | Fatty acid epoxidation by<i>Collariella virescens</i>peroxygenase and heme-channel variants. Catalysis Science and Technology, 2020, 10, 717-725. | 2.1 | 29 |
| 17 | Fatty-Acid Oxygenation by Fungal Peroxygenases: From Computational Simulations to Preparative Regio- and Stereoselective Epoxidation. ACS Catalysis, 2020, 10, 13584-13595. | 5.5 | 25 |
| 18 | Deciphering the Unique Structure and Acylation Pattern of <i>Posidonia oceanica</i> Lignin. ACS Sustainable Chemistry and Engineering, 2020, 8, 12521-12533. | 3.2 | 24 |

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|---|---|---|---|
| 19 | Conserved white-rot enzymatic mechanism for wood decay in the Basidiomycota genus <i>Pycnoporus</i>. DNA Research, 2020, 27, . | 1.5 | 32 |
| 20 | Screening and Evaluation of New Hydroxymethylfurfural Oxidases for Furandicarboxylic Acid Production. Applied and Environmental Microbiology, 2020, 86, . | 1.4 | 20 |
| 21 | Genome sequencing of Rigidoporus microporus provides insights on genes important for wood decay, latex tolerance and interspecific fungal interactions. Scientific Reports, 2020, 10, 5250. | 1.6 | 16 |
| 22 | Lignin degradation and detoxification of eucalyptus wastes by on-site manufacturing fungal enzymes to enhance second-generation ethanol yield. Applied Energy, 2020, 262, 114493. | 5.1 | 59 |
| 23 | Two New Unspecific Peroxygenases from Heterologous Expression of Fungal Genes in Escherichia coli. Applied and Environmental Microbiology, 2020, 86, . | 1.4 | 43 |
| 24 | Selective Oxygenation of Ionones and Damascones by Fungal Peroxygenases. Journal of Agricultural and Food Chemistry, 2020, 68, 5375-5383. | 2.4 | 13 |
| 25 | High Epoxidation Yields of Vegetable Oil Hydrolyzates and Methyl Esters by Selected Fungal Peroxygenases. Frontiers in Bioengineering and Biotechnology, 2020, 8, 605854. | 2.0 | 16 |
| 26 | Reaction mechanisms and applications of aryl-alcohol oxidase. The Enzymes, 2020, 47, 167-192. | 0.7 | 12 |
| 27 | Peroxidase evolution in white-rot fungi follows wood lignin evolution in plants. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17900-17905. | 3.3 | 47 |
| 28 | A Sustainable Approach of Enzymatic Grafting onEucalyptus globulusWood by Laccase from the Newly Isolated White-Rot BasidiomyceteMarasmiellus palmivorusVE111. ACS Sustainable Chemistry and Engineering, 2019, 7, 13418-13424. | 3.2 | 17 |
| 29 | Binding and Catalytic Mechanisms of Veratryl Alcohol Oxidation by Lignin Peroxidase: A Theoretical and Experimental Study. Computational and Structural Biotechnology Journal, 2019, 17, 1066-1074. | 1.9 | 22 |
| 30 | Engineering of a fungal laccase to develop a robust, versatile and highly-expressed biocatalyst for sustainable chemistry. Green Chemistry, 2019, 21, 5374-5385. | 4.6 | 36 |
| 31 | Structural and biochemical insights into an engineered high-redox potential laccase overproduced in Aspergillus. International Journal of Biological Macromolecules, 2019, 141, 855-867. | 3.6 | 17 |
| 32 | Complete oxidation of hydroxymethylfurfural to furandicarboxylic acid by aryl-alcohol oxidase. Biotechnology for Biofuels, 2019, 12, 217. | 6.2 | 50 |
| 33 | Switching the substrate preference of fungal aryl-alcohol oxidase: towards stereoselective oxidation of secondary benzyl alcohols. Catalysis Science and Technology, 2019, 9, 833-841. | 2.1 | 17 |
| 34 | Modulating Fatty Acid Epoxidation vs Hydroxylation in a Fungal Peroxygenase. ACS Catalysis, 2019, 9, 6234-6242. | 5.5 | 54 |
| 35 | Different fungal peroxidases oxidize nitrophenols at a surface catalytic tryptophan. Archives of Biochemistry and Biophysics, 2019, 668, 23-28. | 1.4 | 6 |
| 36 | Structureâ€Guided Evolution of Aryl Alcohol Oxidase from Pleurotus eryngii for the Selective Oxidation of Secondary Benzyl Alcohols. Advanced Synthesis and Catalysis, 2019, 361, 2514. | 2.1 | 27 |

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|---|---|---|---|
| 37 | Selective synthesis of 4-hydroxyisophorone and 4-ketoisophorone by fungal peroxygenases. Catalysis Science and Technology, 2019, 9, 1398-1405. | 2.1 | 26 |
| 38 | Increase of Redox Potential during the Evolution of Enzymes Degrading Recalcitrant Lignin. Chemistry - A European Journal, 2019, 25, 2708-2712. | 1.7 | 16 |
| 39 | Stepwise Hydrogen Atom and Proton Transfers in Dioxygen Reduction by Aryl-Alcohol Oxidase. Biochemistry, 2018, 57, 1790-1797. | 1.2 | 10 |
| 40 | Fungal lignin peroxidase does not produce the veratryl alcohol cation radical as a diffusible ligninolytic oxidant. Journal of Biological Chemistry, 2018, 293, 4702-4712. | 1.6 | 30 |
| 41 | Self-sustained enzymatic cascade for the production of 2,5-furandicarboxylic acid from 5-methoxymethylfurfural. Biotechnology for Biofuels, 2018, 11, 86. | 6.2 | 49 |
| 42 | Selective synthesis of the resveratrol analogue 4,4â€²-dihydroxy-<i>trans</i>-stilbene and stilbenoids modification by fungal peroxygenases. Catalysis Science and Technology, 2018, 8, 2394-2401. | 2.1 | 28 |
| 43 | A commercial laccase-mediator system to delignify and improve saccharification of the fast-growing<i>Paulownia fortunei</i>(Seem.) Hemsl.. Holzforschung, 2018, 73, 45-54. | 0.9 | 13 |
| 44 | A highly stable laccase obtained by swapping the second cupredoxin domain. Scientific Reports, 2018, 8, 15669. | 1.6 | 37 |
| 45 | Multiple implications of an active site phenylalanine in the catalysis of aryl-alcohol oxidase. Scientific Reports, 2018, 8, 8121. | 1.6 | 15 |
| 46 | Description of a Non-Canonical Mn(II)-Oxidation Site in Peroxidases. ACS Catalysis, 2018, 8, 8386-8395. | 5.5 | 21 |
| 47 | Computational Modeling Methods for Understanding the Interaction of Lignin and Its Derivatives with Oxidoreductases as Biocatalysts. , 2018, , . | | 0 |
| 48 | Selective Epoxidation of Fatty Acids and Fatty Acid Methyl Esters by Fungal Peroxygenases. ChemCatChem, 2018, 10, 3964-3968. | 1.8 | 26 |
| 49 | Evolutionary convergence in lignin-degrading enzymes. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6428-6433. | 3.3 | 61 |
| 50 | Simulating Substrate Recognition and Oxidation in Laccases: From Description to Design. Journal of Chemical Theory and Computation, 2017, 13, 1462-1467. | 2.3 | 25 |
| 51 | Mapping the Long-Range Electron Transfer Route in Ligninolytic Peroxidases. Journal of Physical Chemistry B, 2017, 121, 3946-3954. | 1.2 | 28 |
| 52 | Oxidoreductases on their way to industrial biotransformations. Biotechnology Advances, 2017, 35, 815-831. | 6.0 | 205 |
| 53 | Experimental recreation of the evolution of lignin-degrading enzymes from the Jurassic to date. Biotechnology for Biofuels, 2017, 10, 67. | 6.2 | 41 |
| 54 | Fatty Acid Chain Shortening by a Fungal Peroxygenase. Chemistry - A European Journal, 2017, 23, 16985-16989. | 1.7 | 37 |

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|---|---|---|---|
| 55 | Protein dynamics promote hydride tunnelling in substrate oxidation by aryl-alcohol oxidase. Physical Chemistry Chemical Physics, 2017, 19, 28666-28675. | 1.3 | 20 |
| 56 | Draft genome sequence of a monokaryotic model brown-rot fungus Postia (Rhodonia) placenta SB12. Genomics Data, 2017, 14, 21-23. | 1.3 | 19 |
| 57 | Delignification and Saccharification Enhancement of Sugarcane Byproducts by a Laccase-Based Pretreatment. ACS Sustainable Chemistry and Engineering, 2017, 5, 7145-7154. | 3.2 | 53 |
| 58 | Advanced Synthesis of Conductive Polyaniline Using Laccase as Biocatalyst. PLoS ONE, 2016, 11, e0164958. | 1.1 | 38 |
| 59 | Computer-Aided Laccase Engineering: Toward Biological Oxidation of Arylamines. ACS Catalysis, 2016, 6, 5415-5423. | 5.5 | 54 |
| 60 | Unveiling the basis of alkaline stability of an evolved versatile peroxidase. Biochemical Journal, 2016, 473, 1917-1928. | 1.7 | 13 |
| 61 | Asymmetric sulfoxidation by engineering the heme pocket of a dye-decolorizing peroxidase. Catalysis Science and Technology, 2016, 6, 6277-6285. | 2.1 | 17 |
| 62 | How to break down crystalline cellulose. Science, 2016, 352, 1050-1051. | 6.0 | 41 |
| 63 | A secretomic view of woody and nonwoody lignocellulose degradation by Pleurotus ostreatus. Biotechnology for Biofuels, 2016, 9, 49. | 6.2 | 85 |
| 64 | Ligninâ€“carbohydrate complexes from sisal (Agave sisalana) and abaca (Musa textilis): chemical composition and structural modifications during the isolation process. Planta, 2016, 243, 1143-1158. | 1.6 | 37 |
| 65 | From Alkanes to Carboxylic Acids: Terminal Oxygenation by a Fungal Peroxygenase. Angewandte Chemie - International Edition, 2016, 55, 12248-12251. | 7.2 | 43 |
| 66 | From Alkanes to Carboxylic Acids: Terminal Oxygenation by a Fungal Peroxygenase. Angewandte Chemie, 2016, 128, 12436-12439. | 1.6 | 14 |
| 67 | Lignin depolymerization by fungal secretomes and a microbial sink. Green Chemistry, 2016, 18, 6046-6062. | 4.6 | 84 |
| 68 | Role of surface tryptophan for peroxidase oxidation of nonphenolic lignin. Biotechnology for Biofuels, 2016, 9, 198. | 6.2 | 37 |
| 69 | Fungal Aryl-Alcohol Oxidase in Lignocellulose Degradation and Bioconversion. Biofuel and Biorefinery Technologies, 2016, , 301-322. | 0.1 | 9 |
| 70 | Laccase-Mediator Pretreatment of Wheat Straw Degrades Lignin and Improves Saccharification. Bioenergy Research, 2016, 9, 917-930. | 2.2 | 52 |
| 71 | Alkaline versatile peroxidase by directed evolution. Catalysis Science and Technology, 2016, 6, 6625-6636. | 2.1 | 21 |
| 72 | Re-designing the substrate binding pocket of laccase for enhanced oxidation of sinapic acid. Catalysis Science and Technology, 2016, 6, 3900-3910. | 2.1 | 56 |

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|---|---|---|---|
| 73 | Molecular determinants for selective C<sub>25</sub>-hydroxylation of vitamins D<sub>2</sub>and D<sub>3</sub>by fungal peroxygenases. Catalysis Science and Technology, 2016, 6, 288-295. | 2.1 | 29 |
| 74 | Rational Enzyme Engineering Through Biophysical and Biochemical Modeling. ACS Catalysis, 2016, 6, 1624-1629. | 5.5 | 48 |
| 75 | Enhanced degradation of softwood versus hardwood by the white-rot fungus Pycnoporus coccineus. Biotechnology for Biofuels, 2015, 8, 216. | 6.2 | 67 |
| 76 | Aromatic stacking interactions govern catalysis in arylâ€alcohol oxidase. FEBS Journal, 2015, 282, 3091-3106. | 2.2 | 22 |
| 77 | Improving the Oxidative Stability of a High Redox Potential Fungal Peroxidase by Rational Design. PLoS ONE, 2015, 10, e0124750. | 1.1 | 34 |
| 78 | Steroid Hydroxylation by Basidiomycete Peroxygenases: a Combined Experimental and Computational Study. Applied and Environmental Microbiology, 2015, 81, 4130-4142. | 1.4 | 36 |
| 79 | Isolation and Structural Characterization of the Milled Wood Lignin, Dioxane Lignin, and Cellulolytic Lignin Preparations from Brewerâ€™s Spent Grain. Journal of Agricultural and Food Chemistry, 2015, 63, 603-613. | 2.4 | 110 |
| 80 | Regioselective Hydroxylation in the Production of 25â€Hydroxyvitaminâ€…D by <i>Coprinopsis cinerea</i> Peroxygenase. ChemCatChem, 2015, 7, 283-290. | 1.8 | 23 |
| 81 | 5â€hydroxymethylfurfural conversion by fungal arylâ€alcohol oxidase and unspecific peroxygenase. FEBS Journal, 2015, 282, 3218-3229. | 2.2 | 132 |
| 82 | Focused Directed Evolution of Aryl-Alcohol Oxidase in Saccharomyces cerevisiae by Using Chimeric Signal Peptides. Applied and Environmental Microbiology, 2015, 81, 6451-6462. | 1.4 | 37 |
| 83 | Redox-Active Sites in <i>Auricularia auricula-judae</i> Dye-Decolorizing Peroxidase and Several Directed Variants: A Multifrequency EPR Study. Journal of Physical Chemistry B, 2015, 119, 13583-13592. | 1.2 | 16 |
| 84 | Description of the first fungal dye-decolorizing peroxidase oxidizing manganese(II). Applied Microbiology and Biotechnology, 2015, 99, 8927-8942. | 1.7 | 66 |
| 85 | Catalytic surface radical in dye-decolorizing peroxidase: a computational, spectroscopic and site-directed mutagenesis study. Biochemical Journal, 2015, 466, 253-262. | 1.7 | 84 |
| 86 | Basidiomycete DyPs: Genomic diversity, structuralâ€“functional aspects, reaction mechanism and environmental significance. Archives of Biochemistry and Biophysics, 2015, 574, 66-74. | 1.4 | 71 |
| 87 | Insights into Laccase Engineering from Molecular Simulations: Toward a Binding-Focused Strategy. Journal of Physical Chemistry Letters, 2015, 6, 1447-1453. | 2.1 | 55 |
| 88 | Differences in the chemical structure of the lignins from sugarcane bagasse and straw. Biomass and Bioenergy, 2015, 81, 322-338. | 2.9 | 227 |
| 89 | A survey of genes encoding H2O2-producing GMC oxidoreductases in 10 Polyporales genomes. Mycologia, 2015, 107, 1105-1119. | 0.8 | 53 |
| 90 | Demonstration of Lignin-to-Peroxidase Direct Electron Transfer. Journal of Biological Chemistry, 2015, 290, 23201-23213. | 1.6 | 30 |

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|---|---|---|---|
| 91 | In-Depth 2D NMR Study of Lignin Modification During Pretreatment of Eucalyptus Wood with Laccase and Mediators. Bioenergy Research, 2015, 8, 211-230. | 2.2 | 35 |
| 92 | Improving the pH-stability of Versatile Peroxidase by Comparative Structural Analysis with a Naturally-Stable Manganese Peroxidase. PLoS ONE, 2015, 10, e0140984. | 1.1 | 39 |
| 93 | Analysis of the Phlebiopsis gigantea Genome, Transcriptome and Secretome Provides Insight into Its Pioneer Colonization Strategies of Wood. PLoS Genetics, 2014, 10, e1004759. | 1.5 | 90 |
| 94 | Engineering a fungal peroxidase that degrades lignin at very acidic pH. Biotechnology for Biofuels, 2014, 7, 114. | 6.2 | 46 |
| 95 | Ligninolytic peroxidase genes in the oyster mushroom genome: heterologous expression, molecular structure, catalytic and stability properties, and lignin-degrading ability. Biotechnology for Biofuels, 2014, 7, 2. | 6.2 | 107 |
| 96 | Structural implications of the C-terminal tail in the catalytic and stability properties of manganese peroxidases from ligninolytic fungi. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 3253-3265. | 2.5 | 33 |
| 97 | Structural insights on laccase biografting of ferulic acid onto lignocellulosic fibers. Biochemical Engineering Journal, 2014, 86, 16-23. | 1.8 | 20 |
| 98 | Understanding lignin biodegradation for the improved utilization of plant biomass in modern biorefineries. Biofuels, Bioproducts and Biorefining, 2014, 8, 615-625. | 1.9 | 63 |
| 99 | Analysis of ligninâ€"carbohydrate and ligninâ€"lignin linkages after hydrolase treatment of xylanâ€"lignin, glucomannanâ€"lignin and glucanâ€"lignin complexes from spruce wood. Planta, 2014, 239, 1079-90. | 1.6 | 73 |
| 100 | Structural Determinants of Oxidative Stabilization in an Evolved Versatile Peroxidase. ACS Catalysis, 2014, 4, 3891-3901. | 5.5 | 31 |
| 101 | Heterologous expression and physicochemical characterization of a fungal dye-decolorizing peroxidase from Auricularia auricula-judae. Protein Expression and Purification, 2014, 103, 28-37. | 0.6 | 33 |
| 102 | Search, engineering, and applications of new oxidative biocatalysts. Biofuels, Bioproducts and Biorefining, 2014, 8, 819-835. | 1.9 | 16 |
| 103 | The genome of the white-rot fungus Pycnoporus cinnabarinus: a basidiomycete model with a versatile arsenal for lignocellulosic biomass breakdown. BMC Genomics, 2014, 15, 486. | 1.2 | 91 |
| 104 | Enzymatic degradation of Elephant grass (Pennisetum purpureum) stems: Influence of the pith and bark in the total hydrolysis. Bioresource Technology, 2014, 167, 469-475. | 4.8 | 19 |
| 105 | Wood and humus decay strategies by white-rot basidiomycetes correlate with two different dye decolorization and enzyme secretion patterns on agar plates. Fungal Genetics and Biology, 2014, 72, 106-114. | 0.9 | 18 |
| 106 | Ligninolytic peroxidase gene expression by Pleurotus ostreatus : Differential regulation in lignocellulose medium and effect of temperature and pH. Fungal Genetics and Biology, 2014, 72, 150-161. | 0.9 | 68 |
| 107 | Pretreatment with laccase and a phenolic mediator degrades lignin and enhances saccharification of Eucalyptus feedstock. Biotechnology for Biofuels, 2014, 7, 6. | 6.2 | 161 |
| 108 | Lignin-degrading peroxidases in Polyporales: an evolutionary survey based on 10 sequenced genomes. Mycologia, 2013, 105, 1428-1444. | 0.8 | 134 |

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|---|---|---|---|
| 109 | Understanding Pulp Delignification by Laccaseâ€“Mediator Systems through Isolation and Characterization of Ligninâ€“Carbohydrate Complexes. Biomacromolecules, 2013, 14, 3073-3080. | 2.6 | 44 |
| 110 | Oxyfunctionalization of aliphatic compounds by a recombinant peroxygenase from <i>Coprinopsis cinerea</i>. Biotechnology and Bioengineering, 2013, 110, 2323-2332. | 1.7 | 77 |
| 111 | Differential proteomic analysis of the secretome of Irpex lacteus and other white-rot fungi during wheat straw pretreatment. Biotechnology for Biofuels, 2013, 6, 115. | 6.2 | 84 |
| 112 | Sugar recoveries from wheat straw following treatments with the fungus Irpex lacteus. Bioresource Technology, 2013, 131, 218-225. | 4.8 | 51 |
| 113 | Structural Characterization of Lignin Isolated from Coconut (<i>Cocos nucifera</i>) Coir Fibers. Journal of Agricultural and Food Chemistry, 2013, 61, 2434-2445. | 2.4 | 130 |
| 114 | Versatile peroxidase as a valuable tool for generating new biomolecules by homogeneous and heterogeneous cross-linking. Enzyme and Microbial Technology, 2013, 52, 303-311. | 1.6 | 30 |
| 115 | Modification of the Lignin Structure during Alkaline Delignification of Eucalyptus Wood by Kraft, Soda-AQ, and Soda-O<sub>2</sub>Cooking. Industrial & Engineering Chemistry Research, 2013, 52, 15702-15712. | 1.8 | 67 |
| 116 | Structural Modifications of Residual Lignins from Sisal and Flax Pulps during Soda-AQ Pulping and TCF/ECF Bleaching. Industrial & Engineering Chemistry Research, 2013, 52, 4695-4703. | 1.8 | 13 |
| 117 | Formation of a tyrosine adduct involved in lignin degradation by Trametopsis cervina lignin peroxidase: a novel peroxidase activation mechanism. Biochemical Journal, 2013, 452, 575-584. | 1.7 | 25 |
| 118 | Characterization of a Novel Dye-Decolorizing Peroxidase (DyP)-Type Enzyme from Irpex lacteus and Its Application in Enzymatic Hydrolysis of Wheat Straw. Applied and Environmental Microbiology, 2013, 79, 4316-4324. | 1.4 | 125 |
| 119 | Cloning, Overexpression in Escherichia coli, and Characterization of a Thermostable Fungal Acetylxylan Esterase from Talaromyces emersonii. Applied and Environmental Microbiology, 2012, 78, 3759-3762. | 1.4 | 7 |
| 120 | Directed evolution of a temperature-, peroxide- and alkaline pH-tolerant versatile peroxidase. Biochemical Journal, 2012, 441, 487-498. | 1.7 | 98 |
| 121 | Two Oxidation Sites for Low Redox Potential Substrates. Journal of Biological Chemistry, 2012, 287, 41053-41067. | 1.6 | 65 |
| 122 | Lignin-degrading peroxidases from genome of selective ligninolytic fungus Ceriporiopsis subvermispora.. Journal of Biological Chemistry, 2012, 287, 41744. | 1.6 | 2 |
| 123 | Role of Active Site Histidines in the Two Half-Reactions of the Aryl-Alcohol Oxidase Catalytic Cycle. Biochemistry, 2012, 51, 6595-6608. | 1.2 | 51 |
| 124 | Lignin-degrading Peroxidases from Genome of Selective Ligninolytic Fungus Ceriporiopsis subvermispora. Journal of Biological Chemistry, 2012, 287, 16903-16916. | 1.6 | 81 |
| 125 | Biodeinking of flexographic inks by fungal laccases using synthetic and natural mediators. Biochemical Engineering Journal, 2012, 67, 97-103. | 1.8 | 41 |
| 126 | Demonstration of laccase-based removal of lignin from wood and non-wood plant feedstocks. Bioresource Technology, 2012, 119, 114-122. | 4.8 | 130 |

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|---|---|---|---|
| 127 | Structural Characterization of Wheat Straw Lignin as Revealed by Analytical Pyrolysis, 2D-NMR, and Reductive Cleavage Methods. Journal of Agricultural and Food Chemistry, 2012, 60, 5922-5935. | 2.4 | 650 |
| 128 | Structural Characterization of the Lignin in the Cortex and Pith of Elephant Grass (<i>Pennisetum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 2.4 | 172 |
| 129 | Engineering Platforms for Directed Evolution of Laccase from Pycnoporus cinnabarinus. Applied and Environmental Microbiology, 2012, 78, 1370-1384. | 1.4 | 123 |
| 130 | Comparative genomics of <i>Ceriporiopsis subvermispora</i> and <i>Phanerochaete chrysosporium</i> provide insight into selective ligninolysis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5458-5463. | 3.3 | 259 |
| 131 | The Paleozoic Origin of Enzymatic Lignin Decomposition Reconstructed from 31 Fungal Genomes. Science, 2012, 336, 1715-1719. | 6.0 | 1,424 |
| 132 | Morphological characteristics and composition of lipophilic extractives and lignin in Brazilian woods from different eucalypt hybrids. Industrial Crops and Products, 2012, 36, 572-583. | 2.5 | 32 |
| 133 | Stereoselective Hydride Transfer by Arylâ€Alcohol Oxidase, a Member of the GMC Superfamily. ChemBioChem, 2012, 13, 427-435. | 1.3 | 48 |
| 134 | Origin of the acetylated structures present in white birch (Betula pendula Roth) milled wood lignin. Wood Science and Technology, 2012, 46, 459-471. | 1.4 | 17 |
| 135 | Fungal aryl-alcohol oxidase: a peroxide-producing flavoenzyme involved in lignin degradation. Applied Microbiology and Biotechnology, 2012, 93, 1395-1410. | 1.7 | 145 |
| 136 | Enzymatic deinking of secondary fibers: cellulases/hemicellulases versus laccase-mediator system. Journal of Industrial Microbiology and Biotechnology, 2012, 39, 1-9. | 1.4 | 62 |
| 137 | EPR parameters of amino acid radicals in P. eryngii versatile peroxidase and its W164Y variant computed at the QM/MM level. Physical Chemistry Chemical Physics, 2011, 13, 5078. | 1.3 | 30 |
| 138 | Crystallographic, Kinetic, and Spectroscopic Study of the First Ligninolytic Peroxidase Presenting a Catalytic Tyrosine. Journal of Biological Chemistry, 2011, 286, 15525-15534. | 1.6 | 52 |
| 139 | Structural Characterization of Guaiacyl-rich Lignins in Flax (Linum usitatissimum) Fibers and Shives. Journal of Agricultural and Food Chemistry, 2011, 59, 11088-11099. | 2.4 | 92 |
| 140 | Regioselective oxygenation of fatty acids, fatty alcohols and other aliphatic compounds by a basidiomycete heme-thiolate peroxidase. Archives of Biochemistry and Biophysics, 2011, 514, 33-43. | 1.4 | 76 |
| 141 | Pleurotus ostreatus heme peroxidases: An in silico analysis from the genome sequence to the enzyme molecular structure. Comptes Rendus - Biologies, 2011, 334, 795-805. | 0.1 | 56 |
| 142 | Modulating O2 Reactivity in a Fungal Flavoenzyme. Journal of Biological Chemistry, 2011, 286, 41105-41114. | 1.6 | 46 |
| 143 | Substrate diffusion and oxidation in GMC oxidoreductases: an experimental and computational study on fungal aryl-alcohol oxidase. Biochemical Journal, 2011, 436, 341-350. | 1.7 | 62 |
| 144 | Selective lignin and polysaccharide removal in natural fungal decay of wood as evidenced by <i>in situ</i> structural analyses. Environmental Microbiology, 2011, 13, 96-107. | 1.8 | 93 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Influence of organic co-solvents on the activity and substrate specificity of feruloyl esterases. Bioresource Technology, 2011, 102, 4962-4967. | 4.8 | 43 |
| 146 | Fungal pretreatment: An alternative in second-generation ethanol from wheat straw. Bioresource Technology, 2011, 102, 7500-7506. | 4.8 | 282 |
| 147 | Towards industrially-feasible delignification and pitch removal by treating paper pulp with Myceliophthora thermophila laccase and a phenolic mediator. Bioresource Technology, 2011, 102, 6717-6722. | 4.8 | 71 |
| 148 | Fungi and Their Enzymes for Pitch Control in the Pulp and Paper Industry. , 2011, , 357-377. | | 3 |
| 149 | Lignin Composition and Structure in Young versus Adult<i>Eucalyptus globulus</i>Plants. Plant Physiology, 2011, 155, 667-682. | 2.3 | 263 |
| 150 | Polymerization of lignosulfonates by the laccase-HBT (1-hydroxybenzotriazole) system improves dispersibility. Bioresource Technology, 2010, 101, 5054-5062. | 4.8 | 112 |
| 151 | Enzymatic grafting of simple phenols on flax and sisal pulp fibres using laccases. Bioresource Technology, 2010, 101, 8211-8216. | 4.8 | 83 |
| 152 | Delignification of eucalypt kraft pulp with manganese-substituted polyoxometalate assisted by fungal versatile peroxidase. Bioresource Technology, 2010, 101, 5935-5940. | 4.8 | 19 |
| 153 | Evolving thermostability in mutant libraries of ligninolytic oxidoreductases expressed in yeast. Microbial Cell Factories, 2010, 9, 17. | 1.9 | 64 |
| 154 | Kinetic and chemical characterization of aldehyde oxidation by fungal aryl-alcohol oxidase. Biochemical Journal, 2010, 425, 585-593. | 1.7 | 69 |
| 155 | Induction of Extracellular Hydroxyl Radical Production by White-Rot Fungi through Quinone Redox Cycling. Applied and Environmental Microbiology, 2009, 75, 3944-3953. | 1.4 | 146 |
| 156 | Protein Radicals in Fungal Versatile Peroxidase. Journal of Biological Chemistry, 2009, 284, 7986-7994. | 1.6 | 55 |
| 157 | Enhancing the Production of Hydroxyl Radicals by <i>Pleurotus eryngii</i> via Quinone Redox Cycling for Pollutant Removal. Applied and Environmental Microbiology, 2009, 75, 3954-3962. | 1.4 | 67 |
| 158 | Sterols and lignin in <i>Eucalyptus globulus</i> Labill. wood: Spatial distribution and fungal removal as revealed by microscopy and chemical analyses. Holzforschung, 2009, 63, 362-370. | 0.9 | 16 |
| 159 | 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 10<sup>th</sup> EWLP, Stockholm, Sweden, August 25â€“28, 2008. Holzforschung, 2009, 63, 691-698. | 0.9 | 130 |
| 160 | Aryl-alcohol Oxidase Involved in Lignin Degradation. Journal of Biological Chemistry, 2009, 284, 24840-24847. | 1.6 | 53 |
| 161 | Substrate oxidation sites in versatile peroxidase and other basidiomycete peroxidases. Journal of Experimental Botany, 2009, 60, 441-452. | 2.4 | 237 |
| 162 | Microbial degradation of lignin: how a bulky recalcitrant polymer is efficiently recycled in nature and how we can take advantage of this. Microbial Biotechnology, 2009, 2, 164-177. | 2.0 | 434 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Isolation and structural characterization of the milled-wood lignin from Paulownia fortunei wood. Industrial Crops and Products, 2009, 30, 137-143. | 2.5 | 135 |
| 164 | Effect of culture temperature on the heterologous expression of Pleurotus eryngii versatile peroxidase in Aspergillus hosts. Bioprocess and Biosystems Engineering, 2009, 32, 129-134. | 1.7 | 26 |
| 165 | Isolation and selection of novel basidiomycetes for decolorization of recalcitrant dyes. Folia Microbiologica, 2009, 54, 59-66. | 1.1 | 25 |
| 166 | Microbial and enzymatic control of pitch in the pulp and paper industry. Applied Microbiology and Biotechnology, 2009, 82, 1005-1018. | 1.7 | 91 |
| 167 | Novel structural features in the GMC family of oxidoreductases revealed by the crystal structure of fungal aryl-alcohol oxidase. Acta Crystallographica Section D: Biological Crystallography, 2009, 65, 1196-1205. | 2.5 | 70 |
| 168 | Influence of operation conditions on laccase-mediator removal of sterols from eucalypt pulp. Process Biochemistry, 2009, 44, 1032-1038. | 1.8 | 18 |
| 169 | Enzymatic delignification of plant cell wall: from nature to mill. Current Opinion in Biotechnology, 2009, 20, 348-357. | 3.3 | 271 |
| 170 | Study of a sterol esterase secreted by Ophiostoma piceae: Sequence, model and biochemical properties. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 1099-1106. | 1.1 | 21 |
| 171 | Laccase detoxification of steam-exploded wheat straw for second generation bioethanol. Bioresource Technology, 2009, 100, 6378-6384. | 4.8 | 180 |
| 172 | New oxidase from Bjerkandera arthroconidial anamorph that oxidizes both phenolic and nonphenolic benzyl alcohols. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 689-697. | 1.1 | 36 |
| 173 | Genome, transcriptome, and secretome analysis of wood decay fungus <i>Postia placenta</i> supports unique mechanisms of lignocellulose conversion. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1954-1959. | 3.3 | 530 |
| 174 | Syringyl-type simple plant phenolics as mediating oxidants in laccase catalyzed degradation of lignocellulosic materials: Model compound studies 10th EWLP, Stockholm, Sweden, August 25â€“28, 2008. Holzforschung, 2009, 63, . | 0.9 | 22 |
| 175 | Structural Characterization of the Lignin from Jute (<i>Corchorus capsularis</i>) Fibers. Journal of Agricultural and Food Chemistry, 2009, 57, 10271-10281. | 2.4 | 163 |
| 176 | Escherichia coli expression and in vitro activation of a unique ligninolytic peroxidase that has a catalytic tyrosine residue. Protein Expression and Purification, 2009, 68, 208-214. | 0.6 | 30 |
| 177 | Bioelectrochemical investigations of aryl-alcohol oxidase from Pleurotus eryngii. Journal of Electroanalytical Chemistry, 2008, 618, 83-86. | 1.9 | 8 |
| 178 | Oxidative degradation of model lipids representative for main paper pulp lipophilic extractives by the laccaseâ€“mediator system. Applied Microbiology and Biotechnology, 2008, 80, 211-222. | 1.7 | 31 |
| 179 | Monolignol acylation and lignin structure in some nonwoody plants: A 2D NMR study. Phytochemistry, 2008, 69, 2831-2843. | 1.4 | 197 |
| 180 | Highly Acylated (Acetylated and/or <i>p</i>-Coumaroylated) Native Lignins from Diverse Herbaceous Plants. Journal of Agricultural and Food Chemistry, 2008, 56, 9525-9534. | 2.4 | 172 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Isolation of two laccase genes from the white-rot fungus Pleurotus eryngii and heterologous expression of the pel3 encoded protein. Journal of Biotechnology, 2008, 134, 9-19. | 1.9 | 53 |
| 182 | Site-Directed Mutagenesis of the Catalytic Tryptophan Environment in <i>Pleurotus eryngii</i> Versatile Peroxidase<sup>,</sup>. Biochemistry, 2008, 47, 1685-1695. | 1.2 | 65 |
| 183 | <i>p</i>-Hydroxycinnamic Acids as Natural Mediators for Laccase Oxidation of Recalcitrant Compounds. Environmental Science & Technology, 2008, 42, 6703-6709. | 4.6 | 96 |
| 184 | Structural characterization of milled wood lignins from different eucalypt species. Holzforschung, 2008, 62, 514-526. | 0.9 | 147 |
| 185 | Gene cloning, heterologous expression,<i>in vitro</i>reconstitution and catalytic properties of a versatile peroxidase. Biocatalysis and Biotransformation, 2007, 25, 276-285. | 1.1 | 9 |
| 186 | Immobilization of<i>pycnoporus coccineus</i>laccase on Eupergit C: Stabilization and treatment of olive oil mill wastewaters. Biocatalysis and Biotransformation, 2007, 25, 130-134. | 1.1 | 48 |
| 187 | Microscopy studies reveal delignification and sterol removal from eucalypt kraft pulps by laccaseâ€“HBT. Biocatalysis and Biotransformation, 2007, 25, 251-259. | 1.1 | 8 |
| 188 | Structural modification of eucalypt pulp lignin in a totally chlorine-free bleaching sequence including a laccase-mediator stage. Holzforschung, 2007, 61, 634-646. | 0.9 | 62 |
| 189 | Manganese Oxidation Site inPleurotus eryngiiVersatile Peroxidase:Â A Site-Directed Mutagenesis, Kinetic, and Crystallographic Studyâ€,â€¡. Biochemistry, 2007, 46, 66-77. | 1.2 | 95 |
| 190 | Transformation of Polycyclic Aromatic Hydrocarbons by Laccase Is Strongly Enhanced by Phenolic Compounds Present in Soil. Environmental Science & Technology, 2007, 41, 2964-2971. | 4.6 | 147 |
| 191 | Removal of Lipophilic Extractives from Paper Pulp by Laccase and Lignin-Derived Phenols as Natural Mediators. Environmental Science & Technology, 2007, 41, 4124-4129. | 4.6 | 91 |
| 192 | Lignin Modification duringEucalyptus globulusKraft Pulping Followed by Totally Chlorine-Free Bleaching:Â A Two-Dimensional Nuclear Magnetic Resonance, Fourier Transform Infrared, and Pyrolysisâ˜'Gas Chromatography/Mass Spectrometry Study. Journal of Agricultural and Food Chemistry, 2007, 55, 3477-3490. | 2.4 | 118 |
| 193 | Occurrence of Naturally Acetylated Lignin Units. Journal of Agricultural and Food Chemistry, 2007, 55, 5461-5468. | 2.4 | 173 |
| 194 | Paper pulp delignification using laccase and natural mediators. Enzyme and Microbial Technology, 2007, 40, 1264-1271. | 1.6 | 228 |
| 195 | Composition of non-woody plant lignins and cinnamic acids by Py-GC/MS, Py/TMAH and FT-IR. Journal of Analytical and Applied Pyrolysis, 2007, 79, 39-46. | 2.6 | 167 |
| 196 | Presence of 5-hydroxyguaiacyl units as native lignin constituents in plants as seen by Py-GC/MS. Journal of Analytical and Applied Pyrolysis, 2007, 79, 33-38. | 2.6 | 24 |
| 197 | An anamorph of the white-rot fungus<i>Bjerkandera adusta</i>capable of colonizing and degrading compact disc components. FEMS Microbiology Letters, 2007, 275, 122-129. | 0.7 | 26 |
| 198 | High Redox Potential Peroxidases. , 2007, , 477-488. | | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Enzymatic Removal of Free and Conjugated Sterols Forming Pitch Deposits in Environmentally Sound Bleaching of Eucalypt Paper Pulp. Environmental Science & Technology, 2006, 40, 3416-3422. | 4.6 | 47 |
| 200 | In vitro activation, purification, and characterization of Escherichia coli expressed aryl-alcohol oxidase, a unique H2O2-producing enzyme. Protein Expression and Purification, 2006, 45, 191-199. | 0.6 | 57 |
| 201 | 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. | 2.2 | 25 |
| 202 | Laccase purification and characterization from Trametes trogii isolated in Tunisia: decolorization of textile dyes by the purified enzyme. Enzyme and Microbial Technology, 2006, 39, 141-148. | 1.6 | 201 |
| 203 | Exploring the enzymatic parameters for optimal delignification of eucalypt pulp by laccase-mediator. Enzyme and Microbial Technology, 2006, 39, 1319-1327. | 1.6 | 104 |
| 204 | Main lipophilic extractives in different paper pulp types can be removed using the laccaseâ€“mediator system. Applied Microbiology and Biotechnology, 2006, 72, 845-851. | 1.7 | 54 |
| 205 | Integrating laccaseâ€“mediator treatment into an industrial-type sequence for totally chlorine-free bleaching of eucalypt kraft pulp. Journal of Chemical Technology and Biotechnology, 2006, 81, 1159-1165. | 1.6 | 73 |
| 206 | A Tryptophan Neutral Radical in the Oxidized State of Versatile Peroxidase from Pleurotus eryngii. Journal of Biological Chemistry, 2006, 281, 9517-9526. | 1.6 | 93 |
| 207 | Spectral and catalytic properties of aryl-alcohol oxidase, a fungal flavoenzyme acting on polyunsaturated alcohols. Biochemical Journal, 2005, 389, 731-738. | 1.7 | 79 |
| 208 | Determining the influence of eucalypt lignin composition in paper pulp yield using Py-GC/MS. Journal of Analytical and Applied Pyrolysis, 2005, 74, 110-115. | 2.6 | 157 |
| 209 | Role of Pycnoporus coccineus laccase in the degradation of aromatic compounds in olive oil mill wastewater. Enzyme and Microbial Technology, 2005, 36, 478-486. | 1.6 | 122 |
| 210 | Chemical characterization of residual lignins from eucalypt paper pulps. Journal of Analytical and Applied Pyrolysis, 2005, 74, 116-122. | 2.6 | 68 |
| 211 | Comparison of different fungal enzymes for bleaching high-quality paper pulps. Journal of Biotechnology, 2005, 115, 333-343. | 1.9 | 140 |
| 212 | Versatile Peroxidase Oxidation of High Redox Potential Aromatic Compounds: Site-directed Mutagenesis, Spectroscopic and Crystallographic Investigation of Three Long-range Electron Transfer Pathways. Journal of Molecular Biology, 2005, 354, 385-402. | 2.0 | 248 |
| 213 | The two manganese peroxidases Pr-MnP2 and Pr-MnP3 of Phlebia radiata, a lignin-degrading basidiomycete, are phylogenetically and structurally divergent. Fungal Genetics and Biology, 2005, 42, 403-419. | 0.9 | 81 |
| 214 | Lignin-Derived Compounds as Efficient Laccase Mediators for Decolorization of Different Types of Recalcitrant Dyes. Applied and Environmental Microbiology, 2005, 71, 1775-1784. | 1.4 | 508 |
| 215 | Biodegradation of lignocellulosics: microbial, chemical, and enzymatic aspects of the fungal attack of lignin. International Microbiology, 2005, 8, 195-204. | 1.1 | 673 |
| 216 | Degradation of phenolic and non-phenolic aromatic pollutants by four Pleurotus species: the role of laccase and versatile peroxidase. Soil Biology and Biochemistry, 2004, 36, 909-916. | 4.2 | 129 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 217 | Effect of pH on the stability of Pleurotus eryngii versatile peroxidase during heterologous production in Emericella nidulans. Bioprocess and Biosystems Engineering, 2004, 26, 287-293. | 1.7 | 27 |
| 218 | Identifying acetylated lignin units in non-wood fibers using pyrolysis-gas chromatography/mass spectrometry. Rapid Communications in Mass Spectrometry, 2004, 18, 1181-1185. | 0.7 | 88 |
| 219 | Isolation of high-purity residual lignins from eucalypt paper pulps by cellulase and proteinase treatments followed by solvent extraction. Enzyme and Microbial Technology, 2004, 35, 173-181. | 1.6 | 38 |
| 220 | Efficient bleaching of non-wood high-quality paper pulp using laccase-mediator system. Enzyme and Microbial Technology, 2004, 35, 113-120. | 1.6 | 164 |
| 221 | Hydrolysis of sterol esters by an esterase from Ophiostoma piceae: application to pitch control in pulping of Eucalyptus globulus wood. International Journal of Biotechnology, 2004, 6, 367. | 1.2 | 12 |
| 222 | NMR study of manganese(II) binding by a new versatile peroxidase from the white-rot fungus Pleurotus eryngii. Journal of Biological Inorganic Chemistry, 2003, 8, 751-760. | 1.1 | 24 |
| 223 | Optimization of a Laccase-Mediator Stage for TCF Bleaching of Flax Pulp. Holzforschung, 2003, 57, 513-519. | 0.9 | 58 |
| 224 | 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.. Progress in Biotechnology, 2002, , 213-222. | 0.2 | 15 |
| 225 | Production of New Unsaturated Lipids during Wood Decay by Ligninolytic Basidiomycetes. Applied and Environmental Microbiology, 2002, 68, 1344-1350. | 1.4 | 69 |
| 226 | Lignin attack during eucalypt wood decay by selected basidiomycetes: a Py-GC/MS study. Journal of Analytical and Applied Pyrolysis, 2002, 64, 421-431. | 2.6 | 63 |
| 227 | Identification of a novel series of alkylitaconic acids in wood cultures ofCeriporiopsis subvermisporaby gas chromatography/mass spectrometry. Rapid Communications in Mass Spectrometry, 2002, 16, 62-68. | 0.7 | 10 |
| 228 | Molecular biology and structure-function of lignin-degrading heme peroxidases. Enzyme and Microbial Technology, 2002, 30, 425-444. | 1.6 | 358 |
| 229 | Expression of Pleurotus eryngii versatile peroxidase in Escherichia coli and optimisation of in vitro folding. Enzyme and Microbial Technology, 2002, 30, 518-524. | 1.6 | 86 |
| 230 | Production, isolation and characterization of a sterol esterase from Ophiostoma piceae. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2002, 1599, 28-35. | 1.1 | 46 |
| 231 | Induction, Isolation, and Characterization of Two Laccases from the White Rot Basidiomycete Coriolopsis rigida. Applied and Environmental Microbiology, 2002, 68, 1534-1540. | 1.4 | 112 |
| 232 | Fungal bioturbation paths in a compact disk. Die Naturwissenschaften, 2001, 88, 351-354. | 0.6 | 13 |
| 233 | Compositional changes of wheat lignin by a fungal peroxidase analyzed by pyrolysis-GC-MS. Journal of Analytical and Applied Pyrolysis, 2001, 58-59, 413-423. | 2.6 | 27 |
| 234 | Studies on wheat lignin degradation by Pleurotus species using analytical pyrolysis. Journal of Analytical and Applied Pyrolysis, 2001, 58-59, 401-411. | 2.6 | 61 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Identification of residual lignin markers in eucalypt kraft pulps by Pyâ€“GC/MS. Journal of Analytical and Applied Pyrolysis, 2001, 58-59, 425-439. | 2.6 | 79 |
| 236 | Pyâ€“GC/MS study of Eucalyptus globulus wood treated with different fungi. Journal of Analytical and Applied Pyrolysis, 2001, 58-59, 441-452. | 2.6 | 70 |
| 237 | Oxidation of hydroquinones by the versatile ligninolytic peroxidase fromPleurotus eryngii. FEBS Journal, 2001, 268, 4787-4793. | 0.2 | 59 |
| 238 | Production of lipolytic enzymes in batch cultures ofOphiostoma piceae. Journal of Chemical Technology and Biotechnology, 2001, 76, 991-996. | 1.6 | 7 |
| 239 | Expression of Pleurotus eryngii aryl-alcohol oxidase in Aspergillus nidulans: purification and characterization of the recombinant enzyme. BBA - Proteins and Proteomics, 2001, 1546, 107-113. | 2.1 | 33 |
| 240 | The biotechnological control of pitch in paper pulp manufacturing. Trends in Biotechnology, 2001, 19, 340-348. | 4.9 | 104 |
| 241 | A new versatile peroxidase from Pleurotus. Biochemical Society Transactions, 2001, 29, 116-22. | 1.6 | 18 |
| 242 | The cloning of a new peroxidase found in lignocellulose cultures ofPleurotus eryngiiand sequence comparison with other fungal peroxidases. FEMS Microbiology Letters, 2000, 191, 37-43. | 0.7 | 55 |
| 243 | Aryl-alcohol oxidase protein sequence: a comparison with glucose oxidase and other FAD oxidoreductases. BBA - Proteins and Proteomics, 2000, 1481, 202-208. | 2.1 | 50 |
| 244 | Biochemical characterization, cDNA cloning and protein crystallization of aryl-alcohol oxidase from Pleurotus pulmonarius. BBA - Proteins and Proteomics, 2000, 1476, 129-138. | 2.1 | 29 |
| 245 | Oxygen Activation during Oxidation of Methoxyhydroquinones by Laccase from <i>Pleurotus eryngii</i>. Applied and Environmental Microbiology, 2000, 66, 170-175. | 1.4 | 102 |
| 246 | Production of Hydroxyl Radical by the Synergistic Action of Fungal Laccase and Aryl Alcohol Oxidase. Archives of Biochemistry and Biophysics, 2000, 383, 142-147. | 1.4 | 96 |
| 247 | Fungal Pretreatment ofEucalyptusWood Can Strongly Decrease the Amount of Lipophilic Extractives during Chlorine Free Kraft Pulping. Environmental Science & Technology, 2000, 34, 3705-3709. | 4.6 | 25 |
| 248 | Fungal screening for biological removal of extractives from Eucalyptus globulus wood. Canadian Journal of Botany, 2000, 77, 1513-1522. | 1.2 | 6 |
| 249 | Southern blot screening for lignin peroxidase and aryl-alcohol oxidase genes in 30 fungal species. Journal of Biotechnology, 2000, 83, 245-251. | 1.9 | 36 |
| 250 | Time course of fungal removal of lipophilic extractives from Eucalyptus globulus wood. Journal of Biotechnology, 2000, 84, 119-126. | 1.9 | 42 |
| 251 | Different fungal manganese-oxidizing peroxidases: a comparison between Bjerkandera sp. and Phanerochaete chrysosporium. Journal of Biotechnology, 2000, 77, 235-245. | 1.9 | 87 |
| 252 | Description of a Versatile Peroxidase Involved in the Natural Degradation of Lignin That Has Both Manganese Peroxidase and Lignin Peroxidase Substrate Interaction Sites. Journal of Biological Chemistry, 1999, 274, 10324-10330. | 1.6 | 326 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | Transformation of wheat straw in the course of solid-state fermentation by four ligninolytic basidiomycetes. Enzyme and Microbial Technology, 1999, 25, 605-612. | 1.6 | 65 |
| 254 | Solid-state spectroscopic analysis of lignins from several Austral hardwoods. Solid State Nuclear Magnetic Resonance, 1999, 15, 41-48. | 1.5 | 74 |
| 255 | Molecular characterization of a novel peroxidase isolated from the ligninolytic fungus Pleurotus eryngii. Molecular Microbiology, 1999, 31, 223-235. | 1.2 | 203 |
| 256 | Pyrolysis-gas chromatography/Mass spectrometry analysis of phenolic and etherified units in natural and industrial lignins. Rapid Communications in Mass Spectrometry, 1999, 13, 630-636. | 0.7 | 43 |
| 257 | Molecular cloning of aryl-alcohol oxidase from the fungus Pleurotus eryngii, an enzyme involved in lignin degradation. Biochemical Journal, 1999, 341, 113. | 1.7 | 19 |
| 258 | Molecular cloning of aryl-alcohol oxidase from the fungus Pleurotus eryngii, an enzyme involved in lignin degradation. Biochemical Journal, 1999, 341, 113-117. | 1.7 | 29 |
| 259 | Fungal Degradation of Lipophilic Extractives in Eucalyptus globulus Wood. Applied and Environmental Microbiology, 1999, 65, 1367-1371. | 1.4 | 51 |
| 260 | Fungal screening for biological removal of extractives from <i>Eucalyptus globulus</i> wood. Canadian Journal of Botany, 1999, 77, 1513-1522. | 1.2 | 22 |
| 261 | A study on reducing substrates of manganese-oxidizing peroxidases fromPleurotus eryngiiandBjerkandera adusta. FEBS Letters, 1998, 428, 141-146. | 1.3 | 188 |
| 262 | Electron and Fluorescence Microscopy of Extracellular Glucan and Aryl-Alcohol Oxidase during Wheat-Straw Degradation by <i>Pleurotus eryngii</i>. Applied and Environmental Microbiology, 1998, 64, 325-332. | 1.4 | 28 |
| 263 | Quinone Redox Cycling in the Ligninolytic FungusPleurotus eryngiiLeading to Extracellular Production of Superoxide Anion Radical. Archives of Biochemistry and Biophysics, 1997, 339, 190-199. | 1.4 | 124 |
| 264 | Biochemical and molecular characterization of a manganese peroxidase isoenzyme from Pleurotus ostreatus. BBA - Proteins and Proteomics, 1997, 1339, 23-30. | 2.1 | 100 |
| 265 | Induction and Characterization of Laccase in the Ligninolytic Fungus Pleurotus eryngii. Current Microbiology, 1997, 34, 1-5. | 1.0 | 168 |
| 266 | Pyrolysis products as markers in the chemical characterization of paperboards from waste paper and wheat straw pulps. Bioresource Technology, 1997, 60, 51-58. | 4.8 | 18 |
| 267 | A 13C CP/MAS NMR evaluation of the structural changes in wheat straw subjected to different chemical and biological pulping conditions. Bioresource Technology, 1997, 60, 245-249. | 4.8 | 3 |
| 268 | Demonstration ofIn Situ Oxidative Degradation of Lignin Side Chains by Two White-rot Fungi Using Analytical Pyrolysis of Methylated Wheat Straw. Rapid Communications in Mass Spectrometry, 1997, 11, 331-334. | 0.7 | 18 |
| 269 | Absolute quantitation of lignin pyrolysis products using an internal standard. Journal of Chromatography A, 1997, 773, 227-232. | 1.8 | 60 |
| 270 | Purification and Catalytic Properties of Two Manganese Peroxidase Isoenzymes from Pleurotus eryngii. FEBS Journal, 1996, 237, 424-432. | 0.2 | 323 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 271 | Matrix-assisted Laser Desorption/Ionization Mass Spectrometry of Natural and Synthetic Lignin. Rapid Communications in Mass Spectrometry, 1996, 10, 1144-1147. | 0.7 | 29 |
| 272 | Structural characterization of extracellular polysaccharides produced by fungi from the genus Pleurotus. Carbohydrate Research, 1996, 281, 143-154. | 1.1 | 136 |
| 273 | Use of analytical pyrolysis for the characterization of paper industry effluents. Analytica Chimica Acta, 1996, 335, 245-251. | 2.6 | 5 |
| 274 | Comparative analysis of wheat straw paperboards prepared after biomechanical and semichemical pulping. Bioresource Technology, 1996, 57, 217-227. | 4.8 | 14 |
| 275 | Screening of 68 species of basidiomycetes for enzymes involved in lignin degradation. Mycological Research, 1995, 99, 37-42. | 2.5 | 159 |
| 276 | Hyphal-sheath polysaccharides in fungal deterioration. Science of the Total Environment, 1995, 167, 315-328. | 3.9 | 55 |
| 277 | Studies on homoveratric acid transformation by the ligninolytic fungus Pleurotus eryngii. Applied Microbiology and Biotechnology, 1994, 41, 500-504. | 1.7 | 27 |
| 278 | Hydrogen-peroxide-producing system ofPleurotus eryngii involving the extracellular enzyme aryl-alcohol oxidase. Applied Microbiology and Biotechnology, 1994, 41, 465-470. | 1.7 | 60 |
| 279 | Preferential degradation of phenolic lignin units by two white rot fungi. Applied and Environmental Microbiology, 1994, 60, 4509-4516. | 1.4 | 92 |
| 280 | In vitro decay of Aextoxicon punctatum and Fagus sylvatica woods by white and brown-rot fungi. Wood Science and Technology, 1993, 27, 295-307. | 1.4 | 23 |
| 281 | Comparative study of fractions from alkaline extraction of wheat straw through chemical degradation, analytical pyrolysis, and spectroscopic techniques. Journal of Agricultural and Food Chemistry, 1993, 41, 1621-1626. | 2.4 | 69 |
| 282 | Ultrastructural Aspects of Fungal Delignification of Chilean Woods by<i>Ganoderma australe</i>and<i>Phlebia chrysocrea.</i>A Study of Natural and<i>In Vitro</i>Degradation. Holzforschung, 1992, 46, 1-8. | 0.9 | 33 |
| 283 | Changes in the polydispersity of colloidal lignins by ligninolytic basidiomycetes. Journal of Biotechnology, 1992, 25, 333-339. | 1.9 | 5 |
| 284 | CPMAS carbon-13 NMR study of lignin preparations from wheat straw transformed by five lignocellulose-degrading fungi. Journal of Agricultural and Food Chemistry, 1992, 40, 1297-1302. | 2.4 | 49 |
| 285 | Substrate specificity and properties of the aryl-alcohol oxidase from the ligninolytic fungus Pleurotus eryngii. FEBS Journal, 1992, 209, 603-611. | 0.2 | 227 |
| 286 | Fatty acid composition and taxonomic status of Ganoderma australe from southern chile. Mycological Research, 1991, 95, 782-784. | 2.5 | 19 |
| 287 | Screening of yeasts isolated from decayed wood for lignocellulose-degrading enzyme activities. Mycological Research, 1991, 95, 1299-1302. | 2.5 | 26 |
| 288 | An analytical pyrolysis mass spectrometric study of Eucryphia cordifolia wood decayed by white-rot and brown-rot fungi. Journal of Analytical and Applied Pyrolysis, 1991, 19, 175-191. | 2.6 | 56 |

| # | Article | IF | Citations |
|---|---|---|---|
| 289 | Chemical transformation of wheat straw constituents after solid-state fermentation with selected lignocellulose-degrading fungi. Biomass and Bioenergy, 1991, 1, 261-266. | 2.9 | 39 |
| 290 | p-Hydroxyphenyl:Guaiacyl:Syringyl Ratio of Lignin in Some Austral Hardwoods Estimated by CuO-Oxidation and Solid-State NMR. Holzforschung, 1991, 45, 279-284. | 0.9 | 21 |
| 291 | Kinetics of wheat straw solid-state fermentation with Trametes versicolor and Pleurotus ostreatus ? lignin and polysaccharide alteration and production of related enzymatic activities. Applied Microbiology and Biotechnology, 1991, 35, 817. | 1.7 | 83 |
| 292 | Solid-State NMR Studies of Lignin and Plant Polysaccharide Degradation by Fungi. Holzforschung, 1991, 45, 49-54. | 0.9 | 47 |
| 293 | Production of hydrogen peroxide by aryl-alcohol oxidase from the ligninolytic fungusPleurotus eryngii. Applied Microbiology and Biotechnology, 1990, 32, 465-469. | 1.7 | 130 |
| 294 | Substrate-dependent degradation patterns in the decay of wheat straw and beech wood by ligninolytic fungi. Applied Microbiology and Biotechnology, 1990, 33, 481. | 1.7 | 53 |
| 295 | A new Botryoascus from the air of a poultry farm. Canadian Journal of Botany, 1990, 68, 1738-1740. | 1.2 | 4 |
| 296 | A study of yeasts during the delignification and fungal transformation of wood into cattle feed in Chilean rain forest. Antonie Van Leeuwenhoek, 1989, 55, 221-236. | 0.7 | 49 |
| 297 | Contribution by pigmented fungi to P-type humic acid formation in two forest soils. Soil Biology and Biochemistry, 1989, 21, 23-28. | 4.2 | 29 |
| 298 | Extracellular (1 Ã¥ 3),(1 â†’ 6)-linked Î²-d-glucan produced by the soil fungus Ulocladium atrum. Soil Biology and Biochemistry, 1986, 18, 469-474. | 4.2 | 5 |
| 299 | Degradative oxidation products of the melanin of Ulocladium atrum. Soil Biology and Biochemistry, 1985, 17, 723-726. | 4.2 | 7 |
| 300 | Production of brown and green humic-like substances by Ulocladium atrum. Soil Biology and Biochemistry, 1985, 17, 257-259. | 4.2 | 24 |
| 301 | Rhizosphaera oudemansii (Sphaeropsidales) associated with a needle cast of Spanish Abies pinsapo. Mycopathologia, 1983, 83, 175-182. | 1.3 | 5 |
| 302 | Taxonomic relationships of Geotrichum flavo-brunneum. Antonie Van Leeuwenhoek, 1982, 48, 57-59. | 0.7 | 0 |
| 303 | Scanning electron microscopy of Penicillium conidia. Antonie Van Leeuwenhoek, 1982, 48, 245-255. | 0.7 | 8 |
| 304 | Four new species of Penicillium isolated from different substrata. Mycopathologia, 1981, 74, 163-171. | 1.3 | 8 |
| 305 | Four new species of Penicillium isolated from the air. Mycopathologia, 1980, 72, 27-34. | 1.3 | 3 |
| 306 | Some new species of Penicillium recovered from the atmosphere in Madrid and from other substrata. Mycopathologia, 1980, 72, 181-191. | 1.3 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 307 | Penicillium fagi sp. nov., isolated from beech leaves. Mycopathologia, 1978, 63, 57-59. | 1.3 | 14 |
| 308 | Three new species of penicillium. Mycopathologia, 1978, 66, 77-82. | 1.3 | 8 |
| 309 | Microfungal biomass and number of propagules in an andosol. Soil Biology and Biochemistry, 1978, 10, 529-531. | 4.2 | 7 |
| 310 | Purification and characterization of peroxidases from the dye-decolorizing fungus Bjerkandera adusta. , 0, . | | 5 |