Martin Hofrichter

List of Publications by Year in Descending Order

179 papers	9,389 citations	54 h-index	90 g-index
194 ext. papers	10,508 ext. citations	4.9 avg, IF	6.25 L-index

#	Paper	IF	Citations
179	Broadening the Biocatalytic Toolbox-Screening and Expression of New Unspecific Peroxygenases.. *Antioxidants*, **2022**, 11,	7.1	2
178	Peroxide-Mediated Oxygenation of Organic Compounds by Fungal Peroxygenases.. *Antioxidants*, **2022**, 11,	7.1	6
177	Enzymatic Epoxidation of Long-Chain Terminal Alkenes by Fungal Peroxygenases.. *Antioxidants*, **2022**, 11,	7.1	1
176	Disentangling the importance of space and host tree for the beta-diversity of beetles, fungi, and bacteria: Lessons from a large dead-wood experiment. *Biological Conservation*, **2022**, 268, 109521	6.2	1
175	Synthesis of Indigo-Dyes from Indole Derivatives by Unspecific Peroxygenases and Their Application for In-Situ Dyeing. *Catalysts*, **2021**, 11, 1495	4	1
174	Regioselective and Stereoselective Epoxidation of n-3 and n-6 Fatty Acids by Fungal Peroxygenases.. *Antioxidants*, **2021**, 10,	7.1	4
173	Directed evolution of unspecific peroxygenase in organic solvents. *Biotechnology and Bioengineering*, **2021**, 118, 3002-3014	4.9	7
172	Fungal Peroxygenases A Versatile Tool for Biocatalysis **2021**, 260-280		2
171	Amplicon Sequencing-Based Bipartite Network Analysis Confirms a High Degree of Specialization and Modularity for Fungi and Prokaryotes in Deadwood. *MSphere*, **2021**, 6,	5	3
170	Bioconversion of Lignocellulosic Materials with the Contribution of a Multifunctional GH78 Glycoside Hydrolase from to Release Aromatic Fragments and Carbohydrates. *Journal of Microbiology and Biotechnology*, **2021**, 31, 1438-1445	3.3	
169	Functional Expression of Two Unusual Acidic Peroxygenases from in Yeasts by Adopting Evolved Secretion Mutations. *Applied and Environmental Microbiology*, **2021**, 87, e0087821	4.8	4
168	Biocatalytic Syntheses of Antiplatelet Metabolites of the Thienopyridines Clopidogrel and Prasugrel Using Fungal Peroxygenases. *Journal of Fungi (Basel, Switzerland)*, **2021**, 7,	5.6	1
167	Unspezifische Peroxygenasen Oxyfunktionalisierung außerhalb der Pilzhyphe. *BioSpektrum*, **2020**, 26, 103-106	0.1	1
166	Fungal Peroxygenases: A Phylogenetically Old Superfamily of Heme Enzymes with Promiscuity for Oxygen Transfer Reactions. *Grand Challenges in Biology and Biotechnology*, **2020**, 369-403	2.4	32
165	Multilocus phylogeny- and fruiting feature-assisted delimitation of European from a new Asian species complex and related species. *Mycological Progress*, **2020**, 19, 1001-1016	1.9	7
164	Fatty-Acid Oxygenation by Fungal Peroxygenases: From Computational Simulations to Preparative Regio- and Stereoselective Epoxidation. *ACS Catalysis*, **2020**, 10, 13584-13595	13.1	13
163	Selective Oxygenation of Ionones and Damascones by Fungal Peroxygenases. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 5375-5383	5.7	5

162	Draft Genome Sequence of the Wood-Staining Ascomycete DSM 107184. *Microbiology Resource Announcements*, **2019**, 8,	1.3	1
161	Genome and secretome of Chondrostereum purpureum correspond to saprotrophic and phytopathogenic life styles. *PLoS ONE*, **2019**, 14, e0212769	3.7	11
160	Molecular fungal community and its decomposition activity in sapwood and heartwood of 13 temperate European tree species. *PLoS ONE*, **2019**, 14, e0212120	3.7	32
159	Selective synthesis of 4-hydroxyisophorone and 4-ketoisophorone by fungal peroxygenases. *Catalysis Science and Technology*, **2019**, 9, 1398-1405	5.5	21
158	Draft Genome Sequence of DSM 108379, a Ubiquitous Fungus on Hardwood. *Microbiology Resource Announcements*, **2019**, 8,	1.3	2
157	Increasing N deposition impacts neither diversity nor functions of deadwood-inhabiting fungal communities, but adaptation and functional redundancy ensure ecosystem function. *Environmental Microbiology*, **2018**, 20, 1693-1710	5.2	15
156	Selective Synthesis of the Human Drug Metabolite 5?-Hydroxypropranolol by an Evolved Self-Sufficient Peroxygenase. *ACS Catalysis*, **2018**, 8, 4789-4799	13.1	46
155	Self-sustained enzymatic cascade for the production of 2,5-furandicarboxylic acid from 5-methoxymethylfurfural. *Biotechnology for Biofuels*, **2018**, 11, 86	7.8	35
154	Selective synthesis of the resveratrol analogue 4,4?-dihydroxy-trans-stilbene and stilbenoids modification by fungal peroxygenases. *Catalysis Science and Technology*, **2018**, 8, 2394-2401	5.5	21
153	Side chain removal from corticosteroids by unspecific peroxygenase. *Journal of Inorganic Biochemistry*, **2018**, 183, 84-93	4.2	22
152	Enzymatic Preparation of 2,5-Furandicarboxylic Acid (FDCA)-A Substitute of Terephthalic Acid-By the Joined Action of Three Fungal Enzymes. *Microorganisms*, **2018**, 6,	4.9	49
151	Draft Genome Sequence of the Sordariomycete () CBS 245.38. *Genome Announcements*, **2018**, 6,		8
150	Bacteria inhabiting deadwood of 13 tree species are heterogeneously distributed between sapwood and heartwood. *Environmental Microbiology*, **2018**, 20, 3744-3756	5.2	26
149	The genome sequence of the commercially cultivated mushroom Agrocybe aegerita reveals a conserved repertoire of fruiting-related genes and a versatile suite of biopolymer-degrading enzymes. *BMC Genomics*, **2018**, 19, 48	4.5	34
148	Draft Genome Sequence of Scytalidium lignicola DSM 105466, a Ubiquitous Saprotrophic Fungus. *Microbiology Resource Announcements*, **2018**, 7,	1.3	2
147	Determinants of Deadwood-Inhabiting Fungal Communities in Temperate Forests: Molecular Evidence From a Large Scale Deadwood Decomposition Experiment. *Frontiers in Microbiology*, **2018**, 9, 2120	5.7	25
146	Structural Insights into the Substrate Promiscuity of a Laboratory-Evolved Peroxygenase. *ACS Chemical Biology*, **2018**, 13, 3259-3268	4.9	25
145	A Peroxygenase from Chaetomium globosum Catalyzes the Selective Oxygenation of Testosterone. *ChemBioChem*, **2017**, 18, 563-569	3.8	44

144	Wood decay rates of 13 temperate tree species in relation to wood properties, enzyme activities and organismic diversities. *Forest Ecology and Management*, **2017**, 391, 86-95	3.9	86
143	Trophic level, successional age and trait matching determine specialization of deadwood-based interaction networks of saproxylic beetles. *Proceedings of the Royal Society B: Biological Sciences*, **2017**, 284,	4.4	25
142	Oxidoreductases on their way to industrial biotransformations. *Biotechnology Advances*, **2017**, 35, 815-831	11.8	150
141	Fatty Acid Chain Shortening by a Fungal Peroxygenase. *Chemistry - A European Journal*, **2017**, 23, 16985-16989	5.6	28
140	Opening the s-triazine ring and biuret hydrolysis during conversion of atrazine by Frankia sp. strain Eul1c. *International Biodeterioration and Biodegradation*, **2017**, 117, 14-21	4.8	5
139	Draft Genome Sequence of the Wood-Degrading Ascomycete DSM 104547. *Genome Announcements*, **2017**, 5,		2
138	Fungal Unspecific Peroxygenases Oxidize the Majority of Organic EPA Priority Pollutants. *Frontiers in Microbiology*, **2017**, 8, 1463	5.7	38
137	Fungal biomass and extracellular enzyme activities in coarse woody debris of 13 tree species in the early phase of decomposition. *Forest Ecology and Management*, **2016**, 378, 181-192	3.9	33
136	Life in leaf litter: novel insights into community dynamics of bacteria and fungi during litter decomposition. *Molecular Ecology*, **2016**, 25, 4059-74	5.7	173
135	Exploring the catalase activity of unspecific peroxygenases and the mechanism of peroxide-dependent heme destruction. *Journal of Molecular Catalysis B: Enzymatic*, **2016**, 134, 238-246		31
134	Dynamics of fungal community composition, decomposition and resulting deadwood properties in logs of Fagus sylvatica, Picea abies and Pinus sylvestris. *Forest Ecology and Management*, **2016**, 382, 129-142	3.9	31
133	Draft Genome Sequence of the Chloroperoxidase-Producing Fungus Caldariomyces fumago Woronichin DSM1256. *Genome Announcements*, **2016**, 4,		7
132	Are correlations between deadwood fungal community structure, wood physico-chemical properties and lignin-modifying enzymes stable across different geographical regions?. *Fungal Ecology*, **2016**, 22, 98-105	4.1	31
131	Patterns of laccase and peroxidases in coarse woody debris of Fagus sylvatica, Picea abies and Pinus sylvestris and their relation to different wood parameters. *European Journal of Forest Research*, **2016**, 135, 109-124	2.7	16
130	Molecular determinants for selective C25-hydroxylation of vitamins D2 and D3 by fungal peroxygenases. *Catalysis Science and Technology*, **2016**, 6, 288-295	5.5	27
129	Degradation of 4-nitrophenol by the white-rot polypore Trametes versicolor. *International Biodeterioration and Biodegradation*, **2016**, 107, 174-179	4.8	19
128	Linking molecular deadwood-inhabiting fungal diversity and community dynamics to ecosystem functions and processes in Central European forests. *Fungal Diversity*, **2016**, 77, 367-379	17.6	82
127	Synthesis of 1-Naphthol by a Natural Peroxygenase Engineered by Directed Evolution. *ChemBioChem*, **2016**, 17, 341-9	3.8	64

126	Peroxygenase-katalysierte Oxyfunktionalisierung angetrieben durch Methanoloxidation. *Angewandte Chemie*, **2016**, 128, 809-812	3.6	29
125	Removal of Phenol by Immobilization of Trametes versicolor in Silica/Alginate Fungus Biocomposites and Loofa Sponge. *Clean - Soil, Air, Water*, **2016**, 44, 180-188	1.6	9
124	Peroxygenase-Catalyzed Oxyfunctionalization Reactions Promoted by the Complete Oxidation of Methanol. *Angewandte Chemie - International Edition*, **2016**, 55, 798-801	16.4	96
123	Effects of forest management practices in temperate beech forests on bacterial and fungal communities involved in leaf litter degradation. *Microbial Ecology*, **2015**, 69, 905-13	4.4	35
122	One-pot synthesis of human metabolites of SAR548304 by fungal peroxygenases. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 4324-4332	3.4	20
121	The ascomycete Xylaria polymorpha produces an acetyl esterase that solubilises beech wood material to release water-soluble lignin fragments **2015**, 58, 415-421		3
120	Heme-thiolate ferryl of aromatic peroxygenase is basic and reactive. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 3686-91	11.5	61
119	Immobilization of unspecific peroxygenases (EC 1.11.2.1) in PVA/PEG gel and hollow fiber modules. *Biochemical Engineering Journal*, **2015**, 98, 144-150	4.2	20
118	Oxidation and nitration of mononitrophenols by a DyP-type peroxidase. *Archives of Biochemistry and Biophysics*, **2015**, 574, 86-92	4.1	11
117	Fungal unspecific peroxygenases: heme-thiolate proteins that combine peroxidase and cytochrome p450 properties. *Advances in Experimental Medicine and Biology*, **2015**, 851, 341-68	3.6	81
116	Steroid hydroxylation by basidiomycete peroxygenases: a combined experimental and computational study. *Applied and Environmental Microbiology*, **2015**, 81, 4130-42	4.8	27
115	The toolbox of Auricularia auricula-judae dye-decolorizing peroxidase - Identification of three new potential substrate-interaction sites. *Archives of Biochemistry and Biophysics*, **2015**, 574, 75-85	4.1	30
114	5-hydroxymethylfurfural conversion by fungal aryl-alcohol oxidase and unspecific peroxygenase. *FEBS Journal*, **2015**, 282, 3218-29	5.7	105
113	Bioremedation of Oil and Oil Products Bacterial Species of the Genus Pseudomonas. *Eurasian Chemico-Technological Journal*, **2015**, 12, 157	0.8	2
112	Uncoupling of microbial community structure and function in decomposing litter across beech forest ecosystems in Central Europe. *Scientific Reports*, **2014**, 4, 7014	4.9	42
111	Oxidations catalyzed by fungal peroxygenases. *Current Opinion in Chemical Biology*, **2014**, 19, 116-25	9.7	171
110	Optimization of a biocatalytic process to gain (R)-1-phenylethanol by applying the software tool Sabento for ecological assessment during the early stages of development. *Journal of Molecular Catalysis B: Enzymatic*, **2014**, 103, 36-40		3
109	Enzymatic one-pot conversion of cyclohexane into cyclohexanone: Comparison of four fungal peroxygenases. *Journal of Molecular Catalysis B: Enzymatic*, **2014**, 103, 47-51		34

108	Heterologous expression and physicochemical characterization of a fungal dye-decolorizing peroxidase from Auricularia auricula-judae. *Protein Expression and Purification*, **2014**, 103, 28-37	2	30
107	Search, engineering, and applications of new oxidative biocatalysts. *Biofuels, Bioproducts and Biorefining*, **2014**, 8, 819-835	5.3	15
106	Degradation of atrazine by Frankia alni ACN14a: gene regulation, dealkylation, and dechlorination. *Applied Microbiology and Biotechnology*, **2014**, 98, 6125-35	5.7	22
105	Directed evolution of unspecific peroxygenase from Agrocybe aegerita. *Applied and Environmental Microbiology*, **2014**, 80, 3496-507	4.8	114
104	Phenol oxidation by DyP-type peroxidases in comparison to fungal and plant peroxidases. *Journal of Molecular Catalysis B: Enzymatic*, **2014**, 103, 41-46		39
103	Formation of naphthalene hydrates in the enzymatic conversion of 1,2-dihydronaphthalene by two fungal peroxygenases and subsequent naphthalene formation. *Journal of Molecular Catalysis B: Enzymatic*, **2014**, 103, 56-60		6
102	Widespread occurrence of expressed fungal secretory peroxidases in forest soils. *PLoS ONE*, **2014**, 9, e95557	3.7	71
101	Biochemical and molecular characterization of an atypical manganese peroxidase of the litter-decomposing fungus Agrocybe praecox. *Fungal Genetics and Biology*, **2014**, 72, 131-136	3.9	15
100	Influence of different forest system management practices on leaf litter decomposition rates, nutrient dynamics and the activity of ligninolytic enzymes: a case study from central European forests. *PLoS ONE*, **2014**, 9, e93700	3.7	42
99	Benzene oxygenation and oxidation by the peroxygenase of Agrocybe aegerita. *AMB Express*, **2013**, 3, 5	4.1	32
98	Driving force for oxygen-atom transfer by heme-thiolate enzymes. *Angewandte Chemie - International Edition*, **2013**, 52, 9238-41	16.4	45
97	Radical formation on a conserved tyrosine residue is crucial for DyP activity. *Archives of Biochemistry and Biophysics*, **2013**, 537, 161-7	4.1	23
96	Preparation of labeled human drug metabolites and drug-drug interaction-probes with fungal peroxygenases. *Journal of Labelled Compounds and Radiopharmaceuticals*, **2013**, 56, 513-9	1.9	13
95	Structural basis of substrate conversion in a new aromatic peroxygenase: cytochrome P450 functionality with benefits. *Journal of Biological Chemistry*, **2013**, 288, 34767-76	5.4	95
94	The secretome of Trametes versicolor grown on tomato juice medium and purification of the secreted oxidoreductases including a versatile peroxidase. *Journal of Biotechnology*, **2013**, 168, 15-23	3.7	27
93	Depolymerization and solubilization of chemically pretreated powder river basin subbituminous coal by manganese peroxidase (MnP) from Bjerkandera adusta. *Fuel*, **2013**, 112, 295-301	7.1	26
92	Epoxidation of linear, branched and cyclic alkenes catalyzed by unspecific peroxygenase. *Enzyme and Microbial Technology*, **2013**, 52, 370-6	3.8	50
91	Substrate oxidation by dye-decolorizing peroxidases (DyPs) from wood- and litter-degrading agaricomycetes compared to other fungal and plant heme-peroxidases. *Applied Microbiology and Biotechnology*, **2013**, 97, 5839-49	5.7	83

90	Experimental approach to follow the spatiotemporal wood degradation in fungal microcosms. *Biotechnology Journal*, **2013**, 8, 127-32	5.6	7
89	First crystal structure of a fungal high-redox potential dye-decolorizing peroxidase: substrate interaction sites and long-range electron transfer. *Journal of Biological Chemistry*, **2013**, 288, 4095-102	5.4	72
88	Driving Force for Oxygen-Atom Transfer by Heme-Thiolate Enzymes. *Angewandte Chemie*, **2013**, 125, 9408-9411	3.6	6
87	Can peroxygenase and microperoxidase substitute cytochrome P450 in biosensors **2013**, 197-224		
86	The aromatic peroxygenase from Marasmius rutola--a new enzyme for biosensor applications. *Analytical and Bioanalytical Chemistry*, **2012**, 402, 405-12	4.4	11
85	Stereoselective benzylic hydroxylation of alkylbenzenes and epoxidation of styrene derivatives catalyzed by the peroxygenase of Agrocybe aegerita. *Green Chemistry*, **2012**, 14, 440-446	10	82
84	Regio- and Stereoselective Hydroxylation **2012**, 129-162		1
83	Detection and kinetic characterization of a highly reactive heme-thiolate peroxygenase compound I. *Journal of the American Chemical Society*, **2012**, 134, 12897-900	16.4	103
82	A spectrophotometric assay for the detection of fungal peroxygenases. *Analytical Biochemistry*, **2012**, 421, 327-9	3.1	19
81	The wood rot ascomycete Xylaria polymorpha produces a novel GH78 glycoside hydrolase that exhibits α-L-rhamnosidase and feruloyl esterase activities and releases hydroxycinnamic acids from lignocelluloses. *Applied and Environmental Microbiology*, **2012**, 78, 4893-901	4.8	27
80	New Trends in Fungal Biooxidation **2011**, 425-449		4
79	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	4.1	62
78	A heme peroxidase of the ascomyceteous lichen Leptogium saturninum oxidizes high-redox potential substrates. *Fungal Genetics and Biology*, **2011**, 48, 1139-45	3.9	33
77	Selective hydroxylation of alkanes by an extracellular fungal peroxygenase. *FEBS Journal*, **2011**, 278, 3667-75	5.7	98
76	Patterns of lignin degradation and oxidative enzyme secretion by different wood- and litter-colonizing basidiomycetes and ascomycetes grown on beech-wood. *FEMS Microbiology Ecology*, **2011**, 78, 91-102	4.3	103
75	Direct electron transfer of Agrocybe aegerita peroxygenase at electrodes modified with chitosan-capped Au nanoparticles and its bioelectrocatalysis to aniline. *Sensors and Actuators B: Chemical*, **2011**, 160, 1419-1426	8.5	8
74	Preparation of human drug metabolites using fungal peroxygenases. *Biochemical Pharmacology*, **2011**, 82, 789-96	6	57
73	Fate of bisphenol A during treatment with the litter-decomposing fungi Stropharia rugosoannulata and Stropharia coronilla. *Chemosphere*, **2011**, 83, 226-32	8.4	28

72	Can peroxygenase and microperoxidase substitute cytochrome P450 in biosensors. *Bioanalytical Reviews*, **2011**, 3, 67-94	1	9
71	High-yield production of aromatic peroxygenase by the agaric fungus Marasmius rotula. *AMB Express*, **2011**, 1, 31	4.1	71
70	Specific Photobiocatalytic Oxyfunctionalization Reactions. *Angewandte Chemie*, **2011**, 123, 10904-10907	3.6	40
69	Specific photobiocatalytic oxyfunctionalization reactions. *Angewandte Chemie - International Edition*, **2011**, 50, 10716-9	16.4	105
68	Regioselective hydroxylation of diverse flavonoids by an aromatic peroxygenase. *Tetrahedron*, **2011**, 67, 4874-4878	2.4	33
67	Oxidative cleavage of non-phenolic β-O-4 lignin model dimers by an extracellular aromatic peroxygenase. *Holzforschung*, **2011**, 65,	2	31
66	Stepwise oxygenations of toluene and 4-nitrotoluene by a fungal peroxygenase. *Biochemical and Biophysical Research Communications*, **2010**, 397, 18-21	3.4	47
65	DyP-like peroxidases of the jelly fungus Auricularia auricula-judae oxidize nonphenolic lignin model compounds and high-redox potential dyes. *Applied Microbiology and Biotechnology*, **2010**, 85, 1869-79	5.7	141
64	New and classic families of secreted fungal heme peroxidases. *Applied Microbiology and Biotechnology*, **2010**, 87, 871-97	5.7	435
63	Conversion of polycyclic aromatic hydrocarbons, methyl naphthalenes and dibenzofuran by two fungal peroxygenases. *Biodegradation*, **2010**, 21, 267-81	4.1	64
62	Transformation of 14C-labelled lignin and humic substances in forest soil by the saprobic basidiomycetes Gymnopus erythropus and Hypholoma fasciculare. *Soil Biology and Biochemistry*, **2010**, 42, 1541-1548	7.5	38
61	Bioelectrocatalytic properties of Agrocybe aegerita peroxygenase. *Electrochimica Acta*, **2010**, 55, 7809-7813	3.7	15
60	Peroxygenase based sensor for aromatic compounds. *Biosensors and Bioelectronics*, **2010**, 26, 1432-6	11.8	16
59	Crystallization of a 45 kDa peroxygenase/peroxidase from the mushroom Agrocybe aegerita and structure determination by SAD utilizing only the haem iron. *Acta Crystallographica Section F: Structural Biology Communications*, **2010**, 66, 693-8		49
58	Die moderne Biotechnologie am Beispiel des Einsatzes von Pilzen **2010**, 723-742		
57	Oxidative cleavage of diverse ethers by an extracellular fungal peroxygenase. *Journal of Biological Chemistry*, **2009**, 284, 29343-9	5.4	79
56	Hydroxylation of naphthalene by aromatic peroxygenase from Agrocybe aegerita proceeds via oxygen transfer from H2O2 and intermediary epoxidation. *Applied Microbiology and Biotechnology*, **2009**, 81, 1071-6	5.7	66
55	Conversion of dibenzothiophene by the mushrooms Agrocybe aegerita and Coprinellus radians and their extracellular peroxygenases. *Applied Microbiology and Biotechnology*, **2009**, 82, 1057-66	5.7	65

54	Molecular characterization of aromatic peroxygenase from Agrocybe aegerita. *Applied Microbiology and Biotechnology*, **2009**, 84, 885-97	5.7	92
53	Regioselective preparation of 5-hydroxypropranolol and 4Shydroxydiclofenac with a fungal peroxygenase. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 3085-7	2.9	52
52	Purification of homogeneous forms of fungal peroxygenase. *Biotechnology Journal*, **2009**, 4, 1619-26	5.6	35
51	Pyridine as novel substrate for regioselective oxygenation with aromatic peroxygenase from Agrocybe aegerita. *FEBS Letters*, **2008**, 582, 4100-6	3.8	67
50	Biotechnology of Coal **2008**, 152-189		0
49	Aerobic Degradation by Microorganisms **2008**, 144-167		23
48	Molecular characterization of the basidiomycete isolate Nematoloma frowardii b19 and its manganese peroxidase places the fungus in the corticioid genus Phlebia. *Microbiology (United Kingdom)*, **2008**, 154, 2371-2379	2.9	33
47	Kinetics of the enzymatic decolorization of textile dyes by laccase from Cerrena unicolor. *Dyes and Pigments*, **2008**, 77, 295-302	4.6	106
46	Regioselective preparation of (R)-2-(4-hydroxyphenoxy)propionic acid with a fungal peroxygenase. *Tetrahedron Letters*, **2008**, 49, 5950-5953	2	53
45	Degradation and enzymatic activities of three Paecilomyces inflatus strains grown on diverse lignocellulosic substrates. *International Biodeterioration and Biodegradation*, **2007**, 59, 283-291	4.8	22
44	Production, purification and partial enzymatic and molecular characterization of a laccase from the wood-rotting ascomycete Xylaria polymorpha. *Enzyme and Microbial Technology*, **2007**, 41, 785-793	3.8	57
43	Production of lignocellulose-degrading enzymes and degradation of leaf litter by saprotrophic basidiomycetes isolated from a Quercus petraea forest. *Soil Biology and Biochemistry*, **2007**, 39, 2651-2660	7.5	134
42	Spectrophotometric assay for detection of aromatic hydroxylation catalyzed by fungal haloperoxidase-peroxygenase. *Applied Microbiology and Biotechnology*, **2007**, 75, 1473-8	5.7	39
41	Enzymatic hydroxylation of aromatic compounds. *Cellular and Molecular Life Sciences*, **2007**, 64, 271-93	10.3	251
40	Enhancement of bioconversion of high-molecular mass polycyclic aromatic hydrocarbons in contaminated non-sterile soil by litter-decomposing fungi. *Biodegradation*, **2007**, 18, 359-69	4.1	75
39	The coprophilous mushroom Coprinus radians secretes a haloperoxidase that catalyzes aromatic peroxygenation. *Applied and Environmental Microbiology*, **2007**, 73, 5477-85	4.8	93
38	The white-rot fungus Cerrena unicolor strain 137 produces two laccase isoforms with different physico-chemical and catalytic properties. *Applied Microbiology and Biotechnology*, **2006**, 69, 682-8	5.7	83
37	Heme-thiolate haloperoxidases: versatile biocatalysts with biotechnological and environmental significance. *Applied Microbiology and Biotechnology*, **2006**, 71, 276-88	5.7	186

36	Involvement of lipid peroxidation in the degradation of a non-phenolic lignin model compound by manganese peroxidase of the litter-decomposing fungus Stropharia coronilla. *Biochemical and Biophysical Research Communications*, **2005**, 330, 371-7	3.4	30
35	The haloperoxidase of the agaric fungus Agrocybe aegerita hydroxylates toluene and naphthalene. *FEBS Letters*, **2005**, 579, 6247-50	3.8	93
34	Aerobic Degradation of Recalcitrant Organic Compounds by Microorganisms **2005**, 203-227		21
33	Modification of humic acids by the compost-dwelling deuteromycete Paecilomyces inflatus. *Applied Microbiology and Biotechnology*, **2005**, 66, 443-9	5.7	25
32	Laccase from the medicinal mushroom Agaricus blazei: production, purification and characterization. *Applied Microbiology and Biotechnology*, **2005**, 67, 357-63	5.7	78
31	Influence of Pb contamination in boreal forest soil on the growth and ligninolytic activity of litter-decomposing fungi. *FEMS Microbiology Ecology*, **2005**, 53, 179-86	4.3	38
30	Endoglucanase Activity of Compost-Dwelling Fungus Paecilomyces inflatus is Stimulated by Humic Acids and Other Low Molecular Mass Aromatics. *World Journal of Microbiology and Biotechnology*, **2005**, 21, 1603-1609	4.4	8
29	Novel haloperoxidase from the agaric basidiomycete Agrocybe aegerita oxidizes aryl alcohols and aldehydes. *Applied and Environmental Microbiology*, **2004**, 70, 4575-81	4.8	234
28	Degradation of benzo[a]pyrene by the litter-decomposing basidiomycete Stropharia coronilla: role of manganese peroxidase. *Applied and Environmental Microbiology*, **2003**, 69, 3957-64	4.8	91
27	Enzymatische Umsetzung von Arsenkampfstoffen durch das Pilzenzym Mangan-Peroxidase. *Environmental Sciences Europe*, **2003**, 15, 224		1
26	Manganese Peroxidase and Its Role in the Degradation of Wood Lignin. *ACS Symposium Series*, **2003**, 230-243	0.4	27
25	Purification and characterization of manganese peroxidases from the litter-decomposing basidiomycetes Agrocybe praecox and Stropharia coronilla. *Enzyme and Microbial Technology*, **2002**, 30, 550-555	3.8	48
24	Review: lignin conversion by manganese peroxidase (MnP). *Enzyme and Microbial Technology*, **2002**, 30, 454-466	3.8	643
23	Degradation of humic acids by the litter-decomposing basidiomycete Collybia dryophila. *Applied and Environmental Microbiology*, **2002**, 68, 3442-8	4.8	122
22	Fungal laccase: properties and activity on lignin. *Journal of Basic Microbiology*, **2001**, 41, 185-227	2.7	412
21	Conversion of milled pine wood by manganese peroxidase from Phlebia radiata. *Applied and Environmental Microbiology*, **2001**, 67, 4588-93	4.8	94
20	Aerobic Degradation by Microorganisms **2001**, 144-167		14
19	Biotechnology of Coal **2001**, 152-189		1

18	Biodegradation of Humic Substances **2001**,		7
17	Fungal Degradation of Explosives **2000**,		3
16	Production of manganese peroxidase and organic acids and mineralization of 14C-labelled lignin (14C-DHP) during solid-state fermentation of wheat straw with the white rot fungus nematoloma frowardii. *Applied and Environmental Microbiology*, **1999**, 65, 1864-70	4.8	125
15	Depolymerization of Straw Lignin by Manganese Peroxidase from Nematoloma frowardii is Accompanied by Release of Carbon Dioxide. *Holzforschung*, **1999**, 53, 161-166	2	22
14	Transformation and mineralization of 2,4,6-trinitrotoluene (TNT) by manganese peroxidase from the white-rot basidiomycete Phlebia radiata. *Biodegradation*, **1999**, 10, 83-91	4.1	62
13	Coupling of manganese peroxidase-mediated lipid peroxidation with destruction of nonphenolic lignin model compounds and 14C-labeled lignins. *Biochemical and Biophysical Research Communications*, **1999**, 259, 212-9	3.4	86
12	Biodegradation of lignin by white rot fungi. *Fungal Genetics and Biology*, **1999**, 27, 175-85	3.9	315
11	Conversion of aminonitrotoluenes by fungal manganese peroxidase. *Journal of Basic Microbiology*, **1998**, 38, 51-59	2.7	35
10	Oxidation of PAH and PAH-derivatives by fungal and plant oxidoreductases. *Journal of Basic Microbiology*, **1998**, 38, 113-122	2.7	56
9	Degradation of humic acids by manganese peroxidase from the white-rot fungus Clitocybula dusenii. *Journal of Basic Microbiology*, **1998**, 38, 289-299	2.7	21
8	Enzymatic Combustion of Aromatic and Aliphatic Compounds by Manganese Peroxidase from Nematoloma frowardii. *Applied and Environmental Microbiology*, **1998**, 64, 399-404	4.8	130
7	Transformation of difluorinated phenols by Penicillium frequentans Bi 7/2. *Biodegradation*, **1997**, 8, 379-85	4.1	14
6	Degradation of phenanthrene and pyrene by Nematoloma frowardii. *Journal of Basic Microbiology*, **1997**, 37, 287-93	2.7	18
5	Degradation of polycyclic aromatic hydrocarbons by manganese peroxidase of Nematoloma frowardii. *FEMS Microbiology Letters*, **1997**, 152, 227-34	2.9	81
4	Cometabolic degradation of o-cresol and 2,6-dimethylphenol by Penicillium frequentans Bi 7/2. *Journal of Basic Microbiology*, **1995**, 35, 303-13	2.7	16
3	Unspecific degradation of halogenated phenols by the soil fungus Penicillium frequentans Bi 7/2. *Journal of Basic Microbiology*, **1994**, 34, 163-72	2.7	51
2	Utilization of aromatic compounds by the Penicillium strain Bi 7/2. *Journal of Basic Microbiology*, **1993**, 33, 227-32	2.7	18
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