Anna Jarosz-WilkoÅ‚azka

List of Publications by Year
in descending order

61 papers	3,447 citations	218592 26 h-index	138417 58 g-index
63 all docs	63 docs citations	63 times ranked	4369 citing authors

#	Article	IF	Citations
1	Lignin degradation: microorganisms, enzymes involved, genomes analysis and evolution. FEMS Microbiology Reviews, 2017, 41, 941-962.	3.9	584
2	Fungal laccase: properties and activity on lignin. Journal of Basic Microbiology, 2001, 41, 185-227.	1.8	472
3	Laccase Properties, Physiological Functions, and Evolution. International Journal of Molecular Sciences, 2020, 21, 966.	1.8	333
4	Direct electron transfer reactions of laccases from different origins on carbon electrodes. Bioelectrochemistry, 2005, 67, 115-124.	2.4	212
5	Fungi and their ability to decolourize azo and anthraquinonic dyes. Enzyme and Microbial Technology, 2002, 30, 566-572.	1.6	145
6	Fungal laccases as green catalysts for dye synthesis. Process Biochemistry, 2012, 47, 1295-1307.	1.8	144
7	Oxalate production by wood-rotting fungi growing in toxic metal-amended medium. Chemosphere, 2003, 52, 541-547.	4.2	117
8	Amperometric detection of mono- and diphenols at laccase-modified graphite electrode: correlation between sensitivity and substrate structure. Talanta, 2005, 66, 1219-1224.	2.9	104
9	Extracellular polysaccharides from Ascomycota and Basidiomycota: production conditions, biochemical characteristics, and biological properties. World Journal of Microbiology and Biotechnology, 2015, 31, 1823-1844.	1.7	97
10	Use of laccase-modified electrode for amperometric detection of plant flavonoids. Enzyme and Microbial Technology, 2004, 35, 238-241.	1.6	94
11	Characteristics of quercetin interactions with liposomal and vacuolar membranes. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 254-265.	1.4	78
12	New Bioactive Fungal Molecules with High Antioxidant and Antimicrobial Capacity Isolated fromCerrena unicolorIdiophasic Cultures. BioMed Research International, 2013, 2013, 1-11.	0.9	65
13	Tyrosinase/laccase bienzyme biosensor for amperometric determination of phenolic compounds. Microchemical Journal, 2008, 89, 171-174.	2.3	56
14	Amphotericin B-silver hybrid nanoparticles: synthesis, properties and antifungal activity. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 1095-1103.	1.7	54
15	Exopolysaccharide fromGanoderma applanatumas a Promising Bioactive Compound with Cytostatic and Antibacterial Properties. BioMed Research International, 2014, 2014, 1-10.	0.9	50
16	Species-specific Cd-stress Response in the White Rot Basidiomycetes Abortiporus biennis and Cerrena unicolor. BioMetals, 2006, 19, 39-49.	1.8	48
17	Synthesis and structural characterization of a novel phenoxazinone dye by use of a fungal laccase. Journal of Molecular Catalysis B: Enzymatic, 2010, 63, 116-120.	1.8	40
18	Abortiporus biennis tolerance to insoluble metal oxides: oxalate secretion, oxalate oxidase activity, and mycelial morphology. BioMetals, 2009, 22, 401-410.	1.8	36

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19	Calcium carbonate formation on mica supported extracellular polymeric substance produced by Rhodococcus opacus. Journal of Solid State Chemistry, 2016, 242, 212-221.	1.4	36
20	UPTAKE OF CADMIUM IONS IN WHITE-ROT FUNGUS TRAMETES VERSICOLOR: EFFECT OF CD (II) IONS ON THE ACTIVITY OF LACCASE. Cell Biology International, 2002, 26, 605-613.	1.4	35
21	Organic acids production by white rot Basidiomycetes in the presence of metallic oxides. Canadian Journal of Microbiology, 2006, 52, 779-785.	0.8	34
22	Structure/Redox potential relationship of simple organic compounds as potential precursors of dyes for laccaseâ€mediated transformation. Biotechnology Progress, 2012, 28, 93-102.	1.3	32
23	Toxicity and dyeing properties of dyes obtained through laccase-mediated synthesis. Journal of Cleaner Production, 2016, 112, 4265-4272.	4.6	31
24	Whole-cell fungal transformation of precursors into dyes. Microbial Cell Factories, 2010, 9, 51.	1.9	30
25	Catalytic activity of versatile peroxidase from Bjerkandera fumosa in aqueous solutions of waterâ€“miscible organic solvents. Applied Catalysis A: General, 2006, 308, 56-61.	2.2	29
26	Catalytic activity of Cerrena unicolor laccase in aqueous solutions of water-miscible organic solventsâ€”Experimental and numerical description. Journal of Molecular Catalysis B: Enzymatic, 2007, 44, 53-59.	1.8	29
27	Extracellular polymeric substances immobilized on microspheres for removal of heavy metals from aqueous environment. Biochemical Engineering Journal, 2019, 143, 202-211.	1.8	26
28	Laccase-mediated synthesis of a phenoxazine compound with antioxidative and dyeing properties â€“ the optimisation process. New Biotechnology, 2016, 33, 255-262.	2.4	25
29	Growth inhibition and intracellular distribution of Pb ions by the white-rot fungus Abortiporus biennis. International Biodeterioration and Biodegradation, 2011, 65, 124-129.	1.9	23
30	Characterisation of exopolymer R-202 isolated from Rhodococcus rhodochrous and its flocculating properties. European Polymer Journal, 2017, 88, 21-33.	2.6	23
31	Oxalic acid, versatile peroxidase secretion and chelating ability of Bjerkandera fumosa in rich and limited culture conditions. World Journal of Microbiology and Biotechnology, 2011, 27, 1885-1891.	1.7	21
32	Production and characterisation of exopolymer from Rhodococcus opacus. Biochemical Engineering Journal, 2016, 112, 143-152.	1.8	21
33	Versatile peroxidase of Bjerkandera fumosa: Substrate and inhibitor specificity. Enzyme and Microbial Technology, 2013, 52, 44-53.	1.6	20
34	Nonlinear changes in the activity of the oxygen-dependent demethylase system in Rhodococcus erythropolis cells in the presence of low and very low doses of formaldehyde. Nonlinear Biomedical Physics, 2011, 5, 9.	1.5	19
35	Purification of wastewater by natural flocculants. Biotechnologia, 2015, 4, 272-278.	0.3	17
36	Inhibition of the proteasome strongly affects cadmium stimulated laccase activity in. Biochimie, 2005, 87, 755-762.	1.3	16

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37	Catalytic activity of versatile peroxidase fromBjerkandera fumosaat different pH. Biocatalysis and Biotransformation, 2008, 26, 280-287.	1.1	16
38	Characterization of graphite electrodes modified with laccases fromTrametes hirsutaandCerrena unicolorand their use for flow injection amperometric determination of some phenolic compounds. International Journal of Environmental Analytical Chemistry, 2005, 85, 753-770.	1.8	15
39	Biophysical characterization of genisteinâ€“membrane interaction and its correlation with biological effect on cells â€" The case of EYPC liposomes and human erythrocyte membranes. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2127-2138.	1.4	14
40	Novel textile dye obtained through transformation of 2-amino-3-methoxybenzoic acid by free and immobilised laccase from a Pleurotus ostreatus strain. Enzyme and Microbial Technology, 2020, 132, 109398.	1.6	14
41	Structure and Bioactive Properties of Novel Textile Dyes Synthesised by Fungal Laccase. International Journal of Molecular Sciences, 2020, 21, 2052.	1.8	14
42	Differences in Production, Composition, and Antioxidant Activities of Exopolymeric Substances (EPS) Obtained from Cultures of Endophytic Fusarium culmorum Strains with Different Effects on Cereals. Molecules, 2020, 25, 616.	1.7	14
43	Effect of Low Doses of Guaiacol and Ethanol on Enzymatic Activity of Fungal Cultures. Nonlinearity in Biology, Toxicology, Medicine, 2003, 1, 154014203914343.	0.4	13
44	Influence of Carrier Structure and Physicochemical Factors on Immobilisation of Fungal Laccase in Terms of Bisphenol A Removal. Catalysts, 2020, 10, 951.	1.6	13
45	Formaldehyde as a Proof and Response to Various Kind of Stress in Some Basidiomycetes. Acta Biologica Hungarica, 1998, 49, 393-403.	0.7	13
46	Influence of very low doses of mediators on fungal laccase activity - nonlinearity beyond imagination. Nonlinear Biomedical Physics, 2009, 3, 10.	1.5	12
47	Development of a Laccaseâ€Modified Electrode for Amperometric Detection of Monoâ€•and Diphenols. The Influence of Enzyme Storage Method. Analytical Letters, 2004, 37, 1497-1513.	1.0	11
48	NOVEL APPLICATION OF POROUS AND CELLULAR MATERIALS FOR COVALENT IMMOBILIZATION OF PEPSIN. Brazilian Journal of Chemical Engineering, 2016, 33, 251-260.	0.7	11
49	Bacterial exopolysaccharides as a modern biotechnological tool for modification of fungal laccase properties and metal ion binding. Bioprocess and Biosystems Engineering, 2018, 41, 973-989.	1.7	11
50	Formaldehyde as a proof and response to various kind of stress in some Basidiomycetes. Acta Biologica Hungarica, 1998, 49, 393-403.	0.7	10
51	Correlation between the production of exopolysaccharides and oxalic acid secretion by Ganoderma applanatum and Tyromyces palustris. World Journal of Microbiology and Biotechnology, 2014, 30, 3065-3074.	1.7	9
52	Oxalic acid degradation by a novel fungal oxalate oxidase from Abortiporus biennis. Acta Biochimica Polonica, 2016, 63, 595-600.	0.3	9
53	Transcriptome-based analysis of the saprophytic fungus Abortiporus biennis â€“ response to oxalic acid. Microbiological Research, 2017, 199, 79-88.	2.5	9
54	Decolourisation of anthraquinone-and anthracene-type dyes by versatile peroxidases frombjerkandera fumosa and pleurotus ostreatusD1. Biocatalysis and Biotransformation, 2015, 33, 69-80.	1.1	8

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55	New alkaline lipase from Rhizomucor variabilis: Biochemical properties and stability in the presence of microbial EPS. Biotechnology and Applied Biochemistry, 2016, 63, 67-76.	1.4	8
56	Serine Protease Inhibitorsâ€"New Molecules for Modification of Polymeric Biomaterials. Biomolecules, 2020, 10, 82.	1.8	8
57	The Influence of Very Low Doses of Cisplatin on Tumor Cell Proliferation In Vitro and on Some Hematological and Enzymatic Parameters of Healthy Rats. Nonlinearity in Biology, Toxicology, Medicine, 2003, 1, 154014203908445.	0.4	6
58	Bioactive Properties of a Novel Antibacterial Dye Obtained from Laccase-Mediated Oxidation of 8-Anilino-1-naphthalenesulfonic Acid. Molecules, 2022, 27, 487.	1.7	5
59	Physicochemical factors affecting flocculating properties of the proteoglycan isolated from Rhodococcus opacus. Biophysical Chemistry, 2021, 277, 106656.	1.5	3
60	Intracellular distribution of cadmium during the growth of Abortiporus biennis on cadmium-amended media. Canadian Journal of Microbiology, 2015, 61, 545-554.	0.8	2
61	Oxalate oxidase from Abortiporus biennis â€“ protein localisation and gene sequence analysis. International Journal of Biological Macromolecules, 2020, 148, 1307-1315.	3.6	1