Christian Mougin

List of Publications by Year
in descending order

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82 papers	3,396 citations	172207 29 h-index	149479 56 g-index
86 all docs	86 docs citations	86 times ranked	4109 citing authors

#	Article	IF	Citations
1	Crystal Structure of a Four-Copper Laccase Complexed with an Arylamine:Â Insights into Substrate Recognition and Correlation with Kineticsâ€,â€¡. Biochemistry, 2002, 41, 7325-7333.	1.2	484
2	Cyanobacterial toxins: Modes of actions, fate in aquatic and soil ecosystems, phytotoxicity and bioaccumulation in agricultural crops. Chemosphere, 2014, 96, 1-15.	4.2	269
3	Contribution of exudates, arbuscular mycorrhizal fungi and litter depositions to the rhizosphere priming effect induced by grassland species. Soil Biology and Biochemistry, 2015, 80, 146-155.	4.2	210
4	Effects of pesticides on soil enzymes: a review. Environmental Chemistry Letters, 2014, 12, 257-273.	8.3	175
5	Shifting the optimal pH of activity for a laccase from the fungus Trametes versicolor by structure-based mutagenesis. Protein Engineering, Design and Selection, 2006, 19, 77-84.	1.0	136
6	Biotransformation of the Herbicide Atrazine by the White Rot Fungus Phanerochaete chrysosporium. Applied and Environmental Microbiology, 1994, 60, 705-708.	1.4	112
7	Immobilization of laccase from Trametes versicolor on a modified PVDF microfiltration membrane: characterization of the grafted support and application in removing a phenylurea pesticide in wastewater. Journal of Membrane Science, 2000, 180, 103-113.	4.1	109
8	Expression of laccase IIIb from the white-rot fungus Trametes versicolor in the yeast Yarrowia lipolytica for environmental applications. Applied Microbiology and Biotechnology, 2005, 66, 450-456.	1.7	106
9	Plant clipping decelerates the mineralization of recalcitrant soil organic matter under multiple grassland species. Soil Biology and Biochemistry, 2012, 51, 73-80.	4.2	92
10	Enhanced production of laccase in the fungus Trametes versicolor by the addition of xenobiotics. Biotechnology Letters, 2002, 24, 139-142.	1.1	82
11	Root penetration in deep soil layers stimulates mineralization of millennia-old organic carbon. Soil Biology and Biochemistry, 2018, 124, 150-160.	4.2	72
12	Degradation of PAHs by ligninolytic enzymes of Irpex lacteus. Folia Microbiologica, 2008, 53, 289-294.	1.1	71
13	Hydroxylation and N-demethylation of chlorotoluron by wheat microsomal enzymes. Plant Science, 1990, 66, 195-203.	1.7	67
14	Biotransformation of the Insecticide Lindane by the White Rot BasidiomycetePhanerochaetechrysosporium. Pest Management Science, 1996, 47, 51-59.	0.7	63
15	Assessing impacts of copper on soil enzyme activities in regard to their natural spatiotemporal variation under long-term different land uses. Soil Biology and Biochemistry, 2012, 49, 150-156.	4.2	63
16	Interactions of various agrochemicals with cytochrome P-450-dependent monooxygenases of wheat cells. Pesticide Biochemistry and Physiology, 1991, 40, 1-11.	1.6	60
17	Evaluation of the transfer and the accumulation of microcystins in tomato (Solanum lycopersicum) Tj ETQq1 1 0.784314 rgBT /Overl radiolabeled microcystin-LR (14 C-MC-LR). Science of the Total Environment, 2016, 541, 1052-1058.	3.9	58
18	Biotransformation of bezo[a]pyrene in bench scale reactor using laccase of Pycnoporus cinnabarinus. Biotechnology Letters, 1998, 20, 1101-1104.	1.1	47

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19	Fungal laccases: from structure-activity studies to environmental applications. Environmental Chemistry Letters, 2003, 1, 145-148.	8.3	46
20	Evaluation of phytotoxicity and ecotoxicity potentials of a cyanobacterial extract containing microcystins under realistic environmental concentrations and in a soilâ€“plant system. Chemosphere, 2015, 128, 332-340.	4.2	46
21	Biotransformation ofs-Triazine Herbicides and Related Degradation Products in Liquid Cultures by the White Rot FungusPhanerochaete chrysosporium. Pest Management Science, 1997, 49, 169-177.	0.7	45
22	Cleavage of the Diketonitrile Derivative of the Herbicide Isoxaflutole by Extracellular Fungal Oxidases. Journal of Agricultural and Food Chemistry, 2000, 48, 4529-4534.	2.4	45
23	Concentrations and specific loads of glyphosate, diuron, atrazine, nonylphenol and metabolites thereof in French urban sewage sludge. Chemosphere, 2007, 69, 1368-1373.	4.2	45
24	Enhanced mineralization of lindane in soils supplemented with the white rot basidiomycete Phanerochaete chrysosporium. Soil Biology and Biochemistry, 1997, 29, 1321-1324.	4.2	44
25	Bioremediation and Phytoremediation of Industrial PAH-Polluted Soils. Polycyclic Aromatic Compounds, 2002, 22, 1011-1043.	1.4	44
26	Aporrectodea caliginosa, a relevant earthworm species for a posteriori pesticide risk assessment: current knowledge and recommendations for culture and experimental design. Environmental Science and Pollution Research, 2018, 25, 33867-33881.	2.7	44
27	Identification of new microbial functional standards for soil quality assessment. Soil, 2020, 6, 17-34.	2.2	39
28	Effect of Nonylphenol Surfactants on Fungi following the Application of Sewage Sludge on Agricultural Soils. Journal of Environmental Quality, 2003, 32, 1269.	1.0	35
29	Oligomeric compounds formed from 2,5-xylidine (2,5-dimethylaniline) are potent enhancers of laccase production in Trametes versicolor ATCC 32745. Applied Microbiology and Biotechnology, 2005, 68, 251-258.	1.7	32
30	Earthworms highly increase ciprofloxacin mineralization in soils. Environmental Chemistry Letters, 2013, 11, 127-133.	8.3	31
31	Earthworms in a 15 years agricultural trial. Applied Soil Ecology, 2015, 88, 1-8.	2.1	30
32	Biotransformation of Trichoderma spp. and Their Tolerance to Aromatic Amines, a Major Class of Pollutants. Applied and Environmental Microbiology, 2013, 79, 4719-4726.	1.4	29
33	Differences in sensitivity between earthworms and enchytraeids exposed to two commercial fungicides. Ecotoxicology and Environmental Safety, 2017, 140, 177-184.	2.9	28
34	Dynamics of the toxic cyanobacterial microcystin-leucine-arginine peptide in agricultural soil. Environmental Chemistry Letters, 2014, 12, 535-541.	8.3	26
35	Inoculation of Filamentous Fungi in Manufactured Gas Plant Site Soils and PAH Transformation. Polycyclic Aromatic Compounds, 2001, 18, 397-414.	1.4	25
36	Characterization of chlordecone-tolerant fungal populations isolated from long-term polluted tropical volcanic soil in the French West Indies. Environmental Science and Pollution Research, 2014, 21, 4914-4927.	2.7	24

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37	Fate of Pesticides in Soils: Toward an Integrated Approach of Influential Factors. , 0, , .		22
38	Purification and preliminary crystallographic study ofTrametes versicolorlaccase in its native form. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 319-321.	2.5	21
39	Fate of the veterinary medicine ivermectin in soil. Environmental Chemistry Letters, 2003, 1, 131-134.	8.3	19
40	Soil irrigation with water and toxic cyanobacterial microcystins accelerates tomato development. Environmental Chemistry Letters, 2015, 13, 447-452.	8.3	19
41	Incorporation of pesticides by soil micro-organisms as a way of bound residues formation. Environmental Chemistry Letters, 2004, 2, 27-30.	8.3	18
42	Metal Contamination Disturbs Biochemical and Microbial Properties of Calcareous Agricultural Soils of the Mediterranean Area. Archives of Environmental Contamination and Toxicology, 2013, 64, 388-398.	2.1	18
43	Effects of two common fungicides on the reproduction of Aporrectodea caliginosa in natural soil. Ecotoxicology and Environmental Safety, 2019, 181, 518-524.	2.9	18
44	How to Integrate Experimental Research Approaches in Ecological and Environmental Studies: AnaEE France as an Example. Frontiers in Ecology and Evolution, 2018, 6, .	1.1	17
45	Soil Bioremediation Strategies Based on the Use of Fungal Enzymes. Soil Biology, 2009, , 123-149.	0.6	16
46	Identification and Formation Pathway of Laccase-Mediated Oxidation Products Formed from Hydroxyphenylureas. Journal of Agricultural and Food Chemistry, 2006, 54, 5046-5054.	2.4	15
47	Soil irrigation with toxic cyanobacterial microcystins increases soil nitrification potential. Environmental Chemistry Letters, 2015, 13, 459-463.	8.3	15
48	Earthworms Mitigate Pesticide Effects on Soil Microbial Activities. Frontiers in Microbiology, 2019, 10, 1535.	1.5	15
49	Insights into the development of fungal biomarkers for metal ecotoxicity assessment: Case of Trametes versicolor exposed to copper. Environmental Toxicology and Chemistry, 2010, 29, 902-908.	2.2	14
50	On-line supercritical fluid extraction and high performance liquid chromatography for determination of triazine compounds in soil. Journal of High Resolution Chromatography, 1996, 19, 700-702.	2.0	13
51	No evidence for effect of soil compaction on the degradation and impact of isoproturon. Environmental Chemistry Letters, 2011, 9, 145-150.	8.3	13
52	Formation of 2,4-D bound residues in soils: New insights into microbial metabolism. Science of the Total Environment, 2017, 584-585, 715-722.	3.9	13
53	Chlorinated hydrocarbons in eggs of grey heron (Ardea cinerea L.) in France (Lac de Grandlieu). Chemosphere, 1997, 35, 1003-1009.	4.2	12
54	Secretion profiles of fungi as potential tools for metal ecotoxicity assessment: A study of enzymatic system in Trametes versicolor. Chemosphere, 2011, 82, 340-345.	4.2	12

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55	Residues of chlorinated pesticides in eggs of the gray heron (Ardea cinerea L.): Contribution of capillary gas chromatography ion-trap mass detection. Journal of High Resolution Chromatography, 1996, 19, 62-64.	2.0	10
56	Interference of Soil Contaminants with Laccase Activity During the Transformation of Complex Mixtures of Polycyclic Aromatic Hydrocarbons in Liquid Media. Polycyclic Aromatic Compounds, 2002, 22, 673-688.	1.4	10
57	Favouring the bioavailability of Zn and Cu to enhance the production of lignin-modifying enzymes in Trametes versicolor cultures. Bioresource Technology, 2011, 102, 3103-3109.	4.8	9
58	Fate of herbicides and nonylphenol in soilâ€“plantâ€“water systems amended with contaminated sewage sludge. Environmental Chemistry Letters, 2006, 4, 63-67.	8.3	8
59	A coordinated set of ecosystem research platforms open to international research in ecotoxicology, AnaEE-France. Environmental Science and Pollution Research, 2015, 22, 16215-16228.	2.7	8
60	BRC4Env, a network of Biological Resource Centres for research in environmental and agricultural sciences. Environmental Science and Pollution Research, 2018, 25, 33849-33857.	2.7	8
61	How to assess the feeding activity in ecotoxicological laboratory tests using enchytraeids?. Environmental Science and Pollution Research, 2018, 25, 33844-33848.	2.7	8
62	Inter-laboratory validation of an ISO test method for measuring enzyme activities in soil samples using colorimetric substrates. Environmental Science and Pollution Research, 2022, 29, 29348-29357.	2.7	8
63	Title is missing!. Biotechnology Letters, 1998, 12, 725-728.	0.5	7
64	Effect of the endectocide ivermectin on filamentous fungi. Environmental Chemistry Letters, 2003, 1, 215-218.	8.3	7
65	Pesticide-Derived Aromatic Amines and Their Biotransformation. , 0, , .		7
66	Biochem-Env: a platform of biochemistry for research in environmental and agricultural sciences. Environmental Science and Pollution Research, 2018, 25, 6154-6157.	2.7	7
67	Interference of Soil Contaminants with Laccase Activity During the Transformation of Complex Mixtures of Polycyclic Aromatic Hydrocarbons in Liquid Media. , 0, .		7
68	Effects of N,Nâ€²-bis-(4-trifluoromethylphenyl)-urea on isolated plant mitochondria and thylakoid membranes. Phytochemistry, 1991, 30, 733-738.	1.4	6
69	Isolation and characterization of efficient isoxaben-transformingMicrobacteriumsp strains from four European soils. Pest Management Science, 2002, 58, 1229-1235.	1.7	6
70	Phthalic acid and benzo[a]pyrene in soilâ€“plantâ€“water systems amended with contaminated sewage sludge. Environmental Chemistry Letters, 2006, 4, 201-206.	8.3	6
71	ISTA 14â€”Impact of antibiotics from pig slurry on soil microbial communities, including the basidiomycete Trametes versicolor. Environmental Toxicology, 2012, 27, 129-136.	2.1	6
72	Oxidoreductases provide a more generic response to metallic stressors (Cu and Cd) than hydrolases in soil fungi: new ecotoxicological insights. Environmental Science and Pollution Research, 2016, 23, 3036-3041.	2.7	6

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73	RECOTOX, a French initiative in ecotoxicology-toxicology to monitor, understand and mitigate the ecotoxicological impacts of pollutants in socioagroecosystems. Environmental Science and Pollution Research, 2018, 25, 33882-33894.	2.7	5
74	New Insights into the Use of Filamentous Fungi and Their Degradative Enzymes as Tools for Assessing the Ecotoxicity of Contaminated Soils During Bioremediation Processes. Soil Biology, 2013, , 419-432.	0.6	5
75	Fate and impact of pesticides: new directions to explore. Environmental Science and Pollution Research, 2017, 24, 6841-6843.	2.7	4
76	Fate of 17Î²-estradiol in terrestrial model ecosystems amended with contaminated composted biosolids. Environmental Chemistry Letters, 2009, 7, 369-373.	8.3	3
77	Introducing Grasslands into Crop Rotations, a Way to Restore Microbiodiversity and Soil Functions. Agriculture (Switzerland), 2021, 11, 909.	1.4	3
78	ECOTOX, new questions for terrestrial and aquatic ecotoxicology. Environmental Science and Pollution Research, 2018, 25, 33841-33843.	2.7	2
79	Effect of Multiple Stresses, Organic Amendment and Compaction, on the Fate and Impact of Isoproturon in Soil. Environments - MDPI, 2020, 7, 79.	1.5	2
80	Application of standard statistical methods in the analysis of complex data generated from soil bioassays to assess the impacts of agrochemical-containing sludge amendments. Toxicological and Environmental Chemistry, 2013, 95, 4-25.	0.6	1
81	ECOTOX, the INRAâ€™s network of ecotoxicologists, a major structure involved for the coordination and structuring of the French research in ecotoxicology. Environmental Science and Pollution Research, 2016, 23, 2969-2973.	2.7	1
82	Academic expertise in assisting private companies in the fields of environment and environmental toxicology: the role of individual expertise. Environmental Science and Pollution Research, 2021, 28, 1283-1286.	2.7	0