Hubert Cabana

List of Publications by Year
in descending order

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80 papers	2,906 citations	159358 30 h-index	174990 52 g-index
83 all docs	83 docs citations	83 times ranked	2823 citing authors

#	Article	IF	Citations
1	Preparation and characterization of cross-linked laccase aggregates and their application to the elimination of endocrine disrupting chemicals. Journal of Biotechnology, 2007, 132, 23-31.	1.9	204
2	Elimination of endocrine disrupting chemicals nonylphenol and bisphenol A and personal care product ingredient triclosan using enzyme preparation from the white rot fungus Coriolopsis polyzona. Chemosphere, 2007, 67, 770-778.	4.2	193
3	Elimination of Endocrine Disrupting Chemicals using White Rot Fungi and their Lignin Modifying Enzymes: A Review. Engineering in Life Sciences, 2007, 7, 429-456.	2.0	149
4	Magnetic cross-linked laccase aggregates â€" Bioremediation tool for decolorization of distinct classes of recalcitrant dyes. Science of the Total Environment, 2014, 487, 830-839.	3.9	137
5	Laccase immobilization and insolubilization: from fundamentals to applications for the elimination of emerging contaminants in wastewater treatment. Critical Reviews in Biotechnology, 2013, 33, 404-418.	5.1	133
6	Characterization of combined cross-linked enzyme aggregates from laccase, versatile peroxidase and glucose oxidase, and their utilization for the elimination of pharmaceuticals. Science of the Total Environment, 2014, 481, 90-99.	3.9	130
7	Immobilization of laccase from the white rot fungus Coriolopsis polyzona and use of the immobilized biocatalyst for the continuous elimination of endocrine disrupting chemicals. Bioresource Technology, 2009, 100, 3447-3458.	4.8	117
8	Utilization of crossâ€linked laccase aggregates in a perfusion basket reactor for the continuous elimination of endocrineâ€disrupting chemicals. Biotechnology and Bioengineering, 2009, 102, 1582-1592.	1.7	95
9	Synthesis and characterization of combined cross-linked laccase and tyrosinase aggregates transforming acetaminophen as a model phenolic compound in wastewaters. Science of the Total Environment, 2014, 487, 748-755.	3.9	92
10	Conjugation of laccase from the white rot fungus Trametes versicolor to chitosan and its utilization for the elimination of triclosan. Bioresource Technology, 2011, 102, 1656-1662.	4.8	74
11	The NSERC Canadian Lake Pulse Network: A national assessment of lake health providing science for water management in a changing climate. Science of the Total Environment, 2019, 695, 133668.	3.9	68
12	Hybrid bioreactor (HBR) of hollow fiber microfilter membrane and cross-linked laccase aggregates eliminate aromatic pharmaceuticals in wastewaters. Journal of Hazardous Materials, 2014, 280, 662-670.	6.5	63
13	Adsorptive potential of dispersible chitosan coated iron-oxide nanocomposites toward the elimination of arsenic from aqueous solution. Chemical Engineering Research and Design, 2016, 104, 185-195.	2.7	63
14	Towards high potential magnetic biocatalysts for on-demand elimination of pharmaceuticals. Bioresource Technology, 2016, 200, 81-89.	4.8	63
15	A hybrid bioreactor based on insolubilized tyrosinase and laccase catalysis and microfiltration membrane remove pharmaceuticals from wastewater. Chemosphere, 2018, 201, 749-755.	4.2	57
16	Xenobiotic Compounds Degradation by Heterologous Expression of a Trametes sanguineus Laccase in Trichoderma atroviride. PLoS ONE, 2016, 11, e0147997.	1.1	55
17	Laccase-Based CLEAs: Chitosan as a Novel Cross-Linking Agent. Enzyme Research, 2011, 2011, 1-10.	1.8	54
18	Cyanotoxins at low doses induce apoptosis and inflammatory effects in murine brain cells: Potential implications for neurodegenerative diseases. Toxicology Reports, 2016, 3, 180-189.	1.6	53

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19	First demonstration that ascomycetous halophilic fungi (Aspergillus sydowii and Aspergillus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf Technology, 2019, 279, 287-296.	4.8	53
20	Formation of enzyme polymer engineered structure for laccase and cross-linked laccase aggregates stabilization. Bioresource Technology, 2013, 128, 640-645.	4.8	50
21	Recyclable cross-linked laccase aggregates coupled to magnetic silica microbeads for elimination of pharmaceuticals from municipal wastewater. Environmental Science and Pollution Research, 2016, 23, 8929-8939.	2.7	49
22	Simple screening protocol for identification of potential mycoremediation tools for the elimination of polycyclic aromatic hydrocarbons and phenols from hyperalkalophile industrial effluents. Journal of Environmental Management, 2017, 198, 1-11.	3.8	43
23	Liquid chromatography-tandem mass spectrometry determination for multiclass pesticides from insect samples by microwave-assisted solvent extraction followed by a salt-out effect and micro-dispersion purification. Analytica Chimica Acta, 2015, 891, 160-170.	2.6	42
24	Synergetic integration of laccase and versatile peroxidase with magnetic silica microspheres towards remediation of biorefinery wastewater. Environmental Science and Pollution Research, 2017, 24, 17993-18009.	2.7	42
25	Evaluation of the efficiency of Trametes hirsuta for the removal of multiple pharmaceutical compounds under low concentrations relevant to the environment. Bioresource Technology, 2014, 171, 199-202.	4.8	41
26	Characterisation of electron beam irradiation-immobilised laccase for application in wastewater treatment. Science of the Total Environment, 2018, 624, 309-322.	3.9	41
27	Transcriptomic analysis of polyaromatic hydrocarbon degradation by the halophilic fungus Aspergillus sydowii at hypersaline conditions. Environmental Microbiology, 2021, 23, 3435-3459.	1.8	41
28	Selective bioaccumulation of neonicotinoids and sub-lethal effects in the earthworm Eisenia andrei exposed to environmental concentrations in an artificial soil. Chemosphere, 2017, 186, 839-847.	4.2	37
29	Mycoremediation of phenols and polycyclic aromatic hydrocarbons from a biorefinery wastewater and concomitant production of lignin modifying enzymes. Journal of Cleaner Production, 2020, 253, 119810.	4.6	35
30	Removal of acetaminophen and carbamazepine in single and binary systems with immobilized laccase fromTrametes hirsuta. Biocatalysis and Biotransformation, 2017, 35, 51-62.	1.1	34
31	Effect of soil organic matter (SOM) on the degradation of polycyclic aromatic hydrocarbons using Pleurotus dryinus IBB 903-A microcosm study. Journal of Environmental Management, 2020, 260, 110153.	3.8	32
32	Pharmaceuticals and pesticides in rural community drinking waters of Quebec, Canada â€“ a regional study on the susceptibility to source contamination. Water Quality Research Journal of Canada, 2019, 54, 88-103.	1.2	29
33	Evaluation of the efficiency of an experimental biocover to reduce BTEX emissions from landfill biogas. Chemosphere, 2014, 97, 98-101.	4.2	26
34	Intracellular Enzymes Contribution to the Biocatalytic Removal of Pharmaceuticals by Trametes hirsuta. Environmental Science & Technology, 2017, 51, 897-904.	4.6	25
35	Remediation of bio-refinery wastewater containing organic and inorganic toxic pollutants by adsorption onto chitosan-based magnetic nanosorbent. Water Quality Research Journal of Canada, 2020, 55, 36-51.	1.2	24
36	Systemic Concocting of Crossâ€Linked Enzyme Aggregates of Candida antarctica Lipase B (Novozyme 435) for the Biomanufacturing of Rhamnolipids. Journal of Surfactants and Detergents, 2019, 22, 477-490.	1.0	23

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37	Recent Developments in the Immobilization of Laccase on Carbonaceous Supports for Environmental Applications - A Critical Review. Frontiers in Bioengineering and Biotechnology, 2021, 9, 778239.	2.0	23
38	Reduction of odours in pilot-scale landfill biocovers. Waste Management, 2014, 34, 770-779.	3.7	22
39	Valorization of the Spent Biomass of Pleurotus mutilus Immobilized as Calcium Alginate Biobeads for Methylene Blue Biosorption. Environmental Processes, 2016, 3, 413-430.	1.7	22
40	Phosphate Adsorption onto Chitosan-Based Hydrogel Microspheres. Adsorption Science and Technology, 2014, 32, 557-569.	1.5	21
41	Development of efficient and sustainable added-value products from municipal biosolids through an industrially feasible process. Journal of Cleaner Production, 2020, 266, 121749.	4.6	20
42	Tracking gene expression, metabolic profiles, and biochemical analysis in the halotolerant basidiomycetous yeast Rhodotorula mucilaginosa EXF-1630 during benzo[a]pyrene and phenanthrene biodegradation under hypersaline conditions. Environmental Pollution, 2021, 271, 116358.	3.7	19
43	Accumulation and sublethal effects of triclosan and its transformation product methylâ€triclosan in the earthworm Eisenia andrei exposed to environmental concentrations in an artificial soil. Environmental Toxicology and Chemistry, 2018, 37, 1940-1948.	2.2	18
44	Purification and characterization of latent polyphenol oxidase from truffles (Terfezia arenaria). International Journal of Biological Macromolecules, 2020, 145, 885-893.	3.6	18
45	Predicting atrazine concentrations in waterbodies across the contiguous United States: The importance of land use, hydrology, and water physicochemistry. Limnology and Oceanography, 2020, 65, 2966-2983.	1.6	18
46	Monitoring of prenatal exposure to organic and inorganic contaminants using meconium from an Eastern Canada cohort. Environmental Research, 2019, 171, 44-51.	3.7	17
47	Adverse effects of atrazine, DCMU and metolachlor on phytoplankton cultures and communities at environmentally relevant concentrations using Fast Repetition Rate Fluorescence. Science of the Total Environment, 2020, 712, 136239.	3.9	16
48	Development of a magnetically separable co-immobilized laccase and versatile peroxidase system for the conversion of lignocellulosic biomass to vanillin. Journal of the Air and Waste Management Association, 2020, 70, 1252-1259.	0.9	16
49	Remediation of trace organic contaminants from biosolids: Influence of various pre-treatment strategies prior to Bacillus subtilis aerobic digestion. Chemical Engineering Journal, 2021, 419, 129966.	6.6	16
50	Insolubilization of Tramates versicolor laccase as cross-linked enzyme aggregates for the remediation of trace organic contaminants from municipal wastewater. Environmental Research, 2022, 209, 112882.	3.7	15
51	Preparation of highly diffusible porous cross-linked lipase B from Candida antarctica conjugates: Advances in mass transfer and application in transesterification of 5-Hydroxymethylfurfural. International Journal of Biological Macromolecules, 2021, 170, 583-592.	3.6	14
52	Effect of alkaline treatment on the removal of contaminants of emerging concern from municipal biosolids: Modelling and optimization of process parameters using RSM and ANN coupled GA. Chemosphere, 2022, 286, 131847.	4.2	14
53	Two Novel Biofilters to Remove Volatile Organic Compounds Emitted by Landfill Sites. Water, Air, and Soil Pollution, 2016, 227, 1.	1.1	13
54	Evaluation of bio-fenton oxidation approach for the remediation of trichloroethylene from aqueous solutions. Journal of Environmental Management, 2020, 270, 110899.	3.8	13

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55	Utilization of biosolids for glucose oxidase production: A potential bio-fenton reagent for advanced oxidation process for removal of pharmaceutically active compounds. Journal of Environmental Management, 2020, 271, 110995.	3.8	13
56	Integrated Biotechnology Management of Biosolids: Sustainable Ways to Produce Valueâ€"Added Products. Frontiers in Water, 2021, 3, .	1.0	13
57	Surfactant-aided mycoremediation of soil contaminated with polycyclic aromatic hydrocarbons. Environmental Research, 2022, 209, 112926.	3.7	12
58	Biofiltration of methane from cow barns: Effects of climatic conditions and packing bed media acclimatization. Waste Management, 2018, 78, 669-676.	3.7	9
59	Enzyme polymer engineered structure strategy to enhance cross-linked enzyme aggregate stability: a step forward in laccase exploitation for cannabidiol removal from wastewater. Environmental Science and Pollution Research, 2021, 28, 44051-44063.	2.7	8
60	Hollow silica microspheres as robust immobilization carriers. Bioorganic Chemistry, 2019, 93, 102813.	2.0	7
61	Performance evaluation of biocatalytic and biostimulation approaches for the remediation of trace organic contaminants in municipal biosolids. Waste Management, 2021, 120, 373-381.	3.7	7
62	Laccase-Driven Transformation of High Priority Pesticides Without Redox Mediators: Towards Bioremediation of Contaminated Wastewaters. Frontiers in Bioengineering and Biotechnology, 2021, 9, 770435.	2.0	7
63	Emerging contaminants: A scientific challenge without borders. Science of the Total Environment, 2014, 487, 747.	3.9	6
64	Evaluation of Biological Treatments for the Adsorption of Phenol from Polluted Waters. Adsorption Science and Technology, 2012, 30, 521-532.	1.5	5
65	Regional assessment of concentrations and sources of pharmaceutically active compounds, pesticides, nitrate, and E. coli in post-glacial aquifer environments (Canada). Science of the Total Environment, 2017, 579, 557-568.	3.9	5
66	Efficiencies of selected biotreatments for the remediation of PAH in diluted bitumen contaminated soil microcosms. Biodegradation, 2021, 32, 563-576.	1.5	5
67	Aminoâ€functionalised mesoporous silica microspheres for immobilisation of Candida antarctica lipase B â€" application towards greener production of 2,5â€furandicarboxylic acid. IET Nanobiotechnology, 2020, 14, 732-738.	1.9	5
68	Mycoremediation of lignocellulosic biorefinery sludge: A reinvigorating approach for organic contaminants remediation with simultaneous production of lignocellulolytic enzyme cocktail. Bioresource Technology, 2022, 351, 127012.	4.8	5
69	Biological elimination of a high concentration of hydrogen sulfide from landfill biogas. Environmental Science and Pollution Research, 2022, 29, 431-443.	2.7	4
70	Application of laccase and hydrolases for trace organic contaminants removal from contaminated water. Environmental Advances, 2022, 8, 100243.	2.2	4
71	Biogas purification by a chemical absorption and biological oxidation process. Water, Air, and Soil Pollution, 2022, 233, 1.	1.1	3
72	Laccases from Extremophiles. Microbiology Monographs, 2020, , 213-238.	0.3	2

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73	Identification of Emerging Contaminants in Drinking Waters. Advances in Science, Technology and Innovation, 2018, , 785-787.	0.2	1
74	Immobilized Laccase: A Promising Bioremediation Tool for the Removal of Organic Contaminants in Wastewater. Microbiology Monographs, 2020, , 115-145.	0.3	1
75	Characterization of PAHs contamination from unconventional bitumen derived synthetic crude oil in soil microcosms: composition, ecotoxicity and loss rate. Fuel, 2021, 311, 122572.	3.4	1
76	Characterization of Three Different Sewage Sludge for Reuse in the Context of Sustainable Development in Algeria. Advances in Science, Technology and Innovation, 2018, , 1357-1359.	0.2	0
77	CaractÃ©risation du plomb par la mÃ©thode dâ€™Ã©chantillonnage alÃ©atoire dans un dÃ©pÃ´t de rÃ©sidus miniers et un fossÃ© routier adjacent Ã Capelton (Estrie, QuÃ©bec). DÃ©chets Sciences Et Techniques, 2010, , .	0.1	0
78	Laccase-Mediator System for the Elimination of Carbamazepine and Atrazine. , 0, , .		0
79	Evaluation of three fungal strains for biological removal of Carbamazepine and Atrazine. , 0, , .		0
80	Challenges in Applying Cross-Linked Laccase Aggregates in Bioremediation of Emerging Contaminants from Municipal Wastewater. Microbiology Monographs, 2020, , 147-171.	0.3	0