

# Hubert Cabana

## List of Publications by Citations

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77  
papers

2,190  
citations

27  
h-index

45  
g-index

83  
ext. papers

2,512  
ext. citations

6.5  
avg, IF

5.3  
L-index

#	Paper	IF	Citations
77	Preparation and characterization of cross-linked laccase aggregates and their application to the elimination of endocrine disrupting chemicals. <i>Journal of Biotechnology</i> , <b>2007</b> , 132, 23-31	3.7	181
76	Elimination of endocrine disrupting chemicals nonylphenol and bisphenol A and personal care product ingredient triclosan using enzyme preparation from the white rot fungus <i>Coriolopsis polyzona</i> . <i>Chemosphere</i> , <b>2007</b> , 67, 770-8	8.4	171
75	Elimination of Endocrine Disrupting Chemicals using White Rot Fungi and their Lignin Modifying Enzymes: A Review. <i>Engineering in Life Sciences</i> , <b>2007</b> , 7, 429-456	3.4	132
74	Laccase immobilization and insolubilization: from fundamentals to applications for the elimination of emerging contaminants in wastewater treatment. <i>Critical Reviews in Biotechnology</i> , <b>2013</b> , 33, 404-18	9.4	117
73	Magnetic cross-linked laccase aggregates--bioremediation tool for decolorization of distinct classes of recalcitrant dyes. <i>Science of the Total Environment</i> , <b>2014</b> , 487, 830-9	10.2	113
72	Characterization of combined cross-linked enzyme aggregates from laccase, versatile peroxidase and glucose oxidase, and their utilization for the elimination of pharmaceuticals. <i>Science of the Total Environment</i> , <b>2014</b> , 481, 90-9	10.2	101
71	Immobilization of laccase from the white rot fungus <i>Coriolopsis polyzona</i> and use of the immobilized biocatalyst for the continuous elimination of endocrine disrupting chemicals. <i>Bioresource Technology</i> , <b>2009</b> , 100, 3447-58	11	101
70	Utilization of cross-linked laccase aggregates in a perfusion basket reactor for the continuous elimination of endocrine-disrupting chemicals. <i>Biotechnology and Bioengineering</i> , <b>2009</b> , 102, 1582-92	4.9	86
69	Synthesis and characterization of combined cross-linked laccase and tyrosinase aggregates transforming acetaminophen as a model phenolic compound in wastewaters. <i>Science of the Total Environment</i> , <b>2014</b> , 487, 748-55	10.2	81
68	Conjugation of laccase from the white rot fungus <i>Trametes versicolor</i> to chitosan and its utilization for the elimination of triclosan. <i>Bioresource Technology</i> , <b>2011</b> , 102, 1656-62	11	68
67	Hybrid bioreactor (HBR) of hollow fiber microfilter membrane and cross-linked laccase aggregates eliminate aromatic pharmaceuticals in wastewaters. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 280, 662-70	12.8	56
66	Towards high potential magnetic biocatalysts for on-demand elimination of pharmaceuticals. <i>Bioresource Technology</i> , <b>2016</b> , 200, 81-9	11	53
65	Laccase-Based CLEAs: Chitosan as a Novel Cross-Linking Agent. <i>Enzyme Research</i> , <b>2011</b> , 2011, 376015	2.4	51
64	Adsorptive potential of dispersible chitosan coated iron-oxide nanocomposites toward the elimination of arsenic from aqueous solution. <i>Chemical Engineering Research and Design</i> , <b>2016</b> , 104, 185-195	5.5	48
63	Formation of enzyme polymer engineered structure for laccase and cross-linked laccase aggregates stabilization. <i>Bioresource Technology</i> , <b>2013</b> , 128, 640-5	11	45
62	Xenobiotic Compounds Degradation by Heterologous Expression of a <i>Trametes sanguineus</i> Laccase in <i>Trichoderma atroviride</i> . <i>PLoS ONE</i> , <b>2016</b> , 11, e0147997	3.7	40
61	Recyclable cross-linked laccase aggregates coupled to magnetic silica microbeads for elimination of pharmaceuticals from municipal wastewater. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 8929-39	5.1	39

60	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. <i>Analytica Chimica Acta</i> , <b>2015</b> , 891, 160-70	6.6	38
59	A hybrid bioreactor based on insolubilized tyrosinase and laccase catalysis and microfiltration membrane remove pharmaceuticals from wastewater. <i>Chemosphere</i> , <b>2018</b> , 201, 749-755	8.4	37
58	Cyanotoxins at low doses induce apoptosis and inflammatory effects in murine brain cells: Potential implications for neurodegenerative diseases. <i>Toxicology Reports</i> , <b>2016</b> , 3, 180-189	4.8	37
57	Characterisation of electron beam irradiation-immobilised laccase for application in wastewater treatment. <i>Science of the Total Environment</i> , <b>2018</b> , 624, 309-322	10.2	34
56	Simple screening protocol for identification of potential mycoremediation tools for the elimination of polycyclic aromatic hydrocarbons and phenols from hyperalkalophile industrial effluents. <i>Journal of Environmental Management</i> , <b>2017</b> , 198, 1-11	7.9	33
55	First demonstration that ascomycetous halophilic fungi ( <i>Aspergillus sydowii</i> and <i>Aspergillus destruens</i> ) are useful in xenobiotic mycoremediation under high salinity conditions. <i>Bioresource Technology</i> , <b>2019</b> , 279, 287-296	11	33
54	Evaluation of the efficiency of <i>Trametes hirsuta</i> for the removal of multiple pharmaceutical compounds under low concentrations relevant to the environment. <i>Bioresource Technology</i> , <b>2014</b> , 171, 199-202	11	33
53	Synergetic integration of laccase and versatile peroxidase with magnetic silica microspheres towards remediation of biorefinery wastewater. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 17993-18009	5.1	30
52	The NSERC Canadian Lake Pulse Network: A national assessment of lake health providing science for water management in a changing climate. <i>Science of the Total Environment</i> , <b>2019</b> , 695, 133668	10.2	29
51	Removal of acetaminophen and carbamazepine in single and binary systems with immobilized laccase from <i>Trametes hirsuta</i> . <i>Biocatalysis and Biotransformation</i> , <b>2017</b> , 35, 51-62	2.5	28
50	Selective bioaccumulation of neonicotinoids and sub-lethal effects in the earthworm <i>Eisenia andrei</i> exposed to environmental concentrations in an artificial soil. <i>Chemosphere</i> , <b>2017</b> , 186, 839-847	8.4	27
49	Reduction of odours in pilot-scale landfill biocovers. <i>Waste Management</i> , <b>2014</b> , 34, 770-9	8.6	21
48	Evaluation of the efficiency of an experimental biocover to reduce BTEX emissions from landfill biogas. <i>Chemosphere</i> , <b>2014</b> , 97, 98-101	8.4	20
47	Effect of soil organic matter (SOM) on the degradation of polycyclic aromatic hydrocarbons using <i>Pleurotus dryinus</i> IBB 903-A microcosm study. <i>Journal of Environmental Management</i> , <b>2020</b> , 260, 110153	7.9	19
46	Remediation of bio-refinery wastewater containing organic and inorganic toxic pollutants by adsorption onto chitosan-based magnetic nanosorbent. <i>Water Quality Research Journal of Canada</i> , <b>2020</b> , 55, 36-51	1.7	19
45	Pharmaceuticals and pesticides in rural community drinking waters of Quebec, Canada: a regional study on the susceptibility to source contamination. <i>Water Quality Research Journal of Canada</i> , <b>2019</b> , 54, 88-103	1.7	18
44	Intracellular Enzymes Contribution to the Biocatalytic Removal of Pharmaceuticals by <i>Trametes hirsuta</i> . <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 897-904	10.3	17
43	Mycoremediation of phenols and polycyclic aromatic hydrocarbons from a biorefinery wastewater and concomitant production of lignin modifying enzymes. <i>Journal of Cleaner Production</i> , <b>2020</b> , 253, 119810	10.3	17

42	Phosphate Adsorption onto Chitosan-Based Hydrogel Microspheres. <i>Adsorption Science and Technology</i> , <b>2014</b> , 32, 557-569	3.6	16
41	Systemic Coconjugating of Cross-Linked Enzyme Aggregates of <i>Candida antarctica</i> Lipase B (Novozyme 435) for the Biomanufacturing of Rhamnolipids. <i>Journal of Surfactants and Detergents</i> , <b>2019</b> , 22, 477-490	1.9	15
40	Development of efficient and sustainable added-value products from municipal biosolids through an industrially feasible process. <i>Journal of Cleaner Production</i> , <b>2020</b> , 266, 121749	10.3	15
39	Transcriptomic analysis of polyaromatic hydrocarbon degradation by the halophilic fungus <i>Aspergillus sydowii</i> at hypersaline conditions. <i>Environmental Microbiology</i> , <b>2021</b> , 23, 3435-3459	5.2	13
38	Accumulation and sublethal effects of triclosan and its transformation product methyl-triclosan in the earthworm <i>Eisenia andrei</i> exposed to environmental concentrations in an artificial soil. <i>Environmental Toxicology and Chemistry</i> , <b>2018</b> , 37, 1940-1948	3.8	12
37	Valorization of the Spent Biomass of <i>Pleurotus mutilus</i> Immobilized as Calcium Alginate Biobeads for Methylene Blue Biosorption. <i>Environmental Processes</i> , <b>2016</b> , 3, 413-430	2.8	12
36	Purification and characterization of latent polyphenol oxidase from truffles ( <i>Terfezia arenaria</i> ). <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 145, 885-893	7.9	11
35	Monitoring of prenatal exposure to organic and inorganic contaminants using meconium from an Eastern Canada cohort. <i>Environmental Research</i> , <b>2019</b> , 171, 44-51	7.9	10
34	Two Novel Biofilters to Remove Volatile Organic Compounds Emitted by Landfill Sites. <i>Water, Air, and Soil Pollution</i> , <b>2016</b> , 227, 1	2.6	9
33	Adverse effects of atrazine, DCMU and metolachlor on phytoplankton cultures and communities at environmentally relevant concentrations using Fast Repetition Rate Fluorescence. <i>Science of the Total Environment</i> , <b>2020</b> , 712, 136239	10.2	7
32	Remediation of trace organic contaminants from biosolids: Influence of various pre-treatment strategies prior to <i>Bacillus subtilis</i> aerobic digestion. <i>Chemical Engineering Journal</i> , <b>2021</b> , 419, 129966	14.7	7
31	Evaluation of bio-fenton oxidation approach for the remediation of trichloroethylene from aqueous solutions. <i>Journal of Environmental Management</i> , <b>2020</b> , 270, 110899	7.9	6
30	Development of a magnetically separable co-immobilized laccase and versatile peroxidase system for the conversion of lignocellulosic biomass to vanillin. <i>Journal of the Air and Waste Management Association</i> , <b>2020</b> , 70, 1252-1259	2.4	6
29	Utilization of biosolids for glucose oxidase production: A potential bio-fenton reagent for advanced oxidation process for removal of pharmaceutically active compounds. <i>Journal of Environmental Management</i> , <b>2020</b> , 271, 110995	7.9	6
28	Hollow silica microspheres as robust immobilization carriers. <i>Bioorganic Chemistry</i> , <b>2019</b> , 93, 102813	5.1	6
27	Tracking gene expression, metabolic profiles, and biochemical analysis in the halotolerant basidiomycetous yeast <i>Rhodotorula mucilaginosa</i> EXF-1630 during benzo[a]pyrene and phenanthrene biodegradation under hypersaline conditions. <i>Environmental Pollution</i> , <b>2021</b> , 271, 116358	9.3	6
26	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. <i>Chemosphere</i> , <b>2022</b> , 286, 131847	8.4	6
25	Emerging contaminants: a scientific challenge without borders. <i>Science of the Total Environment</i> , <b>2014</b> , 487, 747	10.2	5

24	Regional assessment of concentrations and sources of pharmaceutically active compounds, pesticides, nitrate, and E. coli in post-glacial aquifer environments (Canada). <i>Science of the Total Environment</i> , <b>2017</b> , 579, 557-568	10.2	5
23	Evaluation of Biological Treatments for the Adsorption of Phenol from Polluted Waters. <i>Adsorption Science and Technology</i> , <b>2012</b> , 30, 521-532	3.6	5
22	Preparation of highly diffusible porous cross-linked lipase B from <i>Candida antarctica</i> conjugates: Advances in mass transfer and application in transesterification of 5-Hydroxymethylfurfural. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 170, 583-592	7.9	5
21	Enzyme polymer engineered structure strategy to enhance cross-linked enzyme aggregate stability: a step forward in laccase exploitation for cannabidiol removal from wastewater. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 44051-44063	5.1	4
20	Predicting atrazine concentrations in waterbodies across the contiguous United States: The importance of land use, hydrology, and water physicochemistry. <i>Limnology and Oceanography</i> , <b>2020</b> , 65, 2966-2983	4.8	3
19	Performance evaluation of biocatalytic and biostimulation approaches for the remediation of trace organic contaminants in municipal biosolids. <i>Waste Management</i> , <b>2021</b> , 120, 373-381	8.6	3
18	Biofiltration of methane from cow barns: Effects of climatic conditions and packing bed media acclimatization. <i>Waste Management</i> , <b>2018</b> , 78, 669-676	8.6	3
17	Recent Developments in the Immobilization of Laccase on Carbonaceous Supports for Environmental Applications - A Critical Review.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 778239	5.8	3
16	Insolubilization of <i>Trametes versicolor</i> laccase as cross-linked enzyme aggregates for the remediation of trace organic contaminants from municipal wastewater.. <i>Environmental Research</i> , <b>2022</b> , 209, 112882	7.9	2
15	Surfactant-aided mycoremediation of soil contaminated with polycyclic aromatic hydrocarbons.. <i>Environmental Research</i> , <b>2022</b> , 209, 112926	7.9	2
14	Integrated Biotechnology Management of Biosolids: Sustainable Ways to Produce Value-Added Products. <i>Frontiers in Water</i> , <b>2021</b> , 3,	2.6	2
13	Laccases from Extremophiles. <i>Microbiology Monographs</i> , <b>2020</b> , 213-238	0.8	2
12	Amino-functionalised mesoporous silica microspheres for immobilisation of lipase B - application towards greener production of 2,5-furandicarboxylic acid. <i>IET Nanobiotechnology</i> , <b>2020</b> , 14, 732-738	2	2
11	Efficiencies of selected biotreatments for the remediation of PAH in diluted bitumen contaminated soil microcosms. <i>Biodegradation</i> , <b>2021</b> , 32, 563-576	4.1	2
10	Identification of Emerging Contaminants in Drinking Waters. <i>Advances in Science, Technology and Innovation</i> , <b>2018</b> , 785-787	0.3	1
9	Laccase-Driven Transformation of High Priority Pesticides Without Redox Mediators: Towards Bioremediation of Contaminated Wastewaters.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 770435	5.8	1
8	Immobilized Laccase: A Promising Bioremediation Tool for the Removal of Organic Contaminants in Wastewater. <i>Microbiology Monographs</i> , <b>2020</b> , 115-145	0.8	1
7	Biological elimination of a high concentration of hydrogen sulfide from landfill biogas. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 1	5.1	1

6	Mycoremediation of lignocellulosic biorefinery sludge: A reinvigorating approach for organic contaminants remediation with simultaneous production of lignocellulolytic enzyme cocktail.. <i>Bioresource Technology</i> , <b>2022</b> , 351, 127012	11	1
5	Characterization of PAHs contamination from unconventional bitumen derived synthetic crude oil in soil microcosms: composition, ecotoxicity and loss rate. <i>Fuel</i> , <b>2021</b> , 311, 122572	7.1	0
4	Biogas purification by a chemical absorption and biological oxidation process. <i>Water, Air, and Soil Pollution</i> , <b>2022</b> , 233, 1	2.6	0
3	Application of Laccase and Hydrolases for Trace Organic Contaminant Removal from Contaminated Water. <i>Environmental Advances</i> , <b>2022</b> , 100243	3.5	0
2	Characterization of Three Different Sewage Sludge for Reuse in the Context of Sustainable Development in Algeria. <i>Advances in Science, Technology and Innovation</i> , <b>2018</b> , 1357-1359	0.3	
1	Challenges in Applying Cross-Linked Laccase Aggregates in Bioremediation of Emerging Contaminants from Municipal Wastewater. <i>Microbiology Monographs</i> , <b>2020</b> , 147-171	0.8	