Philippe FranÃ§ois-Xavier Corvini

List of Publications by Year
in descending order

47 papers	2,337 citations	218381 26 h-index	233125 45 g-index
48 all docs	48 docs citations	48 times ranked	2703 citing authors

#	ARTICLE	IF	CITATIONS
1	Biodegradation of sulfamethoxazole and other sulfonamides by Achromobacter denitrificans PR1. Journal of Hazardous Materials, 2014, 280, 741-749.	6.5	168
2	Biodegradation of Polyethylene and Polystyrene by Greater Wax Moth Larvae (<i>Galleria) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td Environmental Science & Technology, 2020, 54, 2821-2831.	4.6	154
3	A synthetic nanomaterial for virus recognition produced by surface imprinting. Nature Communications, 2013, 4, 1503.	5.8	136
4	Selenate removal in methanogenic and sulfate-reducing upflow anaerobic sludge bed reactors. Water Research, 2008, 42, 2184-2194.	5.3	133
5	Biodegradation of weathered polystyrene films in seawater microcosms. Scientific Reports, 2017, 7, 17991.	1.6	121
6	Biotransformation of Sulfonamide Antibiotics in Activated Sludge: The Formation of Pterin-Conjugates Leads to Sustained Risk. Environmental Science & Technology, 2018, 52, 6265-6274.	4.6	101
7	Isolation of Bacterial Strains Capable of Sulfamethoxazole Mineralization from an Acclimated Membrane Bioreactor. Applied and Environmental Microbiology, 2012, 78, 277-279.	1.4	100
8	Degradation and Metabolism of Tetrabromobisphenol A (TBBPA) in Submerged Soil and Soilâ€“Plant Systems. Environmental Science & Technology, 2014, 48, 14291-14299.	4.6	98
9	Biodegradation of antibiotics: The new resistance determinants â€“ part I. New Biotechnology, 2020, 54, 34-51.	2.4	97
10	Laccases to take on the challenge of emerging organic contaminants in wastewater. Applied Microbiology and Biotechnology, 2014, 98, 9931-9952.	1.7	92
11	Biodegradation of mixture of plastic films by tailored marine consortia. Journal of Hazardous Materials, 2019, 375, 33-42.	6.5	91
12	Emerging chemicals and the evolution of biodegradation capacities and pathways in bacteria. Current Opinion in Biotechnology, 2014, 27, 8-14.	3.3	82
13	Development of tailored indigenous marine consortia for the degradation of naturally weathered polyethylene films. PLoS ONE, 2017, 12, e0183984.	1.1	82
14	Mineralisation of 14C-labelled polystyrene plastics by Penicillium variabile after ozonation pre-treatment. New Biotechnology, 2017, 38, 101-105.	2.4	81
15	Fate of Tetrabromobisphenol A (TBBPA) and Formation of Ester- and Ether-Linked Bound Residues in an Oxic Sandy Soil. Environmental Science & Technology, 2015, 49, 12758-12765.	4.6	77
16	FMNH2-dependent monooxygenases initiate catabolism of sulfonamides in Microbacterium sp. strain BR1 subsisting on sulfonamide antibiotics. Scientific Reports, 2017, 7, 15783.	1.6	66
17	Elucidation of biotransformation of diclofenac and 4â€²-hydroxydiclofenac during biological wastewater treatment. Journal of Hazardous Materials, 2016, 301, 443-452.	6.5	64
18	Fate and metabolism of tetrabromobisphenol A in soil slurries without and with the amendment with the alkylphenol degrading bacterium Sphingomonas sp. strain TTNP3. Environmental Pollution, 2014, 193, 181-188.	3.7	60

#	Article	IF	Citations
19	Enhanced Transformation of Tetrabromobisphenol A by Nitrifiers in Nitrifying Activated Sludge. Environmental Science & Technology, 2015, 49, 4283-4292.	4.6	53
20	Biodegradation of antibiotics: The new resistance determinants â€“ part II. New Biotechnology, 2020, 54, 13-27.	2.4	53
21	Advanced enzymatic elimination of phenolic contaminants in wastewater: a nano approach at field scale. Applied Microbiology and Biotechnology, 2014, 98, 3305-3316.	1.7	49
22	Enzyme Shielding in an Enzymeâ€thin and Soft Organosilica Layer. Angewandte Chemie - International Edition, 2016, 55, 6285-6289.	7.2	39
23	Nootropic drugs: Methylphenidate, modafinil and piracetam â€“ Population use trends, occurrence in the environment, ecotoxicity and removal methods â€“ A review. Chemosphere, 2019, 233, 771-785.	4.2	38
24	Degradation of sulfonamide antibiotics by Microbacterium sp. strain BR1 â€“ elucidating the downstream pathway. New Biotechnology, 2015, 32, 710-715.	2.4	37
25	Biodegradation of sulfamethoxazole by a bacterial consortium of Achromobacter denitrificans PR1 and Leucobacter sp. GP. Applied Microbiology and Biotechnology, 2018, 102, 10299-10314.	1.7	36
26	Living with sulfonamides: a diverse range of mechanisms observed in bacteria. Applied Microbiology and Biotechnology, 2020, 104, 10389-10408.	1.7	33
27	Reversibility of enzymatic reactions might limit biotransformation of organic micropollutants. Science of the Total Environment, 2019, 665, 574-578.	3.9	25
28	A cyclodextrin-based polymer for sensing diclofenac in water. Journal of Hazardous Materials, 2015, 299, 412-416.	6.5	20
29	Formation, characterization, and mineralization of bound residues of tetrabromobisphenol A (TBBPA) in silty clay soil under oxic conditions. Science of the Total Environment, 2017, 599-600, 332-339.	3.9	20
30	Design of Cyclodextrin-Based Photopolymers with Enhanced Molecular Recognition Properties: A Template-Free High-Throughput Approach. Macromolecules, 2012, 45, 5692-5697.	2.2	15
31	Isolation of two Ochrobactrum sp. strains capable of degrading the nootropic drugâ€”Piracetam. New Biotechnology, 2018, 43, 37-43.	2.4	15
32	Release of tetrabromobisphenol A (TBBPA)-derived non-extractable residues in oxic soil and the effects of the TBBPA-degrading bacterium Ochrobactrum sp. strain T. Journal of Hazardous Materials, 2019, 378, 120666.	6.5	15
33	Comparative genomics reveals a novel genetic organization of the sad cluster in the sulfonamide-degrader â€˜Candidatus Leucobacter sulfamidivoraxâ€™ strain GP. BMC Genomics, 2019, 20, 885.	1.2	13
34	Biotransformation of ritalinic acid by laccase in the presence of mediator TEMPO. New Biotechnology, 2018, 43, 44-52.	2.4	11
35	Bacterial isolates degrading ritalinic acidâ€”human metabolite of neuro enhancer methylphenidate. New Biotechnology, 2018, 43, 30-36.	2.4	10
36	Influence of the geophagous earthworm Aporrectodea sp. on fate of bisphenol A and a branched 4-nonylphenol isomer in soil. Science of the Total Environment, 2019, 693, 133574.	3.9	10

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37	Ipso-substitution â€" the hidden gate to xenobiotic degradation pathways. Current Opinion in Biotechnology, 2015, 33, 220-227.	3.3	9
38	Fate of 4-bromodiphenyl ether (BDE3) in soil and the effects of co-existed copper. Environmental Pollution, 2020, 261, 114214.	3.7	6
39	Partially shielded enzymes capable of processing large protein substrates. Chemical Communications, 2020, 56, 5170-5173.	2.2	6
40	Fate of lower-brominated diphenyl ethers (LBDEs) in a red soil â€" Application of 14C-labelling. Science of the Total Environment, 2020, 721, 137735.	3.9	5
41	The crystal structures of native hydroquinone 1,2-dioxygenase from Sphingomonas sp. TTNP3 and of substrate and inhibitor complexes. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2017, 1865, 520-530.	1.1	4
42	Degradation and transformation of nitrated nonylphenol isomers in activated sludge under nitrifying and heterotrophic conditions. Journal of Hazardous Materials, 2020, 393, 122438.	6.5	4
43	Biodegradation of ritalinic acid by Nocardioides sp. â€" Novel imidazole-based alkaloid metabolite as a potential marker in sewage epidemiology. Journal of Hazardous Materials, 2020, 385, 121554.	6.5	3
44	Transformation of catechol coupled to redox alteration of humic acids and the effects of Cu and Fe cations. Science of the Total Environment, 2020, 725, 138245.	3.9	3
45	Fate of 2,4,6-Tribromophenol in Soil Under Different Redox Conditions. Bulletin of Environmental Contamination and Toxicology, 2020, 104, 707-713.	1.3	2
46	Environmental Sciences at Universities of Applied Sciences. Chimia, 2018, 72, 652.	0.3	0
47	A proteolytic nanobiocatalyst with built-in disulphide reducing properties. RSC Advances, 2021, 11, 810-816.	1.7	0