Jacques Mathieu

List of Publications by Year in descending order

34	1,865	331259 21	377514 34
papers	citations	h-index	g-index

34	34	34	2401
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Persistence of Extracellular DNA in River Sediment Facilitates Antibiotic Resistance Gene Propagation. Environmental Science & Technology, 2014, 48, 71-78.	4.6	345
2	Antibiotic resistance genes from livestock waste: occurrence, dissemination, and treatment. Npj Clean Water, 2020, 3, .	3.1	242
3	Pyrosequencing reveals higher impact of silver nanoparticles than Ag+ on the microbial community structure of activated sludge. Water Research, 2014, 48, 317-325.	5.3	155
4	Proliferation of Multidrug-Resistant New Delhi Metallo-Î²-lactamase Genes in Municipal Wastewater Treatment Plants in Northern China. Environmental Science and Technology Letters, 2014, 1, 26-30.	3.9	133
5	Isolation of Polyvalent Bacteriophages by Sequential Multiple-Host Approaches. Applied and Environmental Microbiology, 2016, 82, 808-815.	1.4	99
6	Pyrolytic Treatment and Fertility Enhancement of Soils Contaminated with Heavy Hydrocarbons. Environmental Science & Technology, 2016, 50, 2498-2506.	4.6	89
7	Going Viral: Emerging Opportunities for Phage-Based Bacterial Control in Water Treatment and Reuse. Accounts of Chemical Research, 2019, 52, 849-857.	7.6	61
8	Widespread Distribution of Soluble Di-Iron Monooxygenase (SDIMO) Genes in Arctic Groundwater Impacted by 1,4-Dioxane. Environmental Science & Technology, 2013, 47, 9950-9958.	4.6	51
9	Nickel and cadmium ions inhibit quorum sensing and biofilm formation without affecting viability in Burkholderia multivorans. International Biodeterioration and Biodegradation, 2014, 91, 82-87.	1.9	51
10	The Abundance of Tetrahydrofuran/Dioxane Monooxygenase Genes (thmA/dxmA) and 1,4-Dioxane Degradation Activity Are Significantly Correlated at Various Impacted Aquifers. Environmental Science and Technology Letters, 2014, 1, 122-127.	3.9	49
11	1,4-Dioxane Biodegradation by Mycobacterium dioxanotrophicus PH-06 Is Associated with a Group-6 Soluble Di-Iron Monooxygenase. Environmental Science and Technology Letters, 2017, 4, 494-499.	3.9	45
12	Microbial Dynamics and Control in Shale Gas Production. Environmental Science and Technology Letters, 2014, 1, 465-473.	3.9	44
13	Control of Antibiotic-Resistant Bacteria in Activated Sludge Using Polyvalent Phages in Conjunction with a Production Host. Environmental Science and Technology Letters, 2017, 4, 137-142.	3.9	43
14	Enhanced biofilm penetration for microbial control by polyvalent phages conjugated with magnetic colloidal nanoparticle clusters (CNCs). Environmental Science: Nano, 2017, 4, 1817-1826.	2.2	43
15	1,4â€Dioxaneâ€degrading consortia can be enriched from uncontaminated soils: prevalence of Mycobacterium and soluble diâ€iron monooxygenase genes. Microbial Biotechnology, 2018, 11, 189-198.	2.0	43
16	Suppression of Enteric Bacteria by Bacteriophages: Importance of Phage Polyvalence in the Presence of Soil Bacteria. Environmental Science & Technology, 2017, 51, 5270-5278.	4.6	42
17	Hindrance of 1,4-dioxane biodegradation in microcosms biostimulated with inducing or non-inducing auxiliary substrates. Water Research, 2017, 112, 217-225.	5.3	37
18	Discerning the Relevance of Superoxide in PFOA Degradation. Environmental Science and Technology Letters, 2020, 7, 653-658.	3.9	36

#	Article	IF	Citations
19	Microbial degradation of 7-ketocholesterol. Biodegradation, 2008, 19, 807-813.	1.5	25
20	Bacteriophages from Arsenic-Resistant Bacteria Transduced Resistance Genes, which Changed Arsenic Speciation and Increased Soil Toxicity. Environmental Science and Technology Letters, 2019, 6, 675-680.	3.9	25
21	Increased resistance to oxysterol cytotoxicity in fibroblasts transfected with a lysosomally targeted Chromobacterium oxidase. Biotechnology and Bioengineering, 2012, 109, 2409-2415.	1.7	22
22	Medical bioremediation of age-related diseases. Microbial Cell Factories, 2009, 8, 21.	1.9	21
23	Medical Bioremediation: A Concept Moving Toward Reality. Rejuvenation Research, 2009, 12, 411-419.	0.9	20
24	Whole-Genome Sequence of the 1,4-Dioxane-Degrading Bacterium Mycobacterium dioxanotrophicus PH-06. Genome Announcements, 2017, 5, .	0.8	19
25	Detection and cell sorting of Pseudonocardia species by fluorescence in situ hybridization and flow cytometry using 16S rRNA-targeted oligonucleotide probes. Applied Microbiology and Biotechnology, 2018, 102, 3375-3386.	1.7	19
26	Bacterial Endospores as Phage Genome Carriers and Protective Shells. Applied and Environmental Microbiology, 2018, 84, .	1.4	17
27	Bioaugmenting the poplar rhizosphere to enhance treatment of 1,4-dioxane. Science of the Total Environment, 2020, 744, 140823.	3.9	17
28	Elucidating the genetic basis for Escherichia coli defense against silver toxicity using mutant arrays. Environmental Toxicology and Chemistry, 2014, 33, 993-997.	2.2	16
29	Renaissance for Phage-Based Bacterial Control. Environmental Science & Technology, 2022, 56, 4691-4701.	4.6	15
30	Rapid Metabolism of 1,4-Dioxane to below Health Advisory Levels by Thiamine-Amended Rhodococcus ruber Strain 219. Environmental Science and Technology Letters, 2021, 8, 975-980.	3.9	11
31	Recombination-assisted megaprimer (RAM) cloning. MethodsX, 2014, 1, 23-29.	0.7	10
32	2-Hydroxypropyl-beta-cyclodextrin (HPÎ²CD) reduces age-related lipofuscin accumulation through a cholesterol-associated pathway. Scientific Reports, 2017, 7, 2197.	1.6	10
33	Enhanced long-term attenuation of 1,4-dioxane in bioaugmented flow-through aquifer columns. Biodegradation, 2020, 31, 201-211.	1.5	7
34	Comment on â€œMechanistic Understanding of Superoxide Radical-Mediated Degradation of Perfluorocarboxylic Acidsâ€• Environmental Science & Technology, 2022, 56, 5287-5288.	4.6	3