Matthew J Lee

List of Publications by Year
in descending order

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39 papers	1,301 citations	430874 18 h-index	361022 35 g-index
42 all docs	42 docs citations	42 times ranked	1519 citing authors

#	Article	IF	Citations
1	Electron shuttles in biotechnology. Current Opinion in Biotechnology, 2009, 20, 633-641.	6.6	263
2	Organohalide Respiring Bacteria and Reductive Dehalogenases: Key Tools in Organohalide Bioremediation. Frontiers in Microbiology, 2016, 7, 249.	3.5	132
3	Complete chloroform dechlorination by organochlorine respiration and fermentation. Environmental Microbiology, 2012, 14, 883-894.	3.8	94
4	Reductive Dehalogenases Come of Age in Biological Destruction of Organohalides. Trends in Biotechnology, 2015, 33, 595-610.	9.3	91
5	Novel phenazine crystals enable direct electron transfer to methanogens in anaerobic digestion by redox potential modulation. Energy and Environmental Science, 2016, 9, 644-655.	30.8	69
6	Long-term succession in a coal seam microbiome during in situ biostimulation of coalbed-methane generation. ISME Journal, 2019, 13, 632-650.	9.8	57
7	Synthesis, transport and accumulation of quinolizidine alkaloids in Lupinus albus L. and L. angustifolius L.. Journal of Experimental Botany, 2007, 58, 935-946.	4.8	56
8	Isolation and characterization of Dehalobacter sp. strain UNSWDHB capable of chloroform and chlorinated ethane respiration. Environmental Microbiology, 2016, 18, 3092-3105.	3.8	48
9	Particles and enzymes: Combining nanoscale zero valent iron and organochlorine respiring bacteria for the detoxification of chloroethane mixtures. Journal of Hazardous Materials, 2016, 308, 106-112.	12.4	48
10	Relative Contributions of Dehalobacter and Zerovalent Iron in the Degradation of Chlorinated Methanes. Environmental Science & Technology, 2015, 49, 4481-4489.	10.0	36
11	Genomic, transcriptomic and proteomic analyses of Dehalobacter UNSWDHB in response to chloroform. Environmental Microbiology Reports, 2016, 8, 814-824.	2.4	35
12	Aliphatic organochlorine degradation in subsurface environments. Reviews in Environmental Science and Biotechnology, 2015, 14, 49-71.	8.1	26
13	Reductive Dehalogenation of Trichloromethane by Two Different Dehalobacter restrictus Strains Reveal Opposing Dual Element Isotope Effects. Environmental Science & Technology, 2019, 53, 2332-2343.	10.0	25
14	Concentration effects on biotic and abiotic processes in the removal of 1,1,2-trichloroethane and vinyl chloride using carbon-amended ZVI. Journal of Contaminant Hydrology, 2016, 188, 1-11.	3.3	23
15	Developing a roadmap to determine per- and polyfluoroalkyl substances-microbial population interactions. Science of the Total Environment, 2020, 712, 135994.	8.0	23
16	Isolation and Characterization of Dehalobacter sp. Strain TeCB1 Including Identification of TcbA: A Novel Tetra- and Trichlorobenzene Reductive Dehalogenase. Frontiers in Microbiology, 2017, 8, 558.	3.5	22
17	Genome Sequence of Dehalobacter UNSWDHB, a Chloroform-Dechlorinating Bacterium. Genome Announcements, 2013, 1, .	0.8	20
18	Reactive iron barriers: a niche enabling microbial dehalorespiration of 1,2-dichloroethane. Applied Microbiology and Biotechnology, 2010, 88, 319-325.	3.6	19

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19	Reductive metabolism of the important atmospheric gas isoprene by homoacetogens. ISME Journal, 2019, 13, 1168-1182.	9.8	18
20	A bacterial chloroform reductive dehalogenase: purification and biochemical characterization. Microbial Biotechnology, 2017, 10, 1640-1648.	4.2	17
21	Syntrophic Partners Enhance Growth and Respiratory Dehalogenation of Hexachlorobenzene by Dehalococcoides mccartyi Strain CBDB1. Frontiers in Microbiology, 2018, 9, 1927.	3.5	17
22	Novel dichloromethane-fermenting bacteria in the Peptococcaceae family. ISME Journal, 2021, 15, 1709-1721.	9.8	17
23	Successful microcosm demonstration of a strategy for biodegradation of a mixture of carbon tetrachloride and perchloroethene harnessing sulfate reducing and dehalorespiring bacteria. Journal of Hazardous Materials, 2012, 219-220, 169-175.	12.4	15
24	N-Acetylglucosamine Inhibits LuxR, LasR and CviR Based Quorum Sensing Regulated Gene Expression Levels. Frontiers in Microbiology, 2016, 7, 1313.	3.5	15
25	Aerobic biotransformation of 6:2 fluorotelomer sulfonate by Dietzia aurantiaca J3 under sulfur-limiting conditions. Science of the Total Environment, 2022, 829, 154587.	8.0	15
26	Whole genome sequencing of a novel, dichloromethane-fermentingPeptococcaceaefrom an enrichment culture. PeerJ, 2019, 7, e7775.	2.0	14
27	Co-occurrence of genes for aerobic and anaerobic biodegradation of dichloroethane in organochlorine-contaminated groundwater. FEMS Microbiology Ecology, 2017, 93, .	2.7	12
28	Heterologous Production and Purification of a Functional Chloroform Reductive Dehalogenase. ACS Chemical Biology, 2018, 13, 548-552.	3.4	12
29	Development of a treatment solution for reductive dechlorination of hexachloro-1,3-butadiene in vadose zone soil. Biodegradation, 2010, 21, 947-956.	3.0	11
30	Isolation, characterization and bioaugmentation of an acidotolerant 1,2-dichloroethane respiring Desulfitobacterium species from a low pH aquifer. FEMS Microbiology Ecology, 2019, 95, .	2.7	10
31	The effect of oxidative treatment on soluble compounds from Australian coal. Fuel, 2019, 257, 116071.	6.4	8
32	A process for the purification of organochlorine contaminated activated carbon: Sequential solvent purging and reductive dechlorination. Water Research, 2010, 44, 1580-1590.	11.3	7
33	Efficient Reductive Defluorination of Branched PFOS by Metalâ€“Porphyrin Complexes. Environmental Science & Technology, 2022, 56, 7830-7839.	10.0	6
34	Anaerobic microorganisms and bioremediation of organohalide pollution. Microbiology Australia, 2015, 36, 125.	0.4	5
35	Genome Sequence of Dehalobacter sp. Strain TeCB1, Able To Respire Chlorinated Benzenes. Genome Announcements, 2017, 5, .	0.8	4
36	Dehalobium species implicated in 2,3,7,8-tetrachlorodibenzo-p-dioxin dechlorination in the contaminated sediments of Sydney Harbour Estuary. Marine Pollution Bulletin, 2022, 179, 113690.	5.0	4

#	Article	IF	Citations
37	The Nature and Relevance of Solvent Stress in Microbes and Mechanisms of Tolerance. , 2017, , 201-213.		3
38	Removal of per- and polyfluoroalkyl substances (PFAS) from water by ceric(iv) ammonium nitrate. RSC Advances, 2021, 11, 17642-17645.	3.6	2
39	Method Development for DNA and Proteome SIP Analysis of Activated Sludge for Anaerobic Dichloromethane Biodegradation. Methods in Molecular Biology, 2019, 2046, 207-219.	0.9	1