

Matthew J Lee

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,301
citations

430843

18
h-index

361001

35
g-index

42
all docs

42
docs citations

42
times ranked

1519
citing authors

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

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

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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