

Michael J Manefield

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99
papers

5,651
citations

30
h-index

74
g-index

103
ext. papers

6,435
ext. citations

6.6
avg, IF

5.52
L-index

#	Paper	IF	Citations
99	Attenuation of <i>Pseudomonas aeruginosa</i> virulence by quorum sensing inhibitors. <i>EMBO Journal</i> , 2003 , 22, 3803-15	13	1019
98	RNA stable isotope probing, a novel means of linking microbial community function to phylogeny. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 5367-73	4.8	482
97	Enhanced sensitivity of DNA- and rRNA-based stable isotope probing by fractionation and quantitative analysis of isopycnic centrifugation gradients. <i>Environmental Microbiology</i> , 2004 , 6, 73-8	5.2	468
96	Quorum-sensing cross talk: isolation and chemical characterization of cyclic dipeptides from <i>Pseudomonas aeruginosa</i> and other gram-negative bacteria. <i>Molecular Microbiology</i> , 1999 , 33, 1254-66	4.1	421
95	DNA stable-isotope probing. <i>Nature Protocols</i> , 2007 , 2, 860-6	18.8	329
94	Electron shuttles in biotechnology. <i>Current Opinion in Biotechnology</i> , 2009 , 20, 633-41	11.4	215
93	RNA-based stable isotope probing and isolation of anaerobic benzene-degrading bacteria from gasoline-contaminated groundwater. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 3586-92	4.8	156
92	The roles of extracellular DNA in the structural integrity of extracellular polymeric substance and bacterial biofilm development. <i>Environmental Microbiology Reports</i> , 2013 , 5, 778-86	3.7	151
91	N-acyl-L-homoserine lactones (AHLs) affect microbial community composition and function in activated sludge. <i>Environmental Microbiology</i> , 2004 , 6, 424-33	5.2	134
90	Technical considerations for RNA-based stable isotope probing: an approach to associating microbial diversity with microbial community function. <i>Rapid Communications in Mass Spectrometry</i> , 2002 , 16, 2179-83	2.2	109
89	Influence of calcium in extracellular DNA mediated bacterial aggregation and biofilm formation. <i>PLoS ONE</i> , 2014 , 9, e91935	3.7	102
88	<i>Pseudomonas aeruginosa</i> uses type III secretion system to kill biofilm-associated amoebae. <i>ISME Journal</i> , 2008 , 2, 843-52	11.9	101
87	RNA stable-isotope probing. <i>Nature Protocols</i> , 2007 , 2, 838-44	18.8	100
86	Phenazine virulence factor binding to extracellular DNA is important for <i>Pseudomonas aeruginosa</i> biofilm formation. <i>Scientific Reports</i> , 2015 , 5, 8398	4.9	95
85	The presence and role of bacterial quorum sensing in activated sludge. <i>Microbial Biotechnology</i> , 2012 , 5, 621-33	6.3	92
84	Unlocking the microbial black box Using RNA-based stable isotope probing technologies. <i>Current Opinion in Biotechnology</i> , 2006 , 17, 67-71	11.4	87
83	Quorum sensing in context: out of molecular biology and into microbial ecology. <i>Microbiology (United Kingdom)</i> , 2002 , 148, 3762-3764	2.9	85

82	Complete chloroform dechlorination by organochlorine respiration and fermentation. <i>Environmental Microbiology</i> , 2012 , 14, 883-94	5.2	79
81	An alternative SEM drying method using hexamethyldisilazane (HMDS) for microbial cell attachment studies on sub-bituminous coal. <i>Journal of Microbiological Methods</i> , 2012 , 90, 96-9	2.8	72
80	Pyocyanin facilitates extracellular DNA binding to <i>Pseudomonas aeruginosa</i> influencing cell surface properties and aggregation. <i>PLoS ONE</i> , 2013 , 8, e58299	3.7	70
79	Functional and compositional comparison of two activated sludge communities remediating coking effluent. <i>Environmental Microbiology</i> , 2005 , 7, 715-22	5.2	70
78	¹³ CO ₂ pulse labelling of plants in tandem with stable isotope probing: methodological considerations for examining microbial function in the rhizosphere. <i>Journal of Microbiological Methods</i> , 2004 , 58, 119-29	2.8	66
77	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	35.4	50
76	Changes in metabolites, antioxidant system, and gene expression in <i>Microcystis aeruginosa</i> under sodium chloride stress. <i>Ecotoxicology and Environmental Safety</i> , 2015 , 122, 126-35	7	45
75	Identification of toluene degraders in a methanogenic enrichment culture. <i>FEMS Microbiology Ecology</i> , 2014 , 89, 625-36	4.3	40
74	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, 106-12	12.8	39
73	<i>Serratia</i> Secondary Metabolite Prodigiosin Inhibits <i>Pseudomonas aeruginosa</i> Biofilm Development by Producing Reactive Oxygen Species that Damage Biological Molecules. <i>Frontiers in Microbiology</i> , 2016 , 7, 972	5.7	36
72	RNA-stable isotope probing: from carbon flow within key microbiota to targeted transcriptomes. <i>Current Opinion in Biotechnology</i> , 2016 , 41, 83-89	11.4	35
71	Application of stable isotope tools for evaluating natural and stimulated biodegradation of organic pollutants in field studies. <i>Current Opinion in Biotechnology</i> , 2016 , 41, 99-107	11.4	34
70	Identification of ciliate grazers of autotrophic bacteria in ammonia-oxidizing activated sludge by RNA stable isotope probing. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 2203-11	4.8	32
69	Glutathione-Disrupted Biofilms of Clinical <i>Pseudomonas aeruginosa</i> Strains Exhibit an Enhanced Antibiotic Effect and a Novel Biofilm Transcriptome. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 4539-51	5.9	30
68	Investigation of the microbial metabolism of carbon dioxide and hydrogen in the kangaroo foregut by stable isotope probing. <i>ISME Journal</i> , 2014 , 8, 1855-65	11.9	29
67	Bacterial and fungal community composition over time in chicken litter with high or low moisture content. <i>British Poultry Science</i> , 2012 , 53, 561-9	1.9	29
66	Locked nucleic acid molecular beacon for multiplex detection of loop mediated isothermal amplification. <i>Sensors and Actuators B: Chemical</i> , 2018 , 268, 255-263	8.5	28
65	Isolation and characterization of <i>Dehalobacter</i> sp. strain UNSWDHB capable of chloroform and chlorinated ethane respiration. <i>Environmental Microbiology</i> , 2016 , 18, 3092-105	5.2	28

64	Insights into the fate of a ¹³ C labelled phenol pulse for stable isotope probing (SIP) experiments. <i>Journal of Microbiological Methods</i> , 2007 , 69, 340-4	2.8	26
63	Design, synthesis and evaluation of N-aryl-glyoxamide derivatives as structurally novel bacterial quorum sensing inhibitors. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 680-693	3.9	25
62	Acylated homoserine lactones in the environment: chameleons of bioactivity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007 , 362, 1235-40	5.8	24
61	Long-term succession in a coal seam microbiome during in situ biostimulation of coalbed-methane generation. <i>ISME Journal</i> , 2019 , 13, 632-650	11.9	24
60	Synthesis and biological evaluation of N-naphthoyl-phenylglyoxamide-based small molecular antimicrobial peptide mimics as novel antimicrobial agents and biofilm inhibitors. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 3623-37	3.9	23
59	An appraisal of methods for linking environmental processes to specific microbial taxa. <i>Reviews in Environmental Science and Biotechnology</i> , 2010 , 9, 153-185	13.9	23
58	Relative contributions of Dehalobacter and zerovalent iron in the degradation of chlorinated methanes. <i>Environmental Science & Technology</i> , 2015 , 49, 4481-9	10.3	22
57	Aliphatic organochlorine degradation in subsurface environments. <i>Reviews in Environmental Science and Biotechnology</i> , 2015 , 14, 49-71	13.9	20
56	Colonial architecture in mixed species assemblages affects AHL mediated gene expression. <i>FEMS Microbiology Letters</i> , 2005 , 244, 121-7	2.9	20
55	Design and synthesis of short amphiphilic cationic peptidomimetics based on biphenyl backbone as antibacterial agents. <i>European Journal of Medicinal Chemistry</i> , 2018 , 143, 1702-1722	6.8	20
54	Amphipathic guanidine-embedded glyoxamide-based peptidomimetics as novel antibacterial agents and biofilm disruptors. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 2033-2051	3.9	19
53	Interface thermodynamic state-induced high-performance memristors. <i>Langmuir</i> , 2014 , 30, 1183-9	4	18
52	Phenazine production enhances extracellular DNA release via hydrogen peroxide generation in <i>Pseudomonas aeruginosa</i> . <i>Communicative and Integrative Biology</i> , 2013 , 6, e23570	1.7	18
51	Reactive iron barriers: a niche enabling microbial dehalorespiration of 1,2-dichloroethane. <i>Applied Microbiology and Biotechnology</i> , 2010 , 88, 319-25	5.7	18
50	Ecotoxicity of neutral red (dye) and its environmental applications. <i>Ecotoxicology and Environmental Safety</i> , 2015 , 122, 186-92	7	17
49	Isolation and Characterization of sp. Strain TeCB1 Including Identification of TcbA: A Novel Tetra- and Trichlorobenzene Reductive Dehalogenase. <i>Frontiers in Microbiology</i> , 2017 , 8, 558	5.7	17
48	Mass culture strategy for bacterial yeast co-culture for degradation of petroleum hydrocarbons in marine environment. <i>Marine Pollution Bulletin</i> , 2015 , 100, 191-199	6.7	16
47	Nutrient and acetate amendment leads to acetoclastic methane production and microbial community change in a non-producing Australian coal well. <i>Microbial Biotechnology</i> , 2018 , 11, 626-638	6.3	15

46	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	3.9	15
45	Surface analysis reveals biogenic oxidation of sub-bituminous coal by <i>Pseudomonas fluorescens</i> . <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 6443-52	5.7	14
44	Biogeochemical constraints on the origin of methane in an alluvial aquifer: evidence for the upward migration of methane from underlying coal measures. <i>Biogeosciences</i> , 2017 , 14, 215-228	4.6	14
43	Glutathione Enhances Antibiotic Efficiency and Effectiveness of DNase I in Disrupting Biofilms While Also Inhibiting Pyocyanin Activity, Thus Facilitating Restoration of Cell Enzymatic Activity, Confluence and Viability. <i>Frontiers in Microbiology</i> , 2017 , 8, 2429	5.7	14
42	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, 169-75	12.8	13
41	Developing a roadmap to determine per- and polyfluoroalkyl substances-microbial population interactions. <i>Science of the Total Environment</i> , 2020 , 712, 135994	10.2	13
40	Secondary Effects of Antibiotics on Microbial Biofilms. <i>Frontiers in Microbiology</i> , 2020 , 11, 2109	5.7	12
39	Influence of sustainability and immigration in assembling bacterial populations of known size and function. <i>Microbial Ecology</i> , 2007 , 53, 348-54	4.4	11
38	N-Acetylglucosamine Inhibits LuxR, LasR and CviR Based Quorum Sensing Regulated Gene Expression Levels. <i>Frontiers in Microbiology</i> , 2016 , 7, 1313	5.7	11
37	High-rate, High Temperature Acetotrophic Methanogenesis Governed by a Three Population Consortium in Anaerobic Bioreactors. <i>PLoS ONE</i> , 2016 , 11, e0159760	3.7	11
36	Syntrophic Partners Enhance Growth and Respiratory Dehalogenation of Hexachlorobenzene by Strain CBDB1. <i>Frontiers in Microbiology</i> , 2018 , 9, 1927	5.7	11
35	Synthesis and biological evaluation of novel acyclic and cyclic glyoxamide based derivatives as bacterial quorum sensing and biofilm inhibitors. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 5743-5755	3.9	10
34	Synthesis of antimicrobial glucosamides as bacterial quorum sensing mechanism inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2017 , 25, 1183-1194	3.4	10
33	Reductive metabolism of the important atmospheric gas isoprene by homoacetogens. <i>ISME Journal</i> , 2019 , 13, 1168-1182	11.9	10
32	Reductive Dehalogenation of Trichloromethane by Two Different Dehalobacter restrictus Strains Reveal Opposing Dual Element Isotope Effects. <i>Environmental Science & Technology</i> , 2019 , 53, 2332-2343	10.3	10
31	Metal(loid) bioaccessibility dictates microbial community composition in acid sulfate soil horizons and sulfidic drain sediments. <i>Environmental Science & Technology</i> , 2014 , 48, 8514-21	10.3	10
30	The application of a carrier-based bioremediation strategy for marine oil spills. <i>Marine Pollution Bulletin</i> , 2014 , 84, 339-46	6.7	10
29	Development of a treatment solution for reductive dechlorination of hexachloro-1,3-butadiene in vadose zone soil. <i>Biodegradation</i> , 2010 , 21, 947-56	4.1	10

28	A bacterial chloroform reductive dehalogenase: purification and biochemical characterization. <i>Microbial Biotechnology</i> , 2017 , 10, 1640-1648	6.3	9
27	Quorum Sensing Signal Synthesis May Represent a Selective Advantage Independent of Its Role in Regulation of Bioluminescence in <i>Vibrio fischeri</i> . <i>PLoS ONE</i> , 2013 , 8, e67443	3.7	9
26	Heterologous Production and Purification of a Functional Chloroform Reductive Dehalogenase. <i>ACS Chemical Biology</i> , 2018 , 13, 548-552	4.9	8
25	The ecology of RNA. <i>ISME Journal</i> , 2008 , 2, 1-2	11.9	8
24	Options for In Situ Remediation of Soil Contaminated with a Mixture of Perchlorinated Compounds. <i>Bioremediation Journal</i> , 2007 , 11, 113-124	2.3	8
23	Co-occurrence of genes for aerobic and anaerobic biodegradation of dichloroethane in organochlorine-contaminated groundwater. <i>FEMS Microbiology Ecology</i> , 2017 , 93,	4.3	7
22	Dependency of DNA extraction efficiency on cell concentration confounds molecular quantification of microorganisms in groundwater. <i>FEMS Microbiology Ecology</i> , 2018 , 94,	4.3	6
21	A process for the purification of organochlorine contaminated activated carbon: Sequential solvent purging and reductive dechlorination. <i>Water Research</i> , 2010 , 44, 1580-90	12.5	6
20	Isolation, characterization and bioaugmentation of an acidotolerant 1,2-dichloroethane respiring <i>Desulfitobacterium</i> species from a low pH aquifer. <i>FEMS Microbiology Ecology</i> , 2019 , 95,	4.3	5
19	Biomining and methanogenesis for resource extraction from asteroids. <i>Space Policy</i> , 2015 , 34, 18-22	1.4	5
18	Anaerobic microorganisms and bioremediation of organohalide pollution. <i>Microbiology Australia</i> , 2015 , 36, 125	0.8	5
17	Investigation of the microbial communities colonizing prepainted steel used for roofing and walling. <i>MicrobiologyOpen</i> , 2017 , 6, e00425	3.4	4
16	Capillary electrophoresis ribosomal RNA single-stranded conformation polymorphism: a new approach for characterization of low-diversity microbial communities. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 404, 1897-906	4.4	4
15	Direct rRNA fingerprinting, a novel method to profile low diversity microbial communities. <i>Microbial Ecology</i> , 2011 , 62, 177-87	4.4	4
14	The role of lipids in activated sludge floc formation. <i>AIMS Environmental Science</i> , 2015 , 2, 122-133	1.9	4
13	Genome Sequence of sp. Strain TeCB1, Able To Respire Chlorinated Benzenes. <i>Genome Announcements</i> , 2017 , 5,		3
12	The Nature and Relevance of Solvent Stress in Microbes and Mechanisms of Tolerance 2017 , 201-213		3
11	Constraining source attribution of methane in an alluvial aquifer with multiple recharge pathways. <i>Science of the Total Environment</i> , 2020 , 703, 134927	10.2	3

10	Exploring potential impact(s) of cerium in mining wastewater on the performance of partial-nitrification process and nitrogen conversion microflora. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 209, 111796	7	3
9	Novel dichloromethane-fermenting bacteria in the Peptococcaceae family. <i>ISME Journal</i> , 2021 , 15, 1709-1721	3.1	3
8	Microbiologically influenced stress corrosion cracking responsible for catastrophic failure of cable bolts. <i>Engineering Failure Analysis</i> , 2021 , 131, 105884	3.2	2
7	Whole genome sequencing of a novel, dichloromethane-fermenting from an enrichment culture. <i>PeerJ</i> , 2019 , 7, e7775	3.1	2
6	Synthetic biological circuit tested in spaceflight. <i>Life Sciences in Space Research</i> , 2021 , 28, 57-65	2.4	2
5	Method Development for DNA and Proteome SIP Analysis of Activated Sludge for Anaerobic Dichloromethane Biodegradation. <i>Methods in Molecular Biology</i> , 2019 , 2046, 207-219	1.4	1
4	Removal of per- and polyfluoroalkyl substances (PFAS) from water by ceric(iv) ammonium nitrate.. <i>RSC Advances</i> , 2021 , 11, 17642-17645	3.7	0
3	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	10.2	0
2	Dehalobium 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	6.7	0
1	Inferring trophic conditions in managed aquifer recharge systems from metagenomic data. <i>Science of the Total Environment</i> , 2021 , 772, 145512	10.2	