Frank E LÃ¶ffler

List of Publications by Year
in descending order

156 papers	11,592 citations	36271 51 h-index	31818 101 g-index
164 all docs	164 docs citations	164 times ranked	7655 citing authors

#	Article	IF	Citations
1	Unexpected nondenitrifier nitrous oxide reductase gene diversity and abundance in soils. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19709-19714.	3.3	502
2	Dehalococcoides mccartyi gen. nov., sp. nov., obligately organohalide-respiring anaerobic bacteria relevant to halogen cycling and bioremediation, belong to a novel bacterial class, Dehalococcoidia classis nov., order Dehalococcoidales ord. nov. and family Dehalococcoidaceae fam. nov., within the phylum Chloroflexi. International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 625-635.	0.8	502
3	Detoxification of vinyl chloride to ethene coupled to growth of an anaerobic bacterium. Nature, 2003, 424, 62-65.	13.7	461
4	Quantitative PCR Targeting 16S rRNA and Reductive Dehalogenase Genes Simultaneously Monitors Multiple Dehalococcoides Strains. Applied and Environmental Microbiology, 2006, 72, 2765-2774.	1.4	413
5	Genomics and Ecology of Novel N2O-Reducing Microorganisms. Trends in Microbiology, 2018, 26, 43-55.	3.5	388
6	Complete Detoxification of Vinyl Chloride by an Anaerobic Enrichment Culture and Identification of the Reductively Dechlorinating Population as a Dehalococcoides Species. Applied and Environmental Microbiology, 2003, 69, 996-1003.	1.4	324
7	Common principles and best practices for engineering microbiomes. Nature Reviews Microbiology, 2019, 17, 725-741.	13.6	324
8	Geobacter lovleyi sp. nov. Strain SZ, a Novel Metal-Reducing and Tetrachloroethene-Dechlorinating Bacterium. Applied and Environmental Microbiology, 2006, 72, 2775-2782.	1.4	306
9	Overview of organohalide-respiring bacteria and a proposal for a classification system for reductive dehalogenases. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120322.	1.8	266
10	Quantitative PCR Confirms Purity of Strain GT, a Novel Trichloroethene-to-Ethene-Respiring Dehalococcoides Isolate. Applied and Environmental Microbiology, 2006, 72, 1980-1987.	1.4	241
11	Graphite Electrode as a Sole Electron Donor for Reductive Dechlorination of Tetrachlorethene by <i>Geobacter lovleyi</i>. Applied and Environmental Microbiology, 2008, 74, 5943-5947.	1.4	240
12	Isolation and characterization of Dehalococcoides sp. strain FL2, a trichloroethene (TCE)- and 1,2-dichloroethene-respiring anaerobe. Environmental Microbiology, 2005, 7, 1442-1450.	1.8	237
13	Genetic Identification of a Putative Vinyl Chloride Reductase in Dehalococcoides sp. Strain BAV1. Applied and Environmental Microbiology, 2004, 70, 6347-6351.	1.4	227
14	Harnessing microbial activities for environmental cleanup. Current Opinion in Biotechnology, 2006, 17, 274-284.	3.3	218
15	Fate of Bisphenol A in Terrestrial and Aquatic Environments. Environmental Science & Technology, 2016, 50, 8403-8416.	4.6	215
16	Acetate versus Hydrogen as Direct Electron Donors To Stimulate the Microbial Reductive Dechlorination Process at Chloroethene-Contaminated Sitesâ€. Environmental Science & Technology, 2002, 36, 3945-3952.	4.6	190
17	Characterization of Two Tetrachloroethene-Reducing, Acetate-Oxidizing Anaerobic Bacteria and Their Description as Desulfuromonas michiganensis sp. nov. Applied and Environmental Microbiology, 2003, 69, 2964-2974.	1.4	188
18	Refined NrfA Phylogeny Improves PCR-Based <i>nrfA</i> Gene Detection. Applied and Environmental Microbiology, 2014, 80, 2110-2119.	1.4	186

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19	Denitrification versus respiratory ammonification: environmental controls of two competing dissimilatory NO3â^'/NO2â^' reduction pathways in <i>Shewanella loihica</i> strain PV-4. ISME Journal, 2015, 9, 1093-1104.	4.4	184
20	Localized Plasticity in the Streamlined Genomes of Vinyl Chloride Respiring Dehalococcoides. PLoS Genetics, 2009, 5, e1000714.	1.5	162
21	U(VI) Reduction to Mononuclear U(IV) by Desulfitobacterium Species. Environmental Science & Technology, 2010, 44, 4705-4709.	4.6	161
22	The Dehalococcoides Population in Sediment-Free Mixed Cultures Metabolically Dechlorinates the Commercial Polychlorinated Biphenyl Mixture Aroclor 1260. Applied and Environmental Microbiology, 2007, 73, 2513-2521.	1.4	140
23	Nitrous Oxide Reduction Kinetics Distinguish Bacteria Harboring Clade I NosZ from Those Harboring Clade II NosZ. Applied and Environmental Microbiology, 2016, 82, 3793-3800.	1.4	140
24	The Mosaic Genome of Anaeromyxobacter dehalogenans Strain 2CP-C Suggests an Aerobic Common Ancestor to the Delta-Proteobacteria. PLoS ONE, 2008, 3, e2103.	1.1	130
25	Multiple Nonidentical Reductive-Dehalogenase-Homologous Genes Are Common in Dehalococcoides. Applied and Environmental Microbiology, 2004, 70, 5290-5297.	1.4	129
26	Multiple Reductive-Dehalogenase-Homologous Genes Are Simultaneously Transcribed during Dechlorination by Dehalococcoides- Containing Cultures. Applied and Environmental Microbiology, 2005, 71, 8257-8264.	1.4	129
27	Guided cobalamin biosynthesis supports <i>Dehalococcoides mccartyi</i> reductive dechlorination activity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120320.	1.8	124
28	Solution and Microbial Controls on the Formation of Reduced U(IV) Species. Environmental Science & Technology, 2011, 45, 8336-8344.	4.6	123
29	Unexpected Specificity of Interspecies Cobamide Transfer from Geobacter spp. to Organohalide-Respiring Dehalococcoides mccartyi Strains. Applied and Environmental Microbiology, 2012, 78, 6630-6636.	1.4	123
30	Year-Round Shotgun Metagenomes Reveal Stable Microbial Communities in Agricultural Soils and Novel Ammonia Oxidizers Responding to Fertilization. Applied and Environmental Microbiology, 2018, 84, .	1.4	121
31	A Vista for Microbial Ecology and Environmental Biotechnology. Environmental Science & Technology, 2006, 40, 1096-1103.	4.6	118
32	Grape pomace compost harbors organohalide-respiring <i>Dehalogenimonas</i> species with novel reductive dehalogenase genes. ISME Journal, 2017, 11, 2767-2780.	4.4	118
33	Roadmap for naming uncultivated Archaea and Bacteria. Nature Microbiology, 2020, 5, 987-994.	5.9	115
34	Uranium(VI) Reduction by Anaeromyxobacter dehalogenans Strain 2CP-C. Applied and Environmental Microbiology, 2006, 72, 3608-3614.	1.4	112
35	Uranium isotopic fractionation factors during U(VI) reduction by bacterial isolates. Geochimica Et Cosmochimica Acta, 2014, 136, 100-113.	1.6	112
36	Sphaerochaeta globosa gen. nov., sp. nov. and Sphaerochaeta pleomorpha sp. nov., free-living, spherical spirochaetes. International Journal of Systematic and Evolutionary Microbiology, 2012, 62, 210-216.	0.8	108

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37	Coupling Aggressive Mass Removal with Microbial Reductive Dechlorination for Remediation of DNAPL Source Zones: A Review and Assessment. Environmental Health Perspectives, 2005, 113, 465-477.	2.8	94
38	Enrichment, Cultivation, and Detection of Reductively Dechlorinating Bacteria. Methods in Enzymology, 2005, 397, 77-111.	0.4	93
39	Oxygen Effect on <i>Dehalococcoides</i> Viability and Biomarker Quantification. Environmental Science & Technology, 2008, 42, 5718-5726.	4.6	93
40	Functional Characterization of Reductive Dehalogenases by Using Blue Native Polyacrylamide Gel Electrophoresis. Applied and Environmental Microbiology, 2013, 79, 974-981.	1.4	90
41	Microbial Community Changes Associated with a Shift from Reductive Dechlorination of PCE to Reductive Dechlorination of cis-DCE and VC. Environmental Science & Technology, 2000, 34, 1056-1061.	4.6	88
42	Experimental Evaluation and Mathematical Modeling of Microbially Enhanced Tetrachloroethene (PCE) Dissolution. Environmental Science & Technology, 2007, 41, 963-970.	4.6	84
43	Dichloromethane Fermentation by a Dehalobacter sp. in an Enrichment Culture Derived from Pristine River Sediment. Applied and Environmental Microbiology, 2012, 78, 1288-1291.	1.4	80
44	Denitrification by Anaeromyxobacter dehalogenans, a Common Soil Bacterium Lacking the Nitrite Reductase Genes <i>nirS</i> and <i>nirK</i>. Applied and Environmental Microbiology, 2018, 84, .	1.4	80
45	Genomic determinants of organohalide-respiration in Geobacter lovleyi, an unusual member of the Geobacteraceae. BMC Genomics, 2012, 13, 200.	1.2	76
46	Environmental proteomics reveals early microbial community responses to biostimulation at a uraniumâ€•and nitrateâ€contaminated site. Proteomics, 2013, 13, 2921-2930.	1.3	71
47	Hexavalent uranium supports growth of <i>Anaeromyxobacter dehalogenans</i> and <i>Geobacter</i> spp. with lower than predicted biomass yields. Environmental Microbiology, 2007, 9, 2885-2893.	1.8	67
48	Stimulated Microbial Reductive Dechlorination following Surfactant Treatment at the Bachman Road Siteâ€. Environmental Science & Technology, 2004, 38, 5902-5914.	4.6	60
49	Spatial and Temporal Distributions of Geobacter lovleyi and Dehalococcoides spp. during Bioenhanced PCE-NAPL Dissolution. Environmental Science & Technology, 2009, 43, 1977-1985.	4.6	59
50	The corrinoid cofactor of reductive dehalogenases affects dechlorination rates and extents in organohalide-respiring <i>Dehalococcoides mccartyi</i>. ISME Journal, 2016, 10, 1092-1101.	4.4	59
51	Purinyl-cobamide is a native prosthetic group of reductive dehalogenases. Nature Chemical Biology, 2018, 14, 8-14.	3.9	58
52	Beyond denitrification: The role of microbial diversity in controlling nitrous oxide reduction and soil nitrous oxide emissions. Global Change Biology, 2021, 27, 2669-2683.	4.2	57
53	Anaerobic Microbial Reductive Dechlorination of Tetrachloroethene to Predominatelytrans-1,2-Dichloroethene. Environmental Science & Technology, 2004, 38, 4300-4303.	4.6	56
54	Detection and Diversity of Fungal Nitric Oxide Reductase Genes (<i>p450nor</i>) in Agricultural Soils. Applied and Environmental Microbiology, 2016, 82, 2919-2928.	1.4	55

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55	Microbial activity and distribution during enhanced contaminant dissolution from a NAPL source zone. Water Research, 2008, 42, 2963-2974.	5.3	53
56	Detection and Quantification of <i>Geobacter lovleyi</i> Strain SZ: Implications for Bioremediation at Tetrachloroethene- and Uranium-Impacted Sites. Applied and Environmental Microbiology, 2007, 73, 6898-6904.	1.4	52
57	Bioaugmentation with Distinct <i>Dehalobacter</i> Strains Achieves Chloroform Detoxification in Microcosms. Environmental Science & Technology, 2014, 48, 1851-1858.	4.6	52
58	Nitrite Control over Dissimilatory Nitrate/Nitrite Reduction Pathways in Shewanella loihica Strain PV-4. Applied and Environmental Microbiology, 2015, 81, 3510-3517.	1.4	52
59	Organohalide Respiration with Chlorinated Ethenes under Low pH Conditions. Environmental Science & Technology, 2017, 51, 8579-8588.	4.6	52
60	Environmental distribution of the trichloroethene reductive dehalogenase gene (tceA) suggests lateral gene transfer among Dehalococcoides. FEMS Microbiology Ecology, 2007, 59, 206-214.	1.3	51
61	â€˜ Candidatus Dichloromethanomonas elyunquensisâ€™ gen. nov., sp. nov., a dichloromethane-degrading anaerobe of the Peptococcaceae family. Systematic and Applied Microbiology, 2017, 40, 150-159.	1.2	50
62	Dehalogenation of 4-chlorobenzoate by 4-chlorobenzoate dehalogenase from Pseudomonas sp. CBS3: An ATP/coenzyme A dependent reaction. Biochemical and Biophysical Research Communications, 1991, 176, 1106-1111.	1.0	49
63	Electron donorâ€dependent radionuclide reduction and nanoparticle formation by <i>Anaeromyxobacter dehalogenans</i> strain 2CPâ€C. Environmental Microbiology, 2009, 11, 534-543.	1.8	49
64	Microbial Colonization of an In Situ Sediment Cap and Correlation to Stratified Redox Zones. Environmental Science & Technology, 2009, 43, 66-74.	4.6	48
65	Comparative Analysis of Three Tetrachloroethene to Ethene Halorespiring Consortia Suggests Functional Redundancy. Environmental Science & Technology, 2007, 41, 2261-2269.	4.6	46
66	Effects of Elevated Temperature on <i>Dehalococcoides</i> Dechlorination Performance and DNA and RNA Biomarker Abundance. Environmental Science & Technology, 2011, 45, 712-718.	4.6	46
67	Identification of 4-Hydroxycumyl Alcohol As the Major MnO₂-Mediated Bisphenol A Transformation Product and Evaluation of Its Environmental Fate. Environmental Science & Technology, 2015, 49, 6214-6221.	4.6	46
68	Phospholipid Furan Fatty Acids and Ubiquinone-8: Lipid Biomarkers That May Protect Dehalococcoides Strains from Free Radicals. Applied and Environmental Microbiology, 2005, 71, 8426-8433.	1.4	45
69	Populations Implicated in Anaerobic Reductive Dechlorination of 1,2-Dichloropropane in Highly Enriched Bacterial Communities. Applied and Environmental Microbiology, 2004, 70, 4088-4095.	1.4	44
70	Diversity and Distribution of <i>Anaeromyxobacter</i> Strains in a Uranium-Contaminated Subsurface Environment with a Nonuniform Groundwater Flow. Applied and Environmental Microbiology, 2009, 75, 3679-3687.	1.4	44
71	Comparing On-Site to Off-Site Biomass Collection for <i>Dehalococcoides</i> Biomarker Gene Quantification To Predict in Situ Chlorinated Ethene Detoxification Potential. Environmental Science & Technology, 2010, 44, 5127-5133.	4.6	44
72	Phylogenomics Reveal the Dynamic Evolution of Fungal Nitric Oxide Reductases and Their Relationship to Secondary Metabolism. Genome Biology and Evolution, 2018, 10, 2474-2489.	1.1	44

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73	Shewanella spp. Use Acetate as an Electron Donor for Denitrification but Not Ferric Iron or Fumarate Reduction. Applied and Environmental Microbiology, 2013, 79, 2818-2822.	1.4	43
74	Identification and Environmental Distribution of <i>dcpA</i> , Which Encodes the Reductive Dehalogenase Catalyzing the Dichloroelimination of 1,2-Dichloropropane to Propene in Organohalide-Respiring Chloroflexi. Applied and Environmental Microbiology, 2014, 80, 808-818.	1.4	43
75	Chlorine Isotope Effects from Isotope Ratio Mass Spectrometry Suggest Intramolecular C-Cl Bond Competition in Trichloroethene (TCE) Reductive Dehalogenation. Molecules, 2014, 19, 6450-6473.	1.7	43
76	Bioaugmentation for chlorinated ethene detoxification: Bioaugmentation and molecular diagnostics in the bioremediation of chlorinated ethene-contaminated sites. Industrial Biotechnology, 2005, 1, 114-118.	0.5	42
77	Dehalococcoides and Reductive Dechlorination of Chlorinated Solvents. , 2013, , 39-88.		42
78	Optimization of three FISH procedures for in situ detection of anaerobic ammonium oxidizing bacteria in biological wastewater treatment. Journal of Microbiological Methods, 2009, 78, 119-126.	0.7	41
79	Quantifying the Effects of 1,1,1-Trichloroethane and 1,1-Dichloroethane on Chlorinated Ethene Reductive Dehalogenases. Environmental Science & Technology, 2011, 45, 9693-9702.	4.6	41
80	Roles of Organohalide-Respiring<i>Dehalococcoidia</i>in Carbon Cycling. MSystems, 2020, 5, .	1.7	39
81	Effects of the Nonionic Surfactant Tween 80 on Microbial Reductive Dechlorination of Chlorinated Ethenes. Environmental Science & Technology, 2007, 41, 1710-1716.	4.6	38
82	Microbial Taxonomy Run Amok. Trends in Microbiology, 2021, 29, 394-404.	3.5	38
83	Environmental Fate of the Next Generation Refrigerant 2,3,3,3-Tetrafluoropropene (HFO-1234yf). Environmental Science & Technology, 2014, 48, 13181-13187.	4.6	34
84	Respiratory Vinyl Chloride Reductive Dechlorination to Ethene in TceA-Expressing <i>Dehalococcoides mccartyi</i>. Environmental Science & Technology, 2021, 55, 4831-4841.	4.6	34
85	Quantitative real-time PCR (qPCR) detection chemistries affect enumeration of the Dehalococcoides 16S rRNA gene in groundwater. Journal of Microbiological Methods, 2012, 88, 263-270.	0.7	33
86	Normalized Quantitative PCR Measurements as Predictors for Ethene Formation at Sites Impacted with Chlorinated Ethenes. Environmental Science & Technology, 2018, 52, 13410-13420.	4.6	33
87	Fate and Origin of 1,2-Dichloropropane in an Unconfined Shallow Aquifer. Environmental Science & Technology, 2001, 35, 455-461.	4.6	32
88	Stable Carbon Isotope Fractionation of 1,2-Dichloropropane during Dichloroelimination by <i>Dehalococcoides</i> Populations. Environmental Science & Technology, 2009, 43, 6915-6919.	4.6	32
89	Viral and bacterial community responses to stimulated Fe(III)â€bioreduction during simulated subsurface bioremediation. Environmental Microbiology, 2019, 21, 2043-2055.	1.8	32
90	Dual Carbonâ€"Chlorine Isotope Analysis Indicates Distinct Anaerobic Dichloromethane Degradation Pathways in Two Members of <i>Peptococcaceae</i>. Environmental Science & Technology, 2018, 52, 8607-8616.	4.6	29

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91	Stable Carbon Isotope Enrichment Factors for <i>cis</i>-1,2-Dichloroethene and Vinyl Chloride Reductive Dechlorination by <i>Dehalococcoides</i>. Environmental Science & Technology, 2011, 45, 2951-2957.	4.6	28
92	Biologically mediated abiotic degradation (BMAD) of bisphenol A by manganese-oxidizing bacteria. Journal of Hazardous Materials, 2021, 417, 125987.	6.5	28
93	Characterization of microbial community structure and population dynamics of tetrachloroethene-dechlorinating tidal mudflat communities. Biodegradation, 2011, 22, 687-698.	1.5	27
94	A Data Mining Approach to Predict In Situ Detoxification Potential of Chlorinated Ethenes. Environmental Science & Technology, 2016, 50, 5181-5188.	4.6	27
95	Interference of ferric ions with ferrous iron quantification using the ferrozine assay. Journal of Microbiological Methods, 2013, 95, 366-367.	0.7	26
96	Resilience and recovery of Dehalococcoides mccartyi following low pH exposure. FEMS Microbiology Ecology, 2017, 93, .	1.3	26
97	Resolution of Culture <i>Clostridium bifermentans</i> DPH-1 into Two Populations, a <i>Clostridium</i> sp. and Tetrachloroethene-Dechlorinating <i>Desulfitobacterium hafniense</i> Strain JH1. Applied and Environmental Microbiology, 2008, 74, 6141-6143.	1.4	25
98	Dehalogenation of 4-chlorobenzoate. Biodegradation, 1995, 6, 203-212.	1.5	24
99	Aerobic Biodegradation of Vinyl Chloride by a Highly Enriched Mixed Culture. Biodegradation, 2004, 15, 197-204.	1.5	23
100	Mutualistic interaction between dichloromethaneâ€•and chloromethaneâ€degrading bacteria in an anaerobic mixed culture. Environmental Microbiology, 2017, 19, 4784-4796.	1.8	23
101	Identification of 4-chlorobenzoyl-coenzyme A as intermediate in the dehalogenation catalysed by 4-chlorobenzoate dehalogenase fromPseudomonassp. CBS3. FEBS Letters, 1991, 290, 224-226.	1.3	22
102	Design and Application of an Internal Amplification Control to Improve Dehalococcoides mccartyi 16S rRNA Gene Enumeration by qPCR. Environmental Science & Technology, 2013, 47, 11131-11138.	4.6	22
103	Refined experimental annotation reveals conserved corrinoid autotrophy in chloroform-respiring <i>Dehalobacter</i> isolates. ISME Journal, 2017, 11, 626-640.	4.4	21
104	Proteogenomics Reveals Novel Reductive Dehalogenases and Methyltransferases Expressed during Anaerobic Dichloromethane Metabolism. Applied and Environmental Microbiology, 2019, 85, .	1.4	21
105	Mineralization versus fermentation: evidence for two distinct anaerobic bacterial degradation pathways for dichloromethane. ISME Journal, 2020, 14, 959-970.	4.4	21
106	<i>Pseudomonas</i> sp. Strain 273 Degrades Fluorinated Alkanes. Environmental Science & Technology, 2020, 54, 14994-15003.	4.6	21
107	Activity of Desulfitobacterium sp. Strain Viet1 Demonstrates Bioavailability of 2,4-Dichlorophenol Previously Sequestered by the Aquatic Plant Lemna minor. Environmental Science & Technology, 2006, 40, 529-535.	4.6	20
108	Natural Attenuation in Streambed Sediment Receiving Chlorinated Solvents from Underlying Fracture Networks. Environmental Science & Technology, 2017, 51, 4821-4830.	4.6	20

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109	Kinetics of the Microbial Reductive Dechlorination of Pentachloroaniline. Environmental Science & Technology, 2006, 40, 4467-4472.	4.6	19
110	Comparative <i>c</i>-type cytochrome expression analysis in <i>Shewanella oneidensis</i> strain MR-1 and <i>Anaeromyxobacter dehalogenans</i> strain 2CP-C grown with soluble and insoluble oxidized metal electron acceptors. Biochemical Society Transactions, 2012, 40, 1204-1210.	1.6	19
111	Complete Genome Sequence of <i>Dehalobacterium formicoaceticum</i> Strain DMC, a Strictly Anaerobic Dichloromethane-Degrading Bacterium. Genome Announcements, 2017, 5, .	0.8	19
112	Unique Ecophysiology among U(VI)-Reducing Bacteria as Revealed by Evaluation of Oxygen Metabolism in <i>Anaeromyxobacter dehalogenans</i> Strain 2CP-C. Applied and Environmental Microbiology, 2010, 76, 176-183.	1.4	18
113	Electron donor availability for microbial reductive processes following thermal treatment. Water Research, 2011, 45, 6625-6636.	5.3	18
114	Spatial and temporal dynamics of organohalide-respiring bacteria in a heterogeneous PCEâ€"DNAPL source zone. Journal of Contaminant Hydrology, 2015, 182, 78-90.	1.6	18
115	Sister Dehalobacter Genomes Reveal Specialization in Organohalide Respiration and Recent Strain Differentiation Likely Driven by Chlorinated Substrates. Frontiers in Microbiology, 2016, 7, 100.	1.5	18
116	Comparing DNA, RNA and protein levels for measuring microbial dynamics in soil microcosms amended with nitrogen fertilizer. Scientific Reports, 2019, 9, 17630.	1.6	18
117	Fate of TCE in Heated Fort Lewis Soil. Environmental Science & Technology, 2009, 43, 909-914.	4.6	17
118	Distribution of Organohalide-Respiring Bacteria between Solid and Aqueous Phases. Environmental Science & Technology, 2014, 48, 10878-10887.	4.6	17
119	Impact of Fixed Nitrogen Availability on <i>Dehalococcoides mccartyi</i> Reductive Dechlorination Activity. Environmental Science & Technology, 2019, 53, 14548-14558.	4.6	17
120	Metagenome-Guided Proteomic Quantification of Reductive Dehalogenases in the <i>Dehalococcoides mccartyi</i>-Containing Consortium SDC-9. Journal of Proteome Research, 2020, 19, 1812-1823.	1.8	17
121	Impacts of low-temperature thermal treatment on microbial detoxification of tetrachloroethene under continuous flow conditions. Water Research, 2018, 145, 21-29.	5.3	16
122	Metagenomes from Coastal Marine Sediments Give Insights into the Ecological Role and Cellular Features of <i>Loki</i> - and <i>Thorarchaeota</i>. MBio, 2019, 10, .	1.8	16
123	Nitrous Oxide Is a Potent Inhibitor of Bacterial Reductive Dechlorination. Environmental Science & Technology, 2019, 53, 692-701.	4.6	16
124	Analysis of Trace Hydrogen Metabolism. Methods in Enzymology, 2005, 397, 222-237.	0.4	14
125	Microbially enhanced dissolution and reductive dechlorination of PCE by a mixed culture: Model validation and sensitivity analysis. Journal of Contaminant Hydrology, 2013, 151, 117-130.	1.6	14
126	Cometabolic Vinyl Chloride Degradation at Acidic pH Catalyzed by Acidophilic Methanotrophs Isolated from Alpine Peat Bogs. Environmental Science & Technology, 2021, 55, 5959-5969.	4.6	14

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127	Dehalogenation of Chlorinated Ethenes to Ethene by a Novel Isolate, â€œ <i>Candidatus</i> Dehalogenimonas etheniformansâ€. Applied and Environmental Microbiology, 2022, 88, .	1.4	14
128	Draft Genome Sequence of a Strictly Anaerobic Dichloromethane-Degrading Bacterium. Genome Announcements, 2016, 4, .	0.8	13
129	Foodâ€"Energyâ€"Water Crises in the United States and China: Commonalities and Asynchronous Experiences Support Integration of Global Efforts. Environmental Science & Technology, 2021, 55, 1446-1455.	4.6	13
130	Anaerobic Microbial Metabolism of Dichloroacetate. MBio, 2021, 12, .	1.8	13
131	<i>Geobacter</i> sp. Strain IAE Dihaloeliminates 1,1,2-Trichloroethane and 1,2-Dichloroethane. Environmental Science & Technology, 2022, 56, 3430-3440.	4.6	13
132	Impact of microbial iron oxide reduction on the transport of diffusible tracers and non-diffusible nanoparticles in soils. Chemosphere, 2019, 220, 391-402.	4.2	11
133	Biotic and Abiotic Dehalogenation of 1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113): Implications for Bacterial Detoxification of Chlorinated Ethenes. Environmental Science & Technology, 2019, 53, 11941-11948.	4.6	10
134	<i>Pseudomonas</i> sp. Strain 273 Incorporates Organofluorine into the Lipid Bilayer during Growth with Fluorinated Alkanes. Environmental Science & Technology, 2022, 56, 8155-8166.	4.6	10
135	Release of Electron Donors during Thermal Treatment of Soils. Environmental Science & Technology, 2018, 52, 3642-3651.	4.6	9
136	One-time nitrogen fertilization shifts switchgrass soil microbiomes within a context of larger spatial and temporal variation. PLoS ONE, 2019, 14, e0211310.	1.1	9
137	Degradation of Adsorbed Bisphenol A by Soluble Mn(III). Environmental Science & Technology, 2021, 55, 13014-13023.	4.6	9
138	Liquidâ^'Liquid Mass Transfer of Partitioning Electron Donors in Chlorinated Solvent Source Zones. Environmental Science & Technology, 2011, 45, 1547-1554.	4.6	8
139	Simplified extraction of bisphenols from bacterial culture suspensions and solid matrices. Journal of Microbiological Methods, 2016, 126, 35-37.	0.7	8
140	Targeted detection of Dehalococcoides mccartyi microbial protein biomarkers as indicators of reductive dechlorination activity in contaminated groundwater. Scientific Reports, 2019, 9, 10604.	1.6	8
141	Metagenomic Characterization of Soil Microbial Communities in the Luquillo Experimental Forest (Puerto Rico) and Implications for Nitrogen Cycling. Applied and Environmental Microbiology, 2021, 87, e0054621.	1.4	8
142	Genome Sequence of â€œ <i>Candidatus</i> Dehalogenimonas etheniformansâ€•Strain GP, a Vinyl Chloride-Respiring Anaerobe. Microbiology Resource Announcements, 2020, 9, .	0.3	8
143	4-Methylphenol produced in freshwater sediment microcosms is not a bisphenol A metabolite. Chemosphere, 2014, 117, 521-526.	4.2	7
144	Identification and widespread environmental distribution of a gene cassette implicated in anaerobic dichloromethane degradation. Global Change Biology, 2022, 28, 2396-2412.	4.2	7

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145	Closing transdisciplinary collaboration gaps of food-energy-water nexus research. Environmental Science and Policy, 2021, 126, 164-167.	2.4	6
146	Ultrastructure of Organohalide-Respiring <i>Dehalococcoidia</i> Revealed by Cryo-Electron Tomography. Applied and Environmental Microbiology, 2022, 88, AEM0190621.	1.4	6
147	Complete Genome Sequence of Sulfurospirillum Strain ACS TCE , a Tetrachloroethene-Respiring Anaerobe Isolated from Contaminated Soil. Microbiology Resource Announcements, 2020, 9, .	0.3	5
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