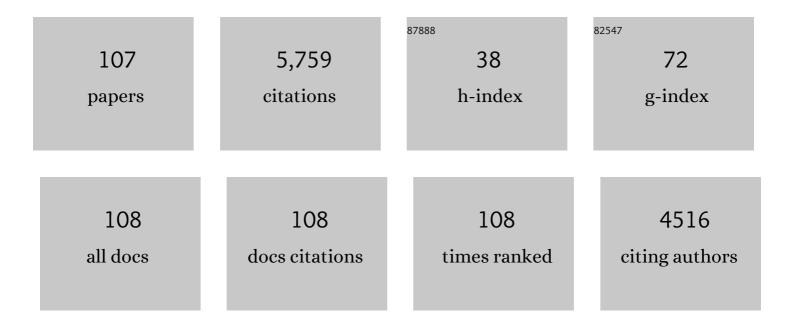
Jianzhong He

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Detoxification of vinyl chloride to ethene coupled to growth of an anaerobic bacterium. Nature, 2003, 424, 62-65.	27.8	461
2	Effect of antibiotics in the environment on microbial populations. Applied Microbiology and Biotechnology, 2010, 87, 925-941.	3.6	358
3	Phthalates biodegradation in the environment. Applied Microbiology and Biotechnology, 2008, 80, 183-98.	3.6	336
4	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.	3.1	324
5	Microbial Reductive Debromination of Polybrominated Diphenyl Ethers (PBDEs). Environmental Science & Technology, 2006, 40, 4429-4434.	10.0	308
6	lsolation and characterization of Dehalococcoides sp. strain FL2, a trichloroethene (TCE)- and 1,2-dichloroethene-respiring anaerobe. Environmental Microbiology, 2005, 7, 1442-1450.	3.8	237
7	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.	10.0	190
8	Influence of Vitamin B12 and Cocultures on the Growth of Dehalococcoides Isolates in Defined Medium. Applied and Environmental Microbiology, 2007, 73, 2847-2853.	3.1	182
9	Genomic characterization of three unique <i>Dehalococcoides</i> that respire on persistent polychlorinated biphenyls. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12103-12108.	7.1	168
10	Complete nitrogen removal via simultaneous nitrification and denitrification by a novel phosphate accumulating Thauera sp. strain SND5. Water Research, 2020, 185, 116300.	11.3	150
11	Discrimination of Multiple Dehalococcoides Strains in a Trichloroethene Enrichment by Quantification of Their Reductive Dehalogenase Genes. Applied and Environmental Microbiology, 2006, 72, 5877-5883.	3.1	132
12	Reductive Debromination of Polybrominated Diphenyl Ethers by Anaerobic Bacteria from Soils and Sediments. Applied and Environmental Microbiology, 2010, 76, 794-802.	3.1	123
13	Isolation and Characterization of " <i>Dehalococcoides</i> ―sp. Strain MB, Which Dechlorinates Tetrachloroethene to <i>trans</i> -1,2-Dichloroethene. Applied and Environmental Microbiology, 2009, 75, 5910-5918.	3.1	116
14	Reductive Dehalogenase Gene Expression as a Biomarker for Physiological Activity of Dehalococcoides spp. Applied and Environmental Microbiology, 2006, 72, 6161-6168.	3.1	100
15	Identification and transcriptional analysis of <i>trans</i> -DCE-producing reductive dehalogenases in <i>Dehalococcoides</i> species. ISME Journal, 2010, 4, 1020-1030.	9.8	76
16	Characterization of a thermostable xylanase from a newly isolated Kluyvera species and its application for biobutanol production. Bioresource Technology, 2013, 135, 309-315.	9.6	72
17	Complete Debromination of Tetra- and Penta-Brominated Diphenyl Ethers by a Coculture Consisting of <i>Dehalococcoides</i> and <i>Desulfovibrio</i> Species. Environmental Science & Technology, 2011, 45, 8475-8482.	10.0	70
18	Microbial synergistic interactions for reductive dechlorination of polychlorinated biphenyls. Science of the Total Environment, 2019, 666, 368-376.	8.0	66

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19	A <scp><i>D</i></scp> <i>esulfitobacterium</i> sp. strain <scp>PR</scp> reductively dechlorinates both 1,1,1â€trichloroethane and chloroform. Environmental Microbiology, 2014, 16, 3387-3397.	3.8	58
20	Simultaneous Fermentation of Glucose and Xylose to Butanol by Clostridium sp. Strain BOH3. Applied and Environmental Microbiology, 2014, 80, 4771-4778.	3.1	58
21	Phylogenetically Distinct Bacteria Involve Extensive Dechlorination of Aroclor 1260 in Sediment-Free Cultures. PLoS ONE, 2013, 8, e59178.	2.5	57
22	Characterization of anaerobic consortia coupled lignin depolymerization with biomethane generation. Bioresource Technology, 2013, 139, 5-12.	9.6	56
23	Reducing cofactors contribute to the increase of butanol production by a wild-type Clostridium sp. strain BOH3. Bioresource Technology, 2014, 155, 220-228.	9.6	55
24	Insights into the Occurrence, Fate, and Impacts of Halogenated Flame Retardants in Municipal Wastewater Treatment Plants. Environmental Science & Technology, 2021, 55, 4205-4226.	10.0	55
25	Comparative genomics of two newly isolated <i>Dehalococcoides</i> strains and an enrichment using a genus microarray. ISME Journal, 2011, 5, 1014-1024.	9.8	54
26	Isolation of Acetobacterium sp. Strain AG, Which Reductively Debrominates Octa- and Pentabrominated Diphenyl Ether Technical Mixtures. Applied and Environmental Microbiology, 2013, 79, 1110-1117.	3.1	51
27	A mesophilic Clostridium species that produces butanol from monosaccharides and hydrogen from polysaccharides. Bioresource Technology, 2011, 102, 9558-9563.	9.6	50
28	Fixed nitrogen removal mechanisms associated with sulfur cycling in tropical wetlands. Water Research, 2021, 189, 116619.	11.3	50
29	Enhanced direct fermentation from food waste to butanol and hydrogen by an amylolytic Clostridium. Renewable Energy, 2020, 153, 522-529.	8.9	47
30	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.	3.1	45
31	Proliferation of antibiotic resistance genes in microbial consortia of sequencing batch reactors (SBRs) upon exposure to trace erythromycin or erythromycin-H2O. Water Research, 2011, 45, 3098-3106.	11.3	44
32	Identification of antibiotic resistant bacteria community and a GeoChip based study of resistome in urban watersheds. Water Research, 2016, 106, 330-338.	11.3	44
33	Dechlorination of Commercial PCBs and Other Multiple Halogenated Compounds by a Sediment-Free Culture ContainingDehalococcoidesandDehalobacter. Environmental Science & Technology, 2013, 47, 130904143020001.	10.0	42
34	One-pot fermentation of agricultural residues to produce butanol and hydrogen by Clostridium strain BOH3. Renewable Energy, 2016, 85, 1127-1134.	8.9	42
35	Isolation of two new <i><scp>D</scp>ehalococcoides mccartyi</i> strains with dissimilar dechlorination functions and their characterization by comparative genomics via microarray analysis. Environmental Microbiology, 2013, 15, 2293-2305.	3.8	41
36	Unique genetic cassettes in a <i>Thermoanaerobacterium</i> contribute to simultaneous conversion of cellulose and monosugars into butanol. Science Advances, 2018, 4, e1701475.	10.3	41

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37	Potential Role of Methanogens in Microbial Reductive Dechlorination of Organic Chlorinated Pollutants <i>In Situ</i> . Environmental Science & Technology, 2021, 55, 5917-5928.	10.0	41
38	A <i>Dehalococcoides</i> -containing co-culture that dechlorinates tetrachloroethene to <i>trans</i> -1,2-dichloroethene. ISME Journal, 2010, 4, 88-97.	9.8	40
39	Strategy for the Rapid Dechlorination of Polychlorinated Biphenyls (PCBs) by <i>Dehalococcoides mccartyi</i> Strains. Environmental Science & amp; Technology, 2018, 52, 13854-13862.	10.0	39
40	Characterization of a butanol–acetone-producing Clostridium strain and identification of its solventogenic genes. Bioresource Technology, 2013, 135, 372-378.	9.6	38
41	Direct fermentation of xylan by Clostridium strain BOH3 for the production of butanol and hydrogen using optimized culture medium. Bioresource Technology, 2014, 154, 38-43.	9.6	37
42	Strategies for production of butanol and butyl-butyrate through lipase-catalyzed esterification. Bioresource Technology, 2016, 202, 214-219.	9.6	37
43	Reductive Debromination of Polybrominated Diphenyl Ethers - Microbes, Processes and Dehalogenases. Frontiers in Microbiology, 2018, 9, 1292.	3.5	37
44	Isolation and characterization of a novel Dehalobacter species strain TCP1 that reductively dechlorinates 2,4,6-trichlorophenol. Biodegradation, 2014, 25, 313-323.	3.0	35
45	Acclimatization of a mixed-animal manure inoculum to the anaerobic digestion of Axonopus compressus reveals the putative importance of Mesotoga infera and Methanosaeta concilii as elucidated by DGGE and Illumina MiSeq. Bioresource Technology, 2017, 245, 1148-1154.	9.6	34
46	Characterization and genome analysis of a butanol–isopropanol-producing Clostridium beijerinckii strain BGS1. Biotechnology for Biofuels, 2018, 11, 280.	6.2	33
47	Genomic Characterization of <i>Dehalococcoides mccartyi</i> Strain JNA That Reductively Dechlorinates Tetrachloroethene and Polychlorinated Biphenyls. Environmental Science & Technology, 2015, 49, 14319-14325.	10.0	32
48	Acceleration of polychlorinated biphenyls remediation in soil via sewage sludge amendment. Journal of Hazardous Materials, 2021, 420, 126630.	12.4	32
49	Abundance of organohalide respiring bacteria and their role in dehalogenating antimicrobials in wastewater treatment plants. Water Research, 2020, 181, 115893.	11.3	31
50	Evidence for Nitrogen Fixation by " <i>Dehalococcoides ethenogenes</i> ―Strain 195. Applied and Environmental Microbiology, 2009, 75, 7551-7555.	3.1	30
51	Oligopeptides functionalized surface plasmon resonance biosensors for detecting thiacloprid and imidacloprid. Biosensors and Bioelectronics, 2012, 35, 271-276.	10.1	30
52	Offshore Marine Sediment Microbiota Respire Structurally Distinct Organohalide Pollutants. Environmental Science & Technology, 2022, 56, 3065-3075.	10.0	30
53	Molecular techniques in the biotechnological fight against halogenated compounds in anoxic environments. Microbial Biotechnology, 2012, 5, 347-367.	4.2	29
54	Enhanced direct fermentation of cassava to butanol by Clostridium species strain BOH3 in cofactor-mediated medium. Biotechnology for Biofuels, 2015, 8, 166.	6.2	29

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55	Pentachlorophenol dechlorination by an acidogenic sludge. Water Research, 2008, 42, 3789-3798.	11.3	28
56	Loss of the <i>ssrA</i> genome island led to partial debromination in the PBDE respiring <i>Dehalococcoides mccartyi</i> strain GY50. Environmental Microbiology, 2017, 19, 2906-2915.	3.8	27
57	Efficient and Complete Detoxification of Polybrominated Diphenyl Ethers in Sediments Achieved by Bioaugmentation with <i>Dehalococcoides</i> and Microbial Ecological Insights. Environmental Science & Technology, 2022, 56, 8008-8019.	10.0	27
58	Analysis of enhanced nitrogen removal mechanisms in a validation wastewater treatment plant containing anammox bacteria. Applied Microbiology and Biotechnology, 2019, 103, 1255-1265.	3.6	25
59	Development and characteristics of rapidly formed hydrogen-producing granules in an acidic anaerobic sequencing batch reactor (AnSBR). Biochemical Engineering Journal, 2010, 49, 119-125.	3.6	24
60	Dehalogenation of Polybrominated Diphenyl Ethers and Polychlorinated Biphenyls Catalyzed by a Reductive Dehalogenase in <i>Dehalococcoides mccartyi</i> Strain MB. Environmental Science & Technology, 2022, 56, 4039-4049.	10.0	24
61	A Highly Efficient NADH-dependent Butanol Dehydrogenase from High-butanol-producing Clostridium sp. BOH3. Bioenergy Research, 2013, 6, 240-251.	3.9	23
62	Instability of dilative sand. Geotechnical Research, 2015, 2, 35-48.	1.4	23
63	<i>Dehalococcoides mccartyi</i> Strain GEO12 Has a Natural Tolerance to Chloroform Inhibition. Environmental Science & amp; Technology, 2020, 54, 8750-8759.	10.0	23
64	Acidogenic sequencing batch reactor start-up procedures for induction of 2,4,6-trichlorophenol dechlorination. Water Research, 2008, 42, 1675-1683.	11.3	21
65	Influence of trace erythromycin and erythromycin-H2O on carbon and nutrients removal and on resistance selection in sequencing batch reactors (SBRs). Applied Microbiology and Biotechnology, 2009, 85, 185-195.	3.6	21
66	Production, Purification, and Characterization of a Xylooligosaccharides-forming Xylanase from High-butanol-producing Strain Clostridium sp. BOH3. Bioenergy Research, 2013, 6, 448-457.	3.9	21
67	Anaerobic biodegradation of phenanthrene by a newly isolated nitrateâ€dependent <i>Achromobacter denitrificans</i> strain <scp>PheN1</scp> and exploration of the biotransformation processes by metabolite and genome analyses. Environmental Microbiology, 2021, 23, 908-923.	3.8	21
68	Optimization of bioaugmentation of the anaerobic digestion of Axonopus compressus cowgrass for the production of biomethane. Journal of Cleaner Production, 2020, 258, 120932.	9.3	20
69	Draft Genome Sequence of Butanol-Acetone-Producing Clostridium beijerinckii Strain G117. Journal of Bacteriology, 2012, 194, 5470-5471.	2.2	19
70	Identification of Reductive Dehalogenases That Mediate Complete Debromination of Penta- and Tetrabrominated Diphenyl Ethers in <i>Dehalococcoides</i> spp Applied and Environmental Microbiology, 2021, 87, e0060221.	3.1	19
71	Debromination of TetraBromoBisphenol-A (TBBPA) depicting the metabolic versatility of Dehalococcoides. Journal of Hazardous Materials, 2021, 419, 126408.	12.4	19
72	Detoxification of 1,1,2-Trichloroethane to Ethene by Desulfitobacterium and Identification of Its Functional Reductase Gene. PLoS ONE, 2015, 10, e0119507.	2.5	19

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73	A comparative genomics and reductive dehalogenase gene transcription study of two chloroethene-respiring bacteria, Dehalococcoides mccartyi strains MB and 11a. Scientific Reports, 2015, 5, 15204.	3.3	18
74	Simultaneous saccharification and fermentation of hemicellulose to butanol by a non-sporulating Clostridium species. Bioresource Technology, 2016, 219, 430-438.	9.6	18
75	Genomic characterization of <i>Dehalococcoides mccartyi</i> strain 11a5 reveals a circular extrachromosomal genetic element and a new tetrachloroethene reductive dehalogenase gene. FEMS Microbiology Ecology, 2017, 93, fiw235.	2.7	18
76	Direct conversion of xylan to butanol by a wildâ€ŧype <i>Clostridium</i> species strain G117. Biotechnology and Bioengineering, 2016, 113, 1702-1710.	3.3	18
77	Anaerobic phenanthrene biodegradation with four kinds of electron acceptors enriched from the same mixed inoculum and exploration of metabolic pathways. Frontiers of Environmental Science and Engineering, 2019, 13, 1.	6.0	18
78	Partnering of anammox and denitrifying bacteria benefits anammox's recovery from starvation and complete nitrogen removal. Science of the Total Environment, 2022, 815, 152696.	8.0	18
79	Production of 2,3-Butanediol from Sucrose by a Klebsiella Species. Bioenergy Research, 2016, 9, 15-22.	3.9	17
80	Characterization of a xylanase-producing Cellvibrio mixtus strain J3-8 and its genome analysis. Scientific Reports, 2015, 5, 10521.	3.3	16
81	Enhanced biobutanol production from starch waste via orange peel doping. Renewable Energy, 2022, 193, 576-583.	8.9	16
82	Production of isopropyl and butyl esters by Clostridium mono-culture and co-culture. Journal of Industrial Microbiology and Biotechnology, 2020, 47, 543-550.	3.0	15
83	Development of a Fluorescence-Activated Cell Sorting Method Coupled with Whole Genome Amplification To Analyze Minority and Trace <i>Dehalococcoides</i> Genomes in Microbial Communities. Environmental Science & Technology, 2015, 49, 1585-1593.	10.0	14
84	Heterologous expression, characterization and application of a new β-xylosidase identified in solventogenic Clostridium sp. strain BOH3. Process Biochemistry, 2018, 67, 99-104.	3.7	14
85	Aerobic acetone-butanol-isopropanol (ABI) fermentation through a co-culture of Clostridium beijerinckii G117 and recombinant Bacillus subtilis 1A1. Metabolic Engineering Communications, 2020, 11, e00137.	3.6	14
86	16S rRNA gene-based primer pair showed high specificity and quantification accuracy in detecting freshwater Brocadiales anammox bacteria. FEMS Microbiology Ecology, 2020, 96, .	2.7	14
87	Microbial reductive dehalogenation of trihalomethanes by a Dehalobacter-containing co-culture. Applied Microbiology and Biotechnology, 2017, 101, 5481-5492.	3.6	12
88	Biological and fermentative production of hydrogen. , 2016, , 303-333.		11
89	Reductive Dechlorination of High Concentrations of Chloroethenes by a Dehalococcoides mccartyi Strain 11 G. FEMS Microbiology Ecology, 2018, 95, .	2.7	11
90	Growth of Dehalococcoides mccartyi species in an autotrophic consortium producing limited acetate. Biodegradation, 2018, 29, 487-498.	3.0	11

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91	Diversity of organohalide respiring bacteria and reductive dehalogenases that detoxify polybrominated diphenyl ethers in E-waste recycling sites. ISME Journal, 2022, 16, 2123-2131.	9.8	11
92	Two-step denaturing gradient gel electrophoresis (2S-DGGE), a gel-based strategy to capture full-length 16S rRNA gene sequences. Applied Microbiology and Biotechnology, 2012, 95, 1305-1312.	3.6	10
93	Production, Purification, and Characterization of α-Amylase from Solventogenic Clostridium sp. BOH3. Bioenergy Research, 2014, 7, 132-141.	3.9	10
94	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
95	Evaluation of Biodegradation Potential of Carbon Tetrachloride and Chlorophenols under Acidogenic Condition. Journal of Environmental Engineering, ASCE, 2008, 134, 177-183.	1.4	8
96	Separation of fluorescenceâ€labelled terminal restriction fragment DNA on a twoâ€dimensional gel (Tâ€RFsâ€2D) – an efficient approach for microbial consortium characterization. Environmental Microbiology, 2011, 13, 2565-2575.	3.8	8
97	Comparison of microbial communities in sequencing batch reactors (SBRs) exposed to trace erythromycin and erythromycin-H2O. Applied Microbiology and Biotechnology, 2014, 98, 2667-2673.	3.6	8
98	Draft Genome Sequence of Polychlorinated Biphenyl-Dechlorinating Dehalococcoides mccartyi Strain SG1, Which Carries a Circular Putative Plasmid. Genome Announcements, 2014, 2, .	0.8	6
99	Purification and Characterization of a GH11 Xylanase from Biobutanol-Producing Clostridium beijerinckii G117. Applied Biochemistry and Biotechnology, 2015, 175, 2832-2844.	2.9	6
100	Clostridium species strain BOH3 tolerates and transforms inhibitors from horticulture waste hydrolysates. Applied Microbiology and Biotechnology, 2017, 101, 6289-6297.	3.6	6
101	The Microbiology of Anaerobic PCB Dechlorination. , 2016, , 541-562.		5
102	Editorial: Organohalide Respiration: New Findings in Metabolic Mechanisms and Bioremediation Applications. Frontiers in Microbiology, 2019, 10, 526.	3.5	5
103	Newly designed high-coverage degenerate primers for nitrogen removal mechanism analysis in a partial nitrification-anammox (PN/A) process. FEMS Microbiology Ecology, 2020, 96, .	2.7	5
104	Quantitative proteome profiles help reveal efficient xylose utilization mechanisms in solventogenic <i>Clostridium</i> sp. strain BOH3. Biotechnology and Bioengineering, 2017, 114, 1959-1969.	3.3	5
105	DNA microarrays on ultraviolet-modified surfaces for speciation of bacteria. Analytical Biochemistry, 2014, 447, 156-161.	2.4	3
106	Differentiating Closely Affiliated <i>Dehalococcoides</i> Lineages by a Novel Genetic Marker Identified via Computational Pangenome Analysis. Applied and Environmental Microbiology, 2022, 88, AEM0218121.	3.1	3
107	Determination of Total Nitrogen in Environmental Samples: Validation by Comparison of Techniques and Intralaboratory Studies. Analytical Letters, 2009, 42, 948-957.	1.8	0