

# Siyan Zhao

## 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.

67  
papers

2,799  
citations

25  
h-index

52  
g-index

73  
ext. papers

3,410  
ext. citations

8.1  
avg, IF

5.58  
L-index

#	Paper	IF	Citations
67	Detoxification of vinyl chloride to ethene coupled to growth of an anaerobic bacterium. <i>Nature</i> , <b>2003</b> , 424, 62-5	50.4	409
66	Complete detoxification of vinyl chloride by an anaerobic enrichment culture and identification of the reductively dechlorinating population as a Dehalococcoides species. <i>Applied and Environmental Microbiology</i> , <b>2003</b> , 69, 996-1003	4.8	284
65	Microbial reductive debromination of polybrominated diphenyl ethers (PBDEs). <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 4429-34	10.3	279
64	Isolation and characterization of Dehalococcoides sp. strain FL2, a trichloroethene (TCE)- and 1,2-dichloroethene-respiring anaerobe. <i>Environmental Microbiology</i> , <b>2005</b> , 7, 1442-50	5.2	214
63	Acetate versus hydrogen as direct electron donors to stimulate the microbial reductive dechlorination process at chloroethene-contaminated sites. <i>Environmental Science &amp; Technology</i> , <b>2002</b> , 36, 3945-52	10.3	163
62	Influence of vitamin B12 and cocultures on the growth of Dehalococcoides isolates in defined medium. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 2847-53	4.8	154
61	Reductive debromination of polybrominated diphenyl ethers by anaerobic bacteria from soils and sediments. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 794-802	4.8	112
60	Genomic characterization of three unique Dehalococcoides that respire on persistent polychlorinated biphenyls. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 12103-8	11.5	107
59	Isolation and characterization of "Dehalococcoides" sp. strain MB, which dechlorinates tetrachloroethene to trans-1,2-dichloroethene. <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 5910-8	4.8	87
58	Identification and transcriptional analysis of trans-DCE-producing reductive dehalogenases in Dehalococcoides species. <i>ISME Journal</i> , <b>2010</b> , 4, 1020-30	11.9	66
57	Simultaneous fermentation of glucose and xylose to butanol by Clostridium sp. strain BOH3. <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 4771-8	4.8	51
56	Comparative genomics of two newly isolated Dehalococcoides strains and an enrichment using a genus microarray. <i>ISME Journal</i> , <b>2011</b> , 5, 1014-24	11.9	49
55	A Desulfitobacterium sp. strain PR reductively dechlorinates both 1,1,1-trichloroethane and chloroform. <i>Environmental Microbiology</i> , <b>2014</b> , 16, 3387-97	5.2	46
54	Complete nitrogen removal via simultaneous nitrification and denitrification by a novel phosphate accumulating Thauera sp. strain SND5. <i>Water Research</i> , <b>2020</b> , 185, 116300	12.5	41
53	Reducing cofactors contribute to the increase of butanol production by a wild-type Clostridium sp. strain BOH3. <i>Bioresource Technology</i> , <b>2014</b> , 155, 220-8	11	40
52	Isolation of Acetobacterium sp. strain AG, which reductively debrominates octa- and pentabrominated diphenyl ether technical mixtures. <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 1110-7	4.8	38
51	Identification of antibiotic resistant bacteria community and a GeoChip based study of resistome in urban watersheds. <i>Water Research</i> , <b>2016</b> , 106, 330-338	12.5	35

50	Dechlorination of commercial PCBs and other multiple halogenated compounds by a sediment-free culture containing Dehalococcoides and Dehalobacter. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 10526-34	10.3	34
49	Microbial synergistic interactions for reductive dechlorination of polychlorinated biphenyls. <i>Science of the Total Environment</i> , <b>2019</b> , 666, 368-376	10.2	33
48	Isolation of two new Dehalococcoides mccartyi strains with dissimilar dechlorination functions and their characterization by comparative genomics via microarray analysis. <i>Environmental Microbiology</i> , <b>2013</b> , 15, 2293-305	5.2	32
47	Unique genetic cassettes in a contribute to simultaneous conversion of cellulose and monosugars into butanol. <i>Science Advances</i> , <b>2018</b> , 4, e1701475	14.3	28
46	Strategies for production of butanol and butyl-butyrates through lipase-catalyzed esterification. <i>Bioresource Technology</i> , <b>2016</b> , 202, 214-9	11	27
45	Characterization and genome analysis of a butanol-isopropanol-producing strain BGS1. <i>Biotechnology for Biofuels</i> , <b>2018</b> , 11, 280	7.8	26
44	Reductive Debromination of Polybrominated Diphenyl Ethers - Microbes, Processes and Dehalogenases. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 1292	5.7	25
43	Oligopeptides functionalized surface plasmon resonance biosensors for detecting thiacloprid and imidacloprid. <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 35, 271-276	11.8	25
42	Enhanced direct fermentation of cassava to butanol by Clostridium species strain BOH3 in cofactor-mediated medium. <i>Biotechnology for Biofuels</i> , <b>2015</b> , 8, 166	7.8	24
41	Fixed nitrogen removal mechanisms associated with sulfur cycling in tropical wetlands. <i>Water Research</i> , <b>2021</b> , 189, 116619	12.5	23
40	Genomic Characterization of Dehalococcoides mccartyi Strain JNA That Reductively Dechlorinates Tetrachloroethene and Polychlorinated Biphenyls. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 14319-25	10.3	20
39	Analysis of enhanced nitrogen removal mechanisms in a validation wastewater treatment plant containing anammox bacteria. <i>Applied Microbiology and Biotechnology</i> , <b>2019</b> , 103, 1255-1265	5.7	19
38	A Highly Efficient NADH-dependent Butanol Dehydrogenase from High-butanol-producing Clostridium sp. BOH3. <i>Bioenergy Research</i> , <b>2013</b> , 6, 240-251	3.1	18
37	Detoxification of 1,1,2-trichloroethane to ethene by desulfitobacterium and identification of its functional reductase gene. <i>PLoS ONE</i> , <b>2015</b> , 10, e0119507	3.7	18
36	Strategy for the Rapid Dechlorination of Polychlorinated Biphenyls (PCBs) by Dehalococcoides mccartyi Strains. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 13854-13862	10.3	17
35	Loss of the ssrA genome island led to partial debromination in the PBDE respiring Dehalococcoides mccartyi strain GY50. <i>Environmental Microbiology</i> , <b>2017</b> , 19, 2906-2915	5.2	16
34	Simultaneous saccharification and fermentation of hemicellulose to butanol by a non-sporulating Clostridium species. <i>Bioresource Technology</i> , <b>2016</b> , 219, 430-438	11	16
33	Production, Purification, and Characterization of a Xylooligosaccharides-forming Xylanase from High-butanol-producing Strain Clostridium sp. BOH3. <i>Bioenergy Research</i> , <b>2013</b> , 6, 448-457	3.1	15

32	Production of 2,3-Butanediol from Sucrose by a Klebsiella Species. <i>Bioenergy Research</i> , <b>2016</b> , 9, 15-22	3.1	13
31	Direct conversion of xylan to butanol by a wild-type Clostridium species strain G117. <i>Biotechnology and Bioengineering</i> , <b>2016</b> , 113, 1702-10	4.9	13
30	Insights into the Occurrence, Fate, and Impacts of Halogenated Flame Retardants in Municipal Wastewater Treatment Plants. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 4205-4226	10.3	13
29	Abundance of organohalide respiring bacteria and their role in dehalogenating antimicrobials in wastewater treatment plants. <i>Water Research</i> , <b>2020</b> , 181, 115893	12.5	12
28	Genomic characterization of Dehalococcoides mccartyi strain 11a5 reveals a circular extrachromosomal genetic element and a new tetrachloroethene reductive dehalogenase gene. <i>FEMS Microbiology Ecology</i> , <b>2017</b> , 93,	4.3	12
27	A comparative genomics and reductive dehalogenase gene transcription study of two chloroethene-respiring bacteria, Dehalococcoides mccartyi strains MB and 11a. <i>Scientific Reports</i> , <b>2015</b> , 5, 15204	4.9	11
26	Anaerobic phenanthrene biodegradation with four kinds of electron acceptors enriched from the same mixed inoculum and exploration of metabolic pathways. <i>Frontiers of Environmental Science and Engineering</i> , <b>2019</b> , 13, 1	5.8	10
25	Aerobic acetone-butanol-isopropanol (ABI) fermentation through a co-culture of G117 and recombinant 1A1. <i>Metabolic Engineering Communications</i> , <b>2020</b> , 11, e00137	6.5	9
24	Production, Purification, and Characterization of $\alpha$ -Amylase from Solventogenic Clostridium sp. BOH3. <i>Bioenergy Research</i> , <b>2014</b> , 7, 132-141	3.1	8
23	Production of isopropyl and butyl esters by Clostridium mono-culture and co-culture. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2020</b> , 47, 543-550	4.2	7
22	16S rRNA gene-based primer pair showed high specificity and quantification accuracy in detecting freshwater Brocadiales anammox bacteria. <i>FEMS Microbiology Ecology</i> , <b>2020</b> , 96,	4.3	7
21	Degradation of ofloxacin by a manganese-oxidizing bacterium Pseudomonas sp. F2 and its biogenic manganese oxides. <i>Bioresource Technology</i> , <b>2021</b> , 328, 124826	11	7
20	Microbial reductive dehalogenation of trihalomethanes by a Dehalobacter-containing co-culture. <i>Applied Microbiology and Biotechnology</i> , <b>2017</b> , 101, 5481-5492	5.7	6
19	Potential Role of Methanogens in Microbial Reductive Dechlorination of Organic Chlorinated Pollutants. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 5917-5928	10.3	6
18	Reductive dechlorination of high concentrations of chloroethenes by a Dehalococcoides mccartyi strain 11G. <i>FEMS Microbiology Ecology</i> , <b>2019</b> , 95,	4.3	6
17	Acceleration of polychlorinated biphenyls remediation in soil via sewage sludge amendment. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 420, 126630	12.8	6
16	Isolation, characterization and bioaugmentation of an acidotolerant 1,2-dichloroethane respiring Desulfitobacterium species from a low pH aquifer. <i>FEMS Microbiology Ecology</i> , <b>2019</b> , 95,	4.3	5
15	Strain GEO12 Has a Natural Tolerance to Chloroform Inhibition. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 8750-8759	10.3	5

14	Clostridium species strain BOH3 tolerates and transforms inhibitors from horticulture waste hydrolysates. <i>Applied Microbiology and Biotechnology</i> , <b>2017</b> , 101, 6289-6297	5.7	5
13	Draft Genome Sequence of Polychlorinated Biphenyl-Dechlorinating Dehalococcoides mccartyi Strain SG1, Which Carries a Circular Putative Plasmid. <i>Genome Announcements</i> , <b>2014</b> , 2,		5
12	Anaerobic biodegradation of phenanthrene by a newly isolated nitrate-dependent Achromobacter denitrificans strain PheN1 and exploration of the biotransformation processes by metabolite and genome analyses. <i>Environmental Microbiology</i> , <b>2021</b> , 23, 908-923	5.2	5
11	Identification of Reductive Dehalogenases That Mediate Complete Debromination of Penta- and Tetrabrominated Diphenyl Ethers in spp. <i>Applied and Environmental Microbiology</i> , <b>2021</b> , 87, e0060221	4.8	5
10	Environmental occurrence and remediation of emerging organohalides: A review. <i>Environmental Pollution</i> , <b>2021</b> , 290, 118060	9.3	5
9	Quantitative proteome profiles help reveal efficient xylose utilization mechanisms in solventogenic Clostridium sp. strain BOH3. <i>Biotechnology and Bioengineering</i> , <b>2017</b> , 114, 1959-1969	4.9	5
8	Growth of Dehalococcoides mccartyi species in an autotrophic consortium producing limited acetate. <i>Biodegradation</i> , <b>2018</b> , 29, 487-498	4.1	4
7	Newly designed high-coverage degenerate primers for nitrogen removal mechanism analysis in a partial nitrification-anammox (PN/A) process. <i>FEMS Microbiology Ecology</i> , <b>2020</b> , 96,	4.3	4
6	DNA microarrays on ultraviolet-modified surfaces for speciation of bacteria. <i>Analytical Biochemistry</i> , <b>2014</b> , 447, 156-61	3.1	3
5	Debromination of TetraBromoBisphenol-A (TBBPA) depicting the metabolic versatility of Dehalococcoides. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 419, 126408	12.8	3
4	Exploration of the biotransformation of phenanthrene degradation coupled with methanogenesis by metabolites and enzyme analyses. <i>Environmental Pollution</i> , <b>2021</b> , 293, 118491	9.3	1
3	Partnering of anammox and denitrifying bacteria benefits anammox's recovery from starvation and complete nitrogen removal.. <i>Science of the Total Environment</i> , <b>2021</b> , 815, 152696	10.2	1
2	Microbial Debromination of Polybrominated Diphenyl Ethers by -Containing Enrichment Culture.. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 806795	5.7	0
1	Differentiating closely affiliated lineages by a novel genetic marker identified via computational pangenome analysis.. <i>Applied and Environmental Microbiology</i> , <b>2021</b> , AEM0218121	4.8	0