Qiang He

List of Publications by Year
in descending order

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100	4,838	76326	102487
papers	citations	40	66
		h-index	g-index

102	102	102	5281
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nationwide assessment of energy costs and policies to limit airborne infection risks in U.S. schools. Journal of Building Engineering, 2022, 45, 103533.	3.4	1
2	Identification of Propionate-Degrading Microbial Populations in Methanogenic Processes for Waste Treatment: Methanosaeta and Methanoculleus. Environmental Engineering Science, 2022, 39, 202-211.	1.6	6
3	Microbiome-Based Source Identification of Microbial Contamination in Nebulizers Used by Inpatients. Journal of Hospital Infection, 2022, , .	2.9	2
4	MCycDB: A curated database for comprehensively profiling methane cycling processes of environmental microbiomes. Molecular Ecology Resources, 2022, 22, 1803-1823.	4.8	16
5	Microbiome Profiles of Nebulizers in Hospital Use. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2022, , .	1.4	4
6	Understanding building-occupant-microbiome interactions toward healthy built environments: A review. Frontiers of Environmental Science and Engineering, 2021, 15, 65.	6.0	24
7	A single-step DNAzyme sensor for ultra-sensitive and rapid detection of Pb2+ ions. Electrochimica Acta, 2021, 368, 137551.	5.2	19
8	SCycDB: A curated functional gene database for metagenomic profiling of sulphur cycling pathways. Molecular Ecology Resources, 2021, 21, 924-940.	4.8	52
9	Integrated environment-occupant-pathogen information modeling to assess and communicate room-level outbreak risks of infectious diseases. Building and Environment, 2021, 187, 107394.	6.9	21
10	Cover Image, Volume 8, Issue 2. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1515.	6.5	0
11	Passive Immunization of Chickens with Anti-Enterobactin Egg Yolk Powder for Campylobacter Control. Vaccines, 2021, 9, 569.	4.4	7
12	Biodegradation of waste asphalt shingle by white rot fungi. Journal of Cleaner Production, 2021, 310, 127448.	9.3	6
13	Impact of building closures during the COVID-19 pandemic on Legionella infection risks. American Journal of Infection Control, 2021, 49, 1564-1566.	2.3	26
14	Toward broader applications of iron ore waste in pollution control: Adsorption of norfloxacin. Journal of Hazardous Materials, 2021, 418, 126273.	12.4	36
15	Airborne infection risks of SARS-CoV-2 in U.S. schools and impacts of different intervention strategies. Sustainable Cities and Society, 2021, 74, 103188.	10.4	23
16	Experimental and Thermodynamic Study of Alkali-Activated Waste Glass and Calcium Sulfoaluminate Cement Blends: Shrinkage, Efflorescence Potential, and Phase Assemblages. Journal of Materials in Civil Engineering, 2021, 33, .	2.9	39
17	Healthy waterways and ecologically sustainable cities in <scp>Beijingâ€Tianjinâ€Hebei</scp> urban agglomeration (northern China): Challenges and future directions. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1500.	6.5	18
18	Comparative analysis of impact of human occupancy on indoor microbiomes. Frontiers of Environmental Science and Engineering, 2021, 15, 89.	6.0	14

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19	Patterns of syntrophic interactions in methanogenic conversion of propionate. Applied Microbiology and Biotechnology, 2021, 105, 8937-8949.	3.6	10
20	Progressive Microbial Community Networks with Incremental Organic Loading Rates Underlie Higher Anaerobic Digestion Performance. MSystems, 2020, 5, .	3.8	15
21	Strength, microstructure, efflorescence behavior and environmental impacts of waste glass geopolymers cured at ambient temperature. Journal of Cleaner Production, 2020, 252, 119610.	9.3	225
22	Enhancing Cd(II) sorption by red mud with heat treatment: Performance and mechanisms of sorption. Journal of Environmental Management, 2020, 255, 109866.	7.8	44
23	Diversity, function and assembly of mangrove root-associated microbial communities at a continuous fine-scale. Npj Biofilms and Microbiomes, 2020, 6, 52.	6.4	68
24	Sonneratia apetala introduction alters methane cycling microbial communities and increases methane emissions in mangrove ecosystems. Soil Biology and Biochemistry, 2020, 144, 107775.	8.8	42
25	Comparative analysis of the fermentation performance of highâ€quality milk beer strains () Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 5 0 International Journal of Dairy Technology, 2020, 73, 552-562.	2.8	0
26	Removal of ciprofloxacin as an emerging pollutant: A novel application for bauxite residue reuse. Journal of Cleaner Production, 2020, 253, 120049.	9.3	28
27	Segmenting areas of potential contamination for adaptive robotic disinfection in built environments. Building and Environment, 2020, 184, 107226.	6.9	40
28	Optimization of Medium Composition and Culture Conditions for Cell Multiplication of a High Quality Milk Beer Fermentation Yeast (Kluyveromyces marxianus). Food Science and Technology Research, 2020, 26, 351-361.	0.6	3
29	Global diversity and biogeography of bacterial communities in wastewater treatment plants. Nature Microbiology, 2019, 4, 1183-1195.	13.3	491
30	Synergistic utilization of red mud for flue-gas desulfurization and fly ash-based geopolymer preparation. Journal of Hazardous Materials, 2019, 369, 503-511.	12.4	119
31	Iodine-enhanced ultrasound degradation of sulfamethazine in water. Ultrasonics Sonochemistry, 2018, 42, 759-767.	8.2	17
32	Mechanical and microstructural characterization of geopolymers derived from red mud and fly ashes. Journal of Cleaner Production, 2018, 186, 799-806.	9.3	180
33	Effect of planting and fertilization on lead partitioning in dredged sediment. Ecotoxicology, 2018, 27, 69-80.	2.4	5
34	Assessing the Runoff Reduction Potential of Highway Swales and WinSLAMM as a Predictive Tool. Sustainability, 2018, 10, 2871.	3.2	6
35	Mechanical property and microstructure characteristics of geopolymer stabilized aggregate base. Construction and Building Materials, 2018, 191, 1120-1127.	7.2	64
36	CCl₄â€Enhanced Ultrasonic Irradiation for Ciprofloxacin Degradation and Antibiotic Activity. Water Environment Research, 2018, 90, 579-588.	2.7	15

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37	Characteristics of Cadmium Sorption by Heat-Activated Red Mud in Aqueous Solution. Scientific Reports, 2018, 8, 13558.	3.3	16
38	Microbial functional trait of rRNA operon copy numbers increases with organic levels in anaerobic digesters. ISME Journal, 2017, 11, 2874-2878.	9.8	70
39	Unexpected competitiveness of Methanosaeta populations at elevated acetate concentrations in methanogenic treatment of animal wastewater. Applied Microbiology and Biotechnology, 2017, 101, 1729-1738.	3.6	49
40	Impact of Roadway Stormwater Runoff on Microbial Contamination in the Receiving Stream. Journal of Environmental Quality, 2017, 46, 1065-1071.	2.0	7
41	Gene Turnover Contributes to the Evolutionary Adaptation of Acidithiobacillus caldus: Insights from Comparative Genomics. Frontiers in Microbiology, 2016, 7, 1960.	3.5	35
42	Temperature dependence of SET switching characteristics in phase-change memory cells. Journal Physics D: Applied Physics, 2016, 49, 385101.	2.8	0
43	Linkages of Firmicutes and Bacteroidetes populations to methanogenic process performance. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 771-781.	3.0	140
44	Strength properties of geopolymers derived from original and desulfurized red mud cured at ambient temperature. Construction and Building Materials, 2016, 125, 905-911.	7.2	106
45	Driving forces of effluent nutrient variability in field scale bioretention. Ecological Engineering, 2016, 94, 622-628.	3.6	36
46	Long-term successional dynamics of microbial association networks in anaerobic digestion processes. Water Research, 2016, 104, 1-10.	11.3	177
47	Modeling of transient thermal dissipation of nanoscale phase-change memory cells in the pulse domain. International Journal of Heat and Mass Transfer, 2016, 94, 301-305.	4.8	1
48	Distinctive non-methanogen archaeal populations in anaerobic digestion. Applied Microbiology and Biotechnology, 2016, 100, 419-430.	3.6	12
49	The Genome of Nosema sp. Isolate YNPr: A Comparative Analysis of Genome Evolution within the Nosema/Vairimorpha Clade. PLoS ONE, 2016, 11, e0162336.	2.5	10
50	Fate of free chlorine in drinking water during distribution in premise plumbing. Ecotoxicology, 2015, 24, 2151-2155.	2.4	34
51	Investigation of Sequential Dissolution of Asphalt Binder in Common Solvents by FTIR and Binder Fractionation. Journal of Materials in Civil Engineering, 2015, 27, .	2.9	11
52	Identification, Diversity and Evolution of MITEs in the Genomes of Microsporidian Nosema Parasites. PLoS ONE, 2015, 10, e0123170.	2.5	4
53	Persistence of Methanosaeta populations in anaerobic digestion during process instability. Journal of Industrial Microbiology and Biotechnology, 2015, 42, 1129-1137.	3.0	71
54	Enrichment and specific quantification of Methanocalculus in anaerobic digestion. Journal of Bioscience and Bioengineering, 2015, 120, 677-683.	2.2	5

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55	Do microorganism stoichiometric alterations affect carbon sequestration in paddy soil subjected to phosphorus input?. Ecological Applications, 2015, 25, 866-879.	3.8	18
56	Linking Stoichiometric Homeostasis of Microorganisms with Soil Phosphorus Dynamics in Wetlands Subjected to Microcosm Warming. PLoS ONE, 2014, 9, e85575.	2.5	6
57	Chemical, Mechanical, and Durability Properties of Concrete with Local Mineral Admixtures under Sulfate Environment in Northwest China. Materials, 2014, 7, 3772-3785.	2.9	48
58	Development of Methanoculleus -specific real-time quantitative PCR assay for assessing methanogen communities in anaerobic digestion. Journal of Applied Microbiology, 2014, 116, 1474-1481.	3.1	9
59	Exogenous phosphorus inputs alter complexity of soil-dissolved organic carbon in agricultural riparian wetlands. Chemosphere, 2014, 95, 572-580.	8.2	22
60	Insight into the effect of hydrogenation on efficiency of hydrothermal liquefaction and physico-chemical properties of biocrude oil. Bioresource Technology, 2014, 163, 143-151.	9.6	39
61	Attenuation of veterinary antibiotics in full-scale vermicomposting of swine manure via the housefly larvae (Musca domestica). Scientific Reports, 2014, 4, 6844.	3.3	41
62	Structure and regulation of the cellulose degradome in Clostridium cellulolyticum. Biotechnology for Biofuels, 2013, 6, 73.	6.2	49
63	Detection of African swine fever virus-like sequences in ponds in the Mississippi Delta through metagenomic sequencing. Virus Genes, 2013, 46, 441-446.	1.6	21
64	Characterization of bacterial diversity in drinking water by pyrosequencing. Water Science and Technology: Water Supply, 2013, 13, 358-367.	2.1	10
65	Fractional Characteristics of Coal Fly Ash for Beneficial Use. Journal of Materials in Civil Engineering, 2013, 25, 63-69.	2.9	12
66	Dynamic formation of zeolite synthesized from fly ash by alkaline hydrothermal conversion. Waste Management and Research, 2013, 31, 1160-1169.	3.9	5
67	Continuous Cellulosic Bioethanol Fermentation by Cyclic Fed-Batch Cocultivation. Applied and Environmental Microbiology, 2013, 79, 1580-1589.	3.1	23
68	Functional Characterization of Crp/Fnr-Type Global Transcriptional Regulators in Desulfovibrio vulgaris Hildenborough. Applied and Environmental Microbiology, 2012, 78, 1168-1177.	3.1	32
69	Impact of substrate overloading on archaeal populations in anaerobic digestion of animal waste. Journal of Applied Microbiology, 2012, 113, 1371-1379.	3.1	43
70	How sulphate-reducing microorganisms cope with stress: lessons from systems biology. Nature Reviews Microbiology, 2011, 9, 452-466.	28.6	169
71	Mechanisms of enhanced cellulosic bioethanol fermentation by co-cultivation of Clostridium and Thermoanaerobacter spp.. Bioresource Technology, 2011, 102, 9586-9592.	9.6	66
72	Robustness of archaeal populations in anaerobic co-digestion of dairy and poultry wastes. Bioresource Technology, 2011, 102, 779-785.	9.6	57

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73	Impact of alternative electron acceptors on selenium(IV) reduction by Anaeromyxobacter dehalogenans. Bioresource Technology, 2011, 102, 3578-3580.	9.6	14
74	Enhancing biomethanation of municipal waste sludge with grease trap waste as a co-substrate. Renewable Energy, 2011, 36, 1802-1807.	8.9	47
75	Coping with the Environment: How Microbes Survive Environmental Challenges. International Journal of Microbiology, 2011, 2011, 1-2.	2.3	5
76	Correlation of Genomic and Physiological Traits of Thermoanaerobacter Species with Biofuel Yields. Applied and Environmental Microbiology, 2011, 77, 7998-8008.	3.1	42
77	Microbial reduction of selenium oxyanions by Anaeromyxobacter dehalogenans. Bioresource Technology, 2010, 101, 3760-3764.	9.6	47
78	Impact of elevated nitrate on sulfate-reducing bacteria: a comparative Study of Desulfovibrio vulgaris. ISME Journal, 2010, 4, 1386-1397.	9.8	67
79	Hydrogen peroxideâ€induced oxidative stress responses in Desulfovibrio vulgaris Hildenborough. Environmental Microbiology, 2010, 12, 2645-2657.	3.8	46
80	Global Transcriptional, Physiological, and Metabolite Analyses of the Responses of Desulfovibrio vulgaris Hildenborough to Salt Adaptation. Applied and Environmental Microbiology, 2010, 76, 1574-1586.	3.1	64
81	Sequencing of Multiple Clostridial Genomes Related to Biomass Conversion and Biofuel Production. Journal of Bacteriology, 2010, 192, 6494-6496.	2.2	81
82	The Electron Transfer System of Syntrophically Grown Desulfovibrio vulgaris. Journal of Bacteriology, 2009, 191, 5793-5801.	2.2	133
83	Responses of Soil Bacteria to Long-Term and Short-Term Cadmium Stress as Revealed by Microbial Community Analysis. Bulletin of Environmental Contamination and Toxicology, 2009, 82, 367-372.	2.7	32
84	Characterization of the impact of acetate and lactate on ethanolic fermentation by Thermoanaerobacter ethanolicus. Bioresource Technology, 2009, 100, 5955-5965.	9.6	55
85	Transcriptional response of Desulfovibrio vulgaris Hildenborough to oxidative stress mimicking environmental conditions. Archives of Microbiology, 2008, 189, 451-461.	2.2	37
86	Energy metabolism in Desulfovibrio vulgaris Hildenborough: insights from transcriptome analysis. Antonie Van Leeuwenhoek, 2008, 93, 347-362.	1.7	66
87	Cell-Wide Responses to Low-Oxygen Exposure inDesulfovibrio vulgarisHildenborough. Journal of Bacteriology, 2007, 189, 5996-6010.	2.2	94
88	Analysis of a Ferric Uptake Regulator (Fur) Mutant of Desulfovibrio vulgaris Hildenborough. Applied and Environmental Microbiology, 2007, 73, 5389-5400.	3.1	70
89	Response of Desulfovibrio vulgaris to Alkaline Stress. Journal of Bacteriology, 2007, 189, 8944-8952.	2.2	62
90	Genomic and microarray analysis of aromatics degradation in Geobacter metallireducens and comparison to a Geobacter isolate from a contaminated field site. BMC Genomics, 2007, 8, 180.	2.8	87

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91	Salt Stress in Desulfovibrio vulgaris Hildenborough: an Integrated Genomics Approach. Journal of Bacteriology, 2006, 188, 4068-4078.	2.2	155
92	Temporal Transcriptomic Analysis as Desulfovibrio vulgaris Hildenborough Transitions into Stationary Phase during Electron Donor Depletion. Applied and Environmental Microbiology, 2006, 72, 5578-5588.	3.1	57
93	Global Analysis of Heat Shock Response in Desulfovibrio vulgaris Hildenborough. Journal of Bacteriology, 2006, 188, 1817-1828.	2.2	106
94	Energetic Consequences of Nitrite Stress in Desulfovibrio vulgaris Hildenborough, Inferred from Global Transcriptional Analysis. Applied and Environmental Microbiology, 2006, 72, 4370-4381.	3.1	92
95	Acetate Threshold Concentrations Suggest Varying Energy Requirements during Anaerobic Respiration by Anaeromyxobacter dehalogenans. Applied and Environmental Microbiology, 2004, 70, 6940-6943.	3.1	23
96	The generation of high biomass from chlororespiring bacteria using a continuous fed-batch bioreactor. Applied Microbiology and Biotechnology, 2004, 65, 377-382.	3.6	5
97	Characterization of Fe(III) Reduction by Chlororespiring Anaeromxyobacter dehalogenans. Applied and Environmental Microbiology, 2003, 69, 2712-2718.	3.1	126
98	PERFORMANCE VARIATIONS OF COD AND NITROGEN REMOVAL BY VEGETATED SUBMERGED BED WETLANDS. Journal of the American Water Resources Association, 2002, 38, 1679-1689.	2.4	24
99	Induction characteristics of reductive dehalogenation in the ortho-halophenol-respiring bacterium, Anaeromyxobacter dehalogenans. Biodegradation, 2002, 13, 307-316.	3.0	31
100	Seasonal Variations in Hydraulic Performance of Rock-Plant Filters. Environmental Technology (United Kingdom), 2001, 22, 991-999.	2.2	13