# Qiang He

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5820135/publications.pdf

Version: 2024-02-01

| 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 | Global diversity and biogeography of bacterial communities in wastewater treatment plants. Nature Microbiology, 2019, 4, 1183-1195. | 13.3 | 491 |
| 2 | 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 |
| 3 | Mechanical and microstructural characterization of geopolymers derived from red mud and fly ashes. Journal of Cleaner Production, 2018, 186, 799-806. | 9.3 | 180 |
| 4 | Long-term successional dynamics of microbial association networks in anaerobic digestion processes. Water Research, 2016, 104, 1-10. | 11.3 | 177 |
| 5 | How sulphate-reducing microorganisms cope with stress: lessons from systems biology. Nature Reviews Microbiology, 2011, 9, 452-466. | 28.6 | 169 |
| 6 | Salt Stress in Desulfovibrio vulgaris Hildenborough: an Integrated Genomics Approach. Journal of Bacteriology, 2006, 188, 4068-4078. | 2.2 | 155 |
| 7 | Linkages of Firmicutes and Bacteroidetes populations to methanogenic process performance. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 771-781. | 3.0 | 140 |
| 8 | The Electron Transfer System of Syntrophically Grown Desulfovibrio vulgaris. Journal of Bacteriology, 2009, 191, 5793-5801. | 2.2 | 133 |
| 9 | Characterization of Fe(III) Reduction by Chlororespiring Anaeromxyobacter dehalogenans. Applied and Environmental Microbiology, 2003, 69, 2712-2718. | 3.1 | 126 |
| 10 | 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 |
| 11 | Global Analysis of Heat Shock Response in Desulfovibrio vulgaris Hildenborough. Journal of Bacteriology, 2006, 188, 1817-1828. | 2.2 | 106 |
| 12 | 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 |
| 13 | Cell-Wide Responses to Low-Oxygen Exposure inDesulfovibrio vulgarisHildenborough. Journal of Bacteriology, 2007, 189, 5996-6010. | 2.2 | 94 |
| 14 | 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 |
| 15 | 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 |
| 16 | Sequencing of Multiple Clostridial Genomes Related to Biomass Conversion and Biofuel Production. Journal of Bacteriology, 2010, 192, 6494-6496. | 2.2 | 81 |
| 17 | Persistence of Methanosaeta populations in anaerobic digestion during process instability. Journal of Industrial Microbiology and Biotechnology, 2015, 42, 1129-1137. | 3.0 | 71 |
| 18 | Analysis of a Ferric Uptake Regulator (Fur) Mutant of Desulfovibrio vulgaris Hildenborough. Applied and Environmental Microbiology, 2007, 73, 5389-5400. | 3.1 | 70 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Microbial functional trait of rRNA operon copy numbers increases with organic levels in anaerobic digesters. ISME Journal, 2017, 11, 2874-2878. | 9.8 | 70 |
| 20 | 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 |
| 21 | Impact of elevated nitrate on sulfate-reducing bacteria: a comparative Study of Desulfovibrio vulgaris. ISME Journal, 2010, 4, 1386-1397. | 9.8 | 67 |
| 22 | Energy metabolism in Desulfovibrio vulgaris Hildenborough: insights from transcriptome analysis. Antonie Van Leeuwenhoek, 2008, 93, 347-362. | 1.7 | 66 |
| 23 | Mechanisms of enhanced cellulosic bioethanol fermentation by co-cultivation of Clostridium and Thermoanaerobacter spp.. Bioresource Technology, 2011, 102, 9586-9592. | 9.6 | 66 |
| 24 | 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 |
| 25 | Mechanical property and microstructure characteristics of geopolymer stabilized aggregate base. Construction and Building Materials, 2018, 191, 1120-1127. | 7.2 | 64 |
| 26 | Response of Desulfovibrio vulgaris to Alkaline Stress. Journal of Bacteriology, 2007, 189, 8944-8952. | 2.2 | 62 |
| 27 | 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 |
| 28 | Robustness of archaeal populations in anaerobic co-digestion of dairy and poultry wastes. Bioresource Technology, 2011, 102, 779-785. | 9.6 | 57 |
| 29 | Characterization of the impact of acetate and lactate on ethanolic fermentation by Thermoanaerobacter ethanolicus. Bioresource Technology, 2009, 100, 5955-5965. | 9.6 | 55 |
| 30 | SCycDB: A curated functional gene database for metagenomic profiling of sulphur cycling pathways. Molecular Ecology Resources, 2021, 21, 924-940. | 4.8 | 52 |
| 31 | Structure and regulation of the cellulose degradome in Clostridium cellulolyticum. Biotechnology for Biofuels, 2013, 6, 73. | 6.2 | 49 |
| 32 | 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 |
| 33 | 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 |
| 34 | Microbial reduction of selenium oxyanions by Anaeromyxobacter dehalogenans. Bioresource Technology, 2010, 101, 3760-3764. | 9.6 | 47 |
| 35 | Enhancing biomethanation of municipal waste sludge with grease trap waste as a co-substrate. Renewable Energy, 2011, 36, 1802-1807. | 8.9 | 47 |
| 36 | Hydrogen peroxideâ€induced oxidative stress responses in Desulfovibrio vulgaris Hildenborough. Environmental Microbiology, 2010, 12, 2645-2657. | 3.8 | 46 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | 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 |
| 38 | Impact of substrate overloading on archaeal populations in anaerobic digestion of animal waste. Journal of Applied Microbiology, 2012, 113, 1371-1379. | 3.1 | 43 |
| 39 | Correlation of Genomic and Physiological Traits of Thermoanaerobacter Species with Biofuel Yields. Applied and Environmental Microbiology, 2011, 77, 7998-8008. | 3.1 | 42 |
| 40 | 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 |
| 41 | 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 |
| 42 | Segmenting areas of potential contamination for adaptive robotic disinfection in built environments. Building and Environment, 2020, 184, 107226. | 6.9 | 40 |
| 43 | 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 |
| 44 | 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 |
| 45 | Transcriptional response of Desulfovibrio vulgaris Hildenborough to oxidative stress mimicking environmental conditions. Archives of Microbiology, 2008, 189, 451-461. | 2.2 | 37 |
| 46 | Driving forces of effluent nutrient variability in field scale bioretention. Ecological Engineering, 2016, 94, 622-628. | 3.6 | 36 |
| 47 | Toward broader applications of iron ore waste in pollution control: Adsorption of norfloxacin. Journal of Hazardous Materials, 2021, 418, 126273. | 12.4 | 36 |
| 48 | Gene Turnover Contributes to the Evolutionary Adaptation of Acidithiobacillus caldus: Insights from Comparative Genomics. Frontiers in Microbiology, 2016, 7, 1960. | 3.5 | 35 |
| 49 | Fate of free chlorine in drinking water during distribution in premise plumbing. Ecotoxicology, 2015, 24, 2151-2155. | 2.4 | 34 |
| 50 | 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 |
| 51 | Functional Characterization of Crp/Fnr-Type Global Transcriptional Regulators in Desulfovibrio vulgaris Hildenborough. Applied and Environmental Microbiology, 2012, 78, 1168-1177. | 3.1 | 32 |
| 52 | Induction characteristics of reductive dehalogenation in the ortho-halophenol-respiring bacterium, Anaeromyxobacter dehalogenans. Biodegradation, 2002, 13, 307-316. | 3.0 | 31 |
| 53 | Removal of ciprofloxacin as an emerging pollutant: A novel application for bauxite residue reuse. Journal of Cleaner Production, 2020, 253, 120049. | 9.3 | 28 |
| 54 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | 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 |
| 56 | Understanding building-occupant-microbiome interactions toward healthy built environments: A review. Frontiers of Environmental Science and Engineering, 2021, 15, 65. | 6.0 | 24 |
| 57 | Acetate Threshold Concentrations Suggest Varying Energy Requirements during Anaerobic Respiration by Anaeromyxobacter dehalogenans. Applied and Environmental Microbiology, 2004, 70, 6940-6943. | 3.1 | 23 |
| 58 | Continuous Cellulosic Bioethanol Fermentation by Cyclic Fed-Batch Cocultivation. Applied and Environmental Microbiology, 2013, 79, 1580-1589. | 3.1 | 23 |
| 59 | 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 |
| 60 | Exogenous phosphorus inputs alter complexity of soil-dissolved organic carbon in agricultural riparian wetlands. Chemosphere, 2014, 95, 572-580. | 8.2 | 22 |
| 61 | 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 |
| 62 | 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 |
| 63 | A single-step DNAzyme sensor for ultra-sensitive and rapid detection of Pb2+ ions. Electrochimica Acta, 2021, 368, 137551. | 5.2 | 19 |
| 64 | Do microorganism stoichiometric alterations affect carbon sequestration in paddy soil subjected to phosphorus input?. Ecological Applications, 2015, 25, 866-879. | 3.8 | 18 |
| 65 | 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 |
| 66 | Iodine-enhanced ultrasound degradation of sulfamethazine in water. Ultrasonics Sonochemistry, 2018, 42, 759-767. | 8.2 | 17 |
| 67 | Characteristics of Cadmium Sorption by Heat-Activated Red Mud in Aqueous Solution. Scientific Reports, 2018, 8, 13558. | 3.3 | 16 |
| 68 | MCycDB: A curated database for comprehensively profiling methane cycling processes of environmental microbiomes. Molecular Ecology Resources, 2022, 22, 1803-1823. | 4.8 | 16 |
| 69 | CCl<sub>4</sub>â€Enhanced Ultrasonic Irradiation for Ciprofloxacin Degradation and Antibiotic Activity. Water Environment Research, 2018, 90, 579-588. | 2.7 | 15 |
| 70 | Progressive Microbial Community Networks with Incremental Organic Loading Rates Underlie Higher Anaerobic Digestion Performance. MSystems, 2020, 5, . | 3.8 | 15 |
| 71 | Impact of alternative electron acceptors on selenium(IV) reduction by Anaeromyxobacter dehalogenans. Bioresource Technology, 2011, 102, 3578-3580. | 9.6 | 14 |
| 72 | Comparative analysis of impact of human occupancy on indoor microbiomes. Frontiers of Environmental Science and Engineering, 2021, 15, 89. | 6.0 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Seasonal Variations in Hydraulic Performance of Rock-Plant Filters. Environmental Technology (United Kingdom), 2001, 22, 991-999. | 2.2 | 13 |
| 74 | Fractional Characteristics of Coal Fly Ash for Beneficial Use. Journal of Materials in Civil Engineering, 2013, 25, 63-69. | 2.9 | 12 |
| 75 | Distinctive non-methanogen archaeal populations in anaerobic digestion. Applied Microbiology and Biotechnology, 2016, 100, 419-430. | 3.6 | 12 |
| 76 | 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 |
| 77 | Characterization of bacterial diversity in drinking water by pyrosequencing. Water Science and Technology: Water Supply, 2013, 13, 358-367. | 2.1 | 10 |
| 78 | 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 |
| 79 | Patterns of syntrophic interactions in methanogenic conversion of propionate. Applied Microbiology and Biotechnology, 2021, 105, 8937-8949. | 3.6 | 10 |
| 80 | 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 |
| 81 | Impact of Roadway Stormwater Runoff on Microbial Contamination in the Receiving Stream. Journal of Environmental Quality, 2017, 46, 1065-1071. | 2.0 | 7 |
| 82 | Passive Immunization of Chickens with Anti-Enterobactin Egg Yolk Powder for Campylobacter Control. Vaccines, 2021, 9, 569. | 4.4 | 7 |
| 83 | Linking Stoichiometric Homeostasis of Microorganisms with Soil Phosphorus Dynamics in Wetlands Subjected to Microcosm Warming. PLoS ONE, 2014, 9, e85575. | 2.5 | 6 |
| 84 | Assessing the Runoff Reduction Potential of Highway Swales and WinSLAMM as a Predictive Tool. Sustainability, 2018, 10, 2871. | 3.2 | 6 |
| 85 | Biodegradation of waste asphalt shingle by white rot fungi. Journal of Cleaner Production, 2021, 310, 127448. | 9.3 | 6 |
| 86 | 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 |
| 87 | 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 |
| 88 | Coping with the Environment: How Microbes Survive Environmental Challenges. International Journal of Microbiology, 2011, 2011, 1-2. | 2.3 | 5 |
| 89 | Dynamic formation of zeolite synthesized from fly ash by alkaline hydrothermal conversion. Waste Management and Research, 2013, 31, 1160-1169. | 3.9 | 5 |
| 90 | Enrichment and specific quantification of Methanocalculus in anaerobic digestion. Journal of Bioscience and Bioengineering, 2015, 120, 677-683. | 2.2 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Effect of planting and fertilization on lead partitioning in dredged sediment. Ecotoxicology, 2018, 27, 69-80. | 2.4 | 5 |
| 92 | Identification, Diversity and Evolution of MITEs in the Genomes of Microsporidian Nosema Parasites. PLoS ONE, 2015, 10, e0123170. | 2.5 | 4 |
| 93 | Microbiome Profiles of Nebulizers in Hospital Use. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2022, , . | 1.4 | 4 |
| 94 | 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 |
| 95 | Microbiome-Based Source Identification of Microbial Contamination in Nebulizers Used by Inpatients. Journal of Hospital Infection, 2022, , . | 2.9 | 2 |
| 96 | 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 |
| 97 | 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 |
| 98 | Temperature dependence of SET switching characteristics in phase-change memory cells. Journal Physics D: Applied Physics, 2016, 49, 385101. | 2.8 | 0 |
| 99 | Comparative analysis of the fermentation performance of highâ€quality milk beer strains () Tj ETQq1 1 0.784314 rgBT /Overlock 10 T<br>International Journal of Dairy Technology, 2020, 73, 552-562. | 2.8 | 0 |
| 100 | Cover Image, Volume 8, Issue 2. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1515. | 6.5 | 0 |