

# Qigui Niu

## List of Publications by Year in descending order

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73  
papers

2,849  
citations

126907

33  
h-index

182427

51  
g-index

73  
all docs

73  
docs citations

73  
times ranked

2391  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesophilic methane fermentation of chicken manure at a wide range of ammonia concentration: Stability, inhibition and recovery. <i>Bioresource Technology</i> , 2013, 137, 358-367.	9.6	178
2	Effects of temperature on anammox performance and community structure. <i>Bioresource Technology</i> , 2018, 260, 186-195.	9.6	114
3	Effect of influent COD/SO <sub>4</sub> <sup>2-</sup> ratios on UASB treatment of a synthetic sulfate-containing wastewater. <i>Chemosphere</i> , 2015, 130, 24-33.	8.2	99
4	Trace metals requirements for continuous thermophilic methane fermentation of high-solid food waste. <i>Chemical Engineering Journal</i> , 2013, 222, 330-336.	12.7	98
5	UASB performance and electron competition between methane-producing archaea and sulfate-reducing bacteria in treating sulfate-rich wastewater containing ethanol and acetate. <i>Bioresource Technology</i> , 2013, 137, 349-357.	9.6	97
6	Characterization of methanogenesis, acidogenesis and hydrolysis in thermophilic methane fermentation of chicken manure. <i>Chemical Engineering Journal</i> , 2014, 244, 587-596.	12.7	96
7	Microbial community shifts and biogas conversion computation during steady, inhibited and recovered stages of thermophilic methane fermentation on chicken manure with a wide variation of ammonia. <i>Bioresource Technology</i> , 2013, 146, 223-233.	9.6	88
8	UASB treatment of chemical synthesis-based pharmaceutical wastewater containing rich organic sulfur compounds and sulfate and associated microbial characteristics. <i>Chemical Engineering Journal</i> , 2015, 260, 55-63.	12.7	88
9	Upgrading of the symbiosis of Nitrosomonas and anammox bacteria in a novel single-stage partial nitritation-anammox system: Nitrogen removal potential and Microbial characterization. <i>Bioresource Technology</i> , 2017, 244, 463-472.	9.6	85
10	Thermophilic anaerobic digestion of coffee grounds with and without waste activated sludge as co-substrate using a submerged AnMBR: System amendments and membrane performance. <i>Bioresource Technology</i> , 2013, 150, 249-258.	9.6	83
11	Comparing mesophilic and thermophilic anaerobic digestion of chicken manure: Microbial community dynamics and process resilience. <i>Waste Management</i> , 2015, 43, 114-122.	7.4	73
12	Nitrogen removal performance and loading capacity of a novel single-stage nitritation-anammox system with syntrophic micro-granules. <i>Bioresource Technology</i> , 2017, 236, 119-128.	9.6	66
13	PFOA and PFOS interact with superoxide dismutase and induce cytotoxicity in mouse primary hepatocytes: A combined cellular and molecular methods. <i>Environmental Research</i> , 2019, 175, 63-70.	7.5	66
14	Exploring the effects of operational mode and microbial interactions on bacterial community assembly in a one-stage partial-nitritation anammox reactor using integrated multi-omics. <i>Microbiome</i> , 2019, 7, 122.	11.1	65
15	Catalase and superoxide dismutase response and the underlying molecular mechanism for naphthalene. <i>Science of the Total Environment</i> , 2020, 736, 139567.	8.0	64
16	Stoichiometric variation and loading capacity of a high-loading anammox attached film expanded bed (AAEEB) reactor. <i>Bioresource Technology</i> , 2018, 253, 130-140.	9.6	63
17	A gradual change between methanogenesis and sulfidogenesis during a long-term UASB treatment of sulfate-rich chemical wastewater. <i>Science of the Total Environment</i> , 2018, 636, 168-176.	8.0	62
18	Biodegradable organic matter-containing ammonium wastewater treatment through simultaneous partial nitritation, anammox, denitrification and COD oxidization process. <i>Science of the Total Environment</i> , 2020, 714, 136740.	8.0	62

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19	Substrate inhibition and concentration control in an UASB-Anammox process. <i>Bioresource Technology</i> , 2017, 238, 263-272.	9.6	61
20	Long-term operation performance and variation of substrate tolerance ability in an anammox attached film expanded bed (AAFEB) reactor. <i>Bioresource Technology</i> , 2016, 211, 31-40.	9.6	57
21	Process stability and the recovery control associated with inhibition factors in a UASB-anammox reactor with a long-term operation. <i>Bioresource Technology</i> , 2016, 203, 132-141.	9.6	57
22	Long-term stability of thermophilic co-digestion submerged anaerobic membrane reactor encountering high organic loading rate, persistent propionate and detectable hydrogen in biogas. <i>Bioresource Technology</i> , 2013, 149, 92-102.	9.6	55
23	Accelerated bio-methane production rate in thermophilic digestion of cardboard with appropriate biochar: Dose-response kinetic assays, hybrid synergistic mechanism, and microbial networks analysis. <i>Bioresource Technology</i> , 2019, 290, 121782.	9.6	54
24	Effects of substrate shock on extracellular polymeric substance (EPS) excretion and characteristics of attached biofilm anammox granules. <i>RSC Advances</i> , 2016, 6, 113289-113297.	3.6	53
25	Nitrogen removal performance and microbial community structure in the start-up and substrate inhibition stages of an anammox reactor. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 88-95.	2.2	53
26	Effect of ammonia inhibition on microbial community dynamic and process functional resilience in mesophilic methane fermentation of chicken manure. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 2161-2169.	3.2	50
27	Response of microalgae to elevated CO <sub>2</sub> and temperature: impact of climate change on freshwater ecosystems. <i>Environmental Science and Pollution Research</i> , 2016, 23, 19847-19860.	5.3	46
28	Characterization of three types of inhibition and their recovery processes in an anammox UASB reactor. <i>Biochemical Engineering Journal</i> , 2016, 109, 212-221.	3.6	45
29	The dosage-effect of biochar on anaerobic digestion under the suppression of oily sludge: Performance variation, microbial community succession and potential detoxification mechanisms. <i>Journal of Hazardous Materials</i> , 2022, 421, 126819.	12.4	40
30	The auto fluorescence characteristics, specific activity, and microbial community structure in batch tests of mono-chicken manure digestion. <i>Waste Management</i> , 2019, 83, 57-67.	7.4	39
31	The Treatment Performance and the Bacteria Preservation of Anammox: A Review. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	2.4	38
32	Anaerobic co-digestion of chicken manure and cardboard waste: Focusing on methane production, microbial community analysis and energy evaluation. <i>Bioresource Technology</i> , 2021, 321, 124429.	9.6	38
33	Operation stability and recovery performance in an Anammox EGSB reactor after pH shock. <i>Ecological Engineering</i> , 2016, 90, 50-56.	3.6	35
34	Performance and microbial community of anammox in presence of micro-molecule carbon source. <i>Chemosphere</i> , 2018, 205, 545-552.	8.2	33
35	Probing the toxicity of long-chain fluorinated surfactants: Interaction mechanism between perfluorodecanoic acid and lysozyme. <i>Journal of Molecular Liquids</i> , 2019, 285, 607-615.	4.9	33
36	Enhanced methanogenic degradation of cellulose-containing sewage via fungi-methanogens syntrophic association in an anaerobic membrane bioreactor. <i>Bioresource Technology</i> , 2017, 245, 810-818.	9.6	32

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37	Efficient methanogenic degradation of alcohol ethoxylates and microbial community acclimation in treatment of municipal wastewater using a submerged anaerobic membrane bioreactor. <i>Bioresource Technology</i> , 2017, 226, 181-190.	9.6	30
38	Evaluation of functional microbial community's difference in full-scale and lab-scale anaerobic digesters feeding with different organic solid waste: Effects of substrate and operation factors. <i>Bioresource Technology</i> , 2015, 193, 110-118.	9.6	28
39	Reactor kinetics evaluation and performance investigation of a long-term operated UASB-anammox mixed culture process. <i>International Biodeterioration and Biodegradation</i> , 2016, 108, 24-33.	3.9	28
40	Optimizing biomethane production of mesophilic chicken manure and sheep manure digestion: Mono-digestion and co-digestion kinetic investigation, autofluorescence analysis and microbial community assessment. <i>Journal of Environmental Management</i> , 2019, 237, 103-113.	7.8	28
41	Effect of temperature on the anaerobic digestion of cardboard with waste yeast added: Dose-response kinetic assays, temperature coefficient and microbial co-metabolism. <i>Journal of Cleaner Production</i> , 2020, 275, 122949.	9.3	26
42	Cytotoxicity of perfluorodecanoic acid on mouse primary nephrocytes through oxidative stress: Combined analysis at cellular and molecular levels. <i>Journal of Hazardous Materials</i> , 2020, 393, 122444.	12.4	26
43	Effects of soluble microbial products (SMP) on the performance of an anammox attached film expanded bed (AAFEb) reactor: Synergistic interaction and toxic shock. <i>Bioresource Technology</i> , 2016, 222, 261-269.	9.6	25
44	Characterization of the interaction between carbon black and three important antioxidant proteins using multi spectroscopy and modeling simulations. <i>Chemosphere</i> , 2019, 222, 823-830.	8.2	24
45	Practice of integrated system of biofilter and constructed wetland in highly polluted surface water treatment. <i>Ecological Engineering</i> , 2015, 75, 462-469.	3.6	23
46	Factors associated with the diversification of the microbial communities within different natural and artificial saline environments. <i>Ecological Engineering</i> , 2015, 83, 476-484.	3.6	23
47	Perfluorodecanoic acid-induced oxidative stress and DNA damage investigated at the cellular and molecular levels. <i>Ecotoxicology and Environmental Safety</i> , 2019, 185, 109699.	6.0	23
48	The toxic effects of alizarin red S on catalase at the molecular level. <i>RSC Advances</i> , 2019, 9, 33368-33377.	3.6	17
49	Inhibition and acclimation of nitrifiers exposed to erythromycin. <i>Ecological Engineering</i> , 2016, 94, 337-343.	3.6	16
50	Bio-kinetics evaluation and batch modeling of the anammox mixed culture in UASB and EGSB reactors: batch performance comparison and kinetic model assessment. <i>RSC Advances</i> , 2016, 6, 3487-3500.	3.6	16
51	[Bmim]FeCl <sub>4</sub> mediated inhibition and toxicity during anaerobic digestion: Dose-response kinetics, biochar-dependent detoxification and microbial resistance. <i>Water Research</i> , 2022, 210, 117969.	11.3	16
52	Treatment of 3,4,5-trimethoxybenzaldehyde and Di-bromo-aldehyde manufacturing wastewater by the coupled Fenton pretreatment and UASB reactor with emphasis on optimization and chemicals analysis. <i>Separation and Purification Technology</i> , 2015, 142, 40-47.	7.9	15
53	Single and simultaneous effects of naphthalene and salinity on anaerobic digestion: Response surface methodology, microbial community analysis and potential functions prediction. <i>Environmental Pollution</i> , 2021, 291, 118188.	7.5	15
54	Biogas production, DOM performance and microbial community changes in anaerobic co-digestion of chicken manure with <i>Enteromorpha</i> and green waste. <i>Biomass and Bioenergy</i> , 2022, 158, 106359.	5.7	12

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55	Revealing the correlation of biomethane generation, DOM fluorescence, and microbial community in the mesophilic co-digestion of chicken manure and sheep manure at different mixture ratio. <i>Environmental Science and Pollution Research</i> , 2019, 26, 19411-19424.	5.3	11
56	Enhancement methane fermentation of <i>Enteromorpha prolifera</i> waste by <i>Saccharomyces cerevisiae</i> : batch kinetic investigation, dissolved organic matter characterization, and synergistic mechanism. <i>Environmental Science and Pollution Research</i> , 2020, 27, 16254-16267.	5.3	11
57	Enhanced anaerobic performance and SMD process in treatment of sulfate and organic S-rich TMBA manufacturing wastewater by micro-electric field "zero valent iron-UASB. <i>Journal of Hazardous Materials</i> , 2019, 379, 120695.	12.4	8
58	Optimization of Biomethane Production in Mono-Cardboard Digestion: Key Parameters Influence, Batch Test Kinetic Evaluation, and DOM Indicators Variation. <i>Energy &amp; Fuels</i> , 2019, 33, 4340-4351.	5.1	8
59	Synergistic co-digestion of waste commercial yeast and chicken manure: Kinetic simulation, DOM variation and microbial community assessment. <i>Renewable Energy</i> , 2020, 162, 2272-2284.	8.9	8
60	Response of earthworm coelomocytes and catalase to pentanone and hexanone: a revelation of the toxicity of conventional solvents at the cellular and molecular level. <i>Environmental Science and Pollution Research</i> , 2022, 29, 44282-44296.	5.3	6
61	Study of the effects of ultrafine carbon black on the structure and function of trypsin. <i>Journal of Molecular Recognition</i> , 2021, 34, e2874.	2.1	5
62	Toxic effect and mechanism of ultrafine carbon black on mouse primary splenocytes and two digestive enzymes. <i>Ecotoxicology and Environmental Safety</i> , 2021, 212, 111980.	6.0	5
63	Biomass Energy Using Methane and Hydrogen from Waste Materials. , 2015, , 131-157.		5
64	Efficient pollutants removal and microbial flexibility under high-salt gradient of an oilfield wastewater treatment system. <i>Science of the Total Environment</i> , 2022, 823, 153619.	8.0	5
65	Biochar assisted cellulose anaerobic digestion under the inhibition of dodecyl dimethyl benzyl ammonium chloride: Dose-response kinetic assays, performance variation, potential promotion mechanisms. <i>Journal of Environmental Management</i> , 2022, 312, 114934.	7.8	5
66	Promoted biodegradation of para-ester wastewater by electrostimulated ZVI assisting novel UBF/ceramic membrane MBR and microbial community. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 113, 285-292.	5.3	4
67	Recycling of Livestock Manure into Bioenergy. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2016, , 165-186.	1.1	3
68	Influence of attapulgite addition on the biological performance and microbial communities of submerged dynamic membrane bioreactor. <i>Journal of Water Reuse and Desalination</i> , 2017, 7, 488-501.	2.3	3
69	Influence of n-Hexadecane and Naphthalene on Anaerobic Digestion: Kinetic Simulation, DOM Variation and Microbial Community Assessment. <i>IOP Conference Series: Earth and Environmental Science</i> , 0, 555, 012038.	0.3	3
70	Investigation of the process stability of different anammox configurations and assessment of the simulation validity of various anammox-based kinetic models. <i>RSC Advances</i> , 2020, 10, 39171-39186.	3.6	2
71	Effect of pH Shock and H <sub>2</sub> S Inhibition on the Competition between Methane Production and Sulfate Reduction in a UASB Reactor. <i>Journal of Japan Society on Water Environment</i> , 2015, 38, 1-8.	0.4	0
72	Conversion of manure to bioenergy and biochemicals via anaerobic digestion. , 2022, , 69-90.		0

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73	Stress-Responses of Performance and Microbial Community in Anaerobic Digestion System Under Long-Term Enrichment of Phenanthrene. <i>Advances in Transdisciplinary Engineering</i> , 2021, , .	0.1	0