Qunhui Wang

List of Publications by Year in Descending Order

131 papers	2,384 citations	26 h-index	43 g-index
135 ext. papers	3,138 ext. citations	6 avg, IF	5.52 L-index

#	Paper	IF	Citations
131	High efficiency three-dimensional electrochemical treatment of amoxicillin wastewater using Mn-Co/GAC particle electrodes and optimization of operating condition.. *Environmental Research*, **2022**, 209, 112728	7.9	1
130	Waste cooking oil used as carbon source for microbial lipid production: Promoter or inhibitor. *Environmental Research*, **2022**, 203, 111881	7.9	10
129	Heavy metal leaching behaviour and long-term environmental risk assessment of cement-solidified municipal solid waste incineration fly ash in sanitary landfill.. *Chemosphere*, **2022**, 134571	8.4	1
128	An innovative approach for reducing the water and alkali consumption in the lactic acid fermentation via the reuse of pretreated liquid.. *Bioresource Technology*, **2022**, 352, 127108	11	2
127	Biodrying of biogas residue through a thermophilic bacterial agent inoculation: insights into dewatering contribution and microbial mechanism.. *Bioresource Technology*, **2022**, 127256	11	2
126	Adding activated carbon to the system with added zero-valent iron further improves anaerobic digestion performance by alleviating ammonia inhibition and promoting DIET. *Journal of Environmental Chemical Engineering*, **2021**, 9, 106616	6.8	2
125	Effect of co-digestion of tylosin fermentation dreg and food waste on anaerobic digestion performance. *Bioresource Technology*, **2021**, 325, 124693	11	22
124	Recent advances in the separation and purification of lactic acid from fermentation broth. *Process Biochemistry*, **2021**, 104, 142-151	4.8	12
123	Novel study on microbial fuel cells via a comprehensive bibliometric and dynamic approach. *Reviews on Environmental Health*, **2021**,	3.8	4
122	Progress in research and development of particle electrodes for three-dimensional electrochemical treatment of wastewater: a review. *Environmental Science and Pollution Research*, **2021**, 28, 47800-47824	5.1	5
121	Removal of heavy metals in municipal solid waste incineration fly ash using lactic acid fermentation broth. *Environmental Science and Pollution Research*, **2021**, 28, 62716-62725	5.1	0
120	Chloride removal from municipal solid waste incineration fly ash using lactic acid fermentation broth. *Waste Management*, **2021**, 130, 23-29	8.6	3
119	Effect of pH regulation mode on byproduct ethanol generated from the lactic acid fermentation of Sophora flavescens residues. *Journal of Cleaner Production*, **2021**, 279, 123536	10.3	6
118	Effect of ultrasonic pretreatment on chain elongation of saccharified residue from food waste by anaerobic fermentation. *Environmental Pollution*, **2021**, 268, 115936	9.3	21
117	Simultaneous Domestic Wastewater Treatment and Electricity Generation in Microbial Fuel Cell with Mn(IV) Oxide Addition. *ChemistrySelect*, **2021**, 6, 369-375	1.8	2
116	Microbial lipid production from banana straw hydrolysate and ethanol stillage. *Environmental Science and Pollution Research*, **2021**, 28, 29357-29368	5.1	4
115	Investigation and Optimization of Chitosan Performance in Flocculating Kaolin Suspensions Using a Real-Time Suspending Solid Concentration Measuring Method. *Water (Switzerland)*, **2021**, 13, 513	3	0

114	Re-using ammonium-rich wastewater as a moisture conditioning agent during composting thermophilic period improves composting performance. *Bioresource Technology*, **2021**, 332, 125084	11	3
113	Characterization and Hydration Mechanism of Ammonia Soda Residue and Portland Cement Composite Cementitious Material. *Materials*, **2021**, 14,	3.5	1
112	A review of root exudates and rhizosphere microbiome for crop production. *Environmental Science and Pollution Research*, **2021**, 28, 54497-54510	5.1	10
111	Research trend analysis of composting based on Web of Science database. *Environmental Science and Pollution Research*, **2021**, 28, 59528-59541	5.1	0
110	Effect of zero-valent iron addition on the biogas fermentation of food waste after anaerobic preservation. *Journal of Environmental Chemical Engineering*, **2021**, 9, 106013	6.8	3
109	Lactic acid production from co-fermentation of food waste and spent mushroom substance with Aspergillus niger cellulase. *Bioresource Technology*, **2021**, 337, 125365	11	9
108	Preliminary determination of antibacterial substances during anaerobic preservation of food waste and their effects on methanogenesis. *Environmental Technology and Innovation*, **2021**, 24, 101813	7	1
107	Nitrate-rich wastewater discharged from a bio-trickling filter can be reused as a moisture conditioning agent for organic waste composting. *Environmental Technology and Innovation*, **2021**, 24, 101932	7	0
106	Effects of different lignocellulosic wastes on alleviating acidification of L-lactic acid production from food waste fermentation. *Bioresource Technology*, **2021**, 342, 126043	11	1
105	Mesophilic condition is more conducive to methane production yield and tylosin removal on tylosin fermentation dreg anaerobic digestion. *Bioresource Technology*, **2021**, 341, 125806	11	0
104	Composting-a solution of eliminating a nitrite-rich wastewater by reusing it as a moisture conditioning agent. *Chemosphere*, **2021**, 284, 131365	8.4	2
103	Phenol removal via activated carbon from co-pyrolysis of waste coal tar pitch and vinasse. *Korean Journal of Chemical Engineering*, **2021**, 38, 64-71	2.8	4
102	Cathode catalyst prepared from bacterial cellulose for ethanol fermentation stillage treatment in microbial fuel cell. *Chinese Journal of Chemical Engineering*, **2021**, 40, 256-261	3.2	2
101	A newly isolated strain, Lactobacillus paracasei subsp. paracasei 2, produces l-lactic acid from pilot-scale fermentation of food waste under sterile and nonsterile conditions. *Journal of Chemical Technology and Biotechnology*, **2020**, 95, 3193-3201	3.5	5
100	Estimation and prediction of the generation of waste organic solvents in China. *Journal of Material Cycles and Waste Management*, **2020**, 22, 1094-1102	3.4	3
99	Nitrogen and Phosphorus Doped Activated Carbon Catalyst Prepared from Shrimp Shell and its Application in MFC Air Cathode. *ChemistrySelect*, **2020**, 5, 2690-2695	1.8	3
98	Dechlorination of Municipal Solid Waste Incineration Fly Ash by Leaching with Fermentation Liquid of Food Waste. *Sustainability*, **2020**, 12, 4389	3.6	3
97	Analysis of Research Status of CO2 Conversion Technology Based on Bibliometrics. *Catalysts*, **2020**, 10, 370	4	11

96	Electricity Enhancement by MFCs from Food Waste Ethanol Fermentation Recycle Stillage Effect of Dilution Ratio and Addition of Tween 80. *ChemistrySelect*, **2020**, 5, 5701-5705	1.8	0
95	Effect of liquid digestate recirculation on the ethanol-type two-phase semi-continuous anaerobic digestion system of food waste. *Bioresource Technology*, **2020**, 313, 123534	11	7
94	Effect of ethanol pre-fermentation on organic load rate and stability of semi-continuous anaerobic digestion of food waste. *Bioresource Technology*, **2020**, 299, 122587	11	29
93	Methane production from food waste via mesophilic anaerobic digestion with ethanol pre-fermentation: Methanogenic pathway and microbial community analyses. *Bioresource Technology*, **2020**, 297, 122450	11	12
92	Carbon release behaviour of polylactic acid/starch-based solid carbon and its influence on biodenitrification. *Biochemical Engineering Journal*, **2020**, 155, 107468	4.2	5
91	Remediation of wastewater contaminated by antibiotics. A review. *Environmental Chemistry Letters*, **2020**, 18, 345-360	13.3	44
90	Effect of yeast addition on the biogas production performance of a food waste anaerobic digestion system. *Royal Society Open Science*, **2020**, 7, 200443	3.3	6
89	Comparative study on inorganic Cl removal of municipal solid waste fly ash using different types and concentrations of organic acids. *Chemosphere*, **2020**, 261, 127754	8.4	6
88	A Comparison of the Mechanism of TOC and COD Degradation in Rhodamine B Wastewater by a Recycling-Flow Two- and Three-dimensional Electro-Reactor System. *Water (Switzerland)*, **2020**, 12, 1853	3	1
87	Dechlorination of fly ash by hydrolysate of municipal solid waste leachate.. *RSC Advances*, **2020**, 10, 26397-26406	3.7	6
86	Ceramsite production from sediment in Beian River: characterization and parameter optimization. *Royal Society Open Science*, **2019**, 6, 190197	3.3	5
85	Lignocellulosic biomass for bioethanol: an overview on pretreatment, hydrolysis and fermentation processes. *Reviews on Environmental Health*, **2019**, 34, 57-68	3.8	57
84	Production of butanol from biomass: recent advances and future prospects. *Environmental Science and Pollution Research*, **2019**, 26, 20164-20182	5.1	30
83	An excellent alternative composite modifier for cathode catalysts prepared from bacterial cellulose doped with Cu and P and its utilization in microbial fuel cell. *Bioresource Technology*, **2019**, 289, 121661	11	17
82	Microbial lipid production from food waste saccharified liquid under two-stage process. *Bioresource Technology*, **2019**, 289, 121626	11	6
81	A novel variable pH control strategy for enhancing lipid production from food waste: Biodiesel versus docosahexaenoic acid. *Energy Conversion and Management*, **2019**, 189, 60-66	10.6	13
80	Volatile fatty acids production from saccharification residue from food waste ethanol fermentation: Effect of pH and microbial community. *Bioresource Technology*, **2019**, 292, 121957	11	39
79	Impact of nanoscale zerovalent iron on volatile fatty acid production from food waste: key enzymes and microbial community. *Journal of Chemical Technology and Biotechnology*, **2019**, 94, 3201-3207	3.5	8

78	Metabolic analysis of efficient methane production from food waste with ethanol pre-fermentation using carbon isotope labeling. *Bioresource Technology*, **2019**, 291, 121849	11	5
77	Synergistic effect from anaerobic co-digestion of food waste and Sophora flavescens residues at different co-substrate ratios. *Environmental Science and Pollution Research*, **2019**, 26, 37114-37124	5.1	9
76	The bibliometric analysis and review of dioxin in waste incineration and steel sintering. *Environmental Science and Pollution Research*, **2019**, 26, 35687-35703	5.1	5
75	Pilot-scale experiments on multilevel contact oxidation treatment of poultry farm wastewater using saran lock carriers under different operation model. *Journal of Environmental Sciences*, **2019**, 77, 336-345	6.4	6
74	Past, current, and future research on microalga-derived biodiesel: a critical review and bibliometric analysis. *Environmental Science and Pollution Research*, **2018**, 25, 10596-10610	5.1	33
73	Stimulation of methane yield rate from food waste by aerobic pre-treatment. *Bioresource Technology*, **2018**, 261, 279-287	11	9
72	Chloride Diffusion and Wicking in Concrete Exposed to NaCl and MgCl2 Solutions. *Journal of Materials in Civil Engineering*, **2018**, 30, 04018015	3	18
71	A bibliometric analysis of biodiesel research during 19912015. *Journal of Material Cycles and Waste Management*, **2018**, 20, 10-18	3.4	26
70	Ethanol prefermentation of food waste in sequencing batch methane fermentation for improved buffering capacity and microbial community analysis. *Bioresource Technology*, **2018**, 248, 187-193	11	31
69	A comprehensive review on food waste anaerobic digestion: Research updates and tendencies. *Bioresource Technology*, **2018**, 247, 1069-1076	11	277
68	Microbial lipid production from food waste saccharified liquid and the effects of compositions. *Energy Conversion and Management*, **2018**, 172, 306-315	10.6	20
67	Global trends and future prospects of food waste research: a bibliometric analysis. *Environmental Science and Pollution Research*, **2018**, 25, 24600-24610	5.1	37
66	Biodiesels from microbial oils: Opportunity and challenges. *Bioresource Technology*, **2018**, 263, 631-641	11	88
65	Research on stillage storage time for MFC performance and control methods. *Bioresource Technology Reports*, **2018**, 3, 162-168	4.1	4
64	Effects of digestate recirculation on a two-stage anaerobic digestion system, particularly focusing on metabolite correlation analysis. *Bioresource Technology*, **2018**, 251, 40-48	11	50
63	Effect of fermentation stillage of food waste on bioelectricity production and microbial community structure in microbial fuel cells. *Royal Society Open Science*, **2018**, 5, 180457	3.3	11
62	Kinetic modelling and synergistic impact evaluation for the anaerobic co-digestion of distillers' grains and food waste by ethanol pre-fermentation. *Environmental Science and Pollution Research*, **2018**, 25, 30281-30291	5.1	11
61	Concise review on ethanol production from food waste: development and sustainability. *Environmental Science and Pollution Research*, **2018**, 25, 28851-28863	5.1	33

60	Research trends in electrochemical technology for water and wastewater treatment. *Applied Water Science*, **2017**, 7, 13-30	5	26
59	Pyrolysis Behaviour and Kinetic of Coal Tar Pitch Modified with Paraformaldehyde. *Waste and Biomass Valorization*, **2017**, 8, 209-216	3.2	1
58	Lactic acid production from Sophora flavescens residues pretreated with sodium hydroxide: Reutilization of the pretreated liquor during fermentation. *Bioresource Technology*, **2017**, 241, 915-921	11	14
57	Pollution characteristics of polycyclic aromatic hydrocarbons in common used mineral oils and their transformation during oil regeneration. *Journal of Environmental Sciences*, **2017**, 56, 247-253	6.4	19
56	Enhancement of l-lactic acid production via synergism in open co-fermentation of Sophora flavescens residues and food waste. *Bioresource Technology*, **2017**, 225, 159-164	11	29
55	Alleviation of harmful effect in stillage reflux in food waste ethanol fermentation based on metabolic and side-product accumulation regulation. *Bioresource Technology*, **2016**, 218, 463-8	11	4
54	Pilot-scale open fermentation of food waste to produce lactic acid without inoculum addition. *RSC Advances*, **2016**, 6, 104354-104358	3.7	11
53	A bibliometric analysis of micro/nano-bubble related research: current trends, present application, and future prospects. *Scientometrics*, **2016**, 109, 53-71	3	29
52	Wastewater-nitrogen removal using polylactic acid/starch as carbon source: Optimization of operating parameters using response surface methodology. *Frontiers of Environmental Science and Engineering*, **2016**, 10, 1	5.8	9
51	Microwave regeneration of spent activated carbon for the treatment of ester-containing wastewater. *RSC Advances*, **2016**, 6, 60815-60825	3.7	5
50	Oxidative Capacity of Nanobubbles and Its Effect on Seed Germination. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 1347-1353	8.3	78
49	Effect of Ethanol and Lactic Acid Pre-fermentation on Putrefactive Bacteria Suppression, Hydrolysis, and Methanogenesis of Food Waste. *Energy & Fuels*, **2016**, 30, 2982-2989	4.1	22
48	Responses of ammonia-oxidizing bacteria community composition to temporal changes in physicochemical parameters during food waste composting. *RSC Advances*, **2016**, 6, 9541-9548	3.7	10
47	High acetone-butanol-ethanol production in pH-stat co-feeding of acetate and glucose. *Journal of Bioscience and Bioengineering*, **2016**, 122, 176-82	3.3	17
46	Stillage reflux in food waste ethanol fermentation and its by-product accumulation. *Bioresource Technology*, **2016**, 209, 254-8	11	19
45	Effect of crude glycerol impurities on lipid preparation by Rhodosporidium toruloides yeast 32489. *Bioresource Technology*, **2016**, 218, 373-9	11	61
44	Advanced treatment of wet-spun acrylic fiber manufacturing wastewater using three-dimensional electrochemical oxidation. *Journal of Environmental Sciences*, **2016**, 50, 21-31	6.4	25
43	Study on Influence Factors in Bacillus Thuringiensis Production by Semi-solid State Fermentation Using Food Waste. *Procedia Environmental Sciences*, **2016**, 31, 127-135		12

42	A comprehensive study on activated carbon prepared from spent shiitake substrate via pyrolysis with ZnCl2. *Journal of Porous Materials*, **2015**, 22, 157-169	2.4	24
41	Comparison of denitrification performances using PLA/starch with different mass ratios as carbon source. *Water Science and Technology*, **2015**, 71, 1019-25	2.2	16
40	Separation of Pollutants from Oil-Containing Restaurant Wastewater by Novel Microbubble Air Flotation and Traditional Dissolved Air Flotation. *Separation Science and Technology*, **2015**, 150707113117003	2.5	3
39	Effect of a New Kind of Liquid Fertilizer on Yield, Quality and Safety of Greenhouse Chinese Cabbage. *Agricultural Research*, **2015**, 4, 57-62	1.4	
38	A novel magnetic biochar from spent shiitake substrate: characterization and analysis of pyrolysis process. *Biomass Conversion and Biorefinery*, **2015**, 5, 339-346	2.3	6
37	Advanced treatment of acrylic fiber manufacturing wastewater with a combined microbubble-ozonation/ultraviolet irradiation process. *RSC Advances*, **2015**, 5, 77601-77609	3.7	15
36	Enhanced Productions and Recoveries of Ethanol and Methane from Food Waste by a Three-Stage Process. *Energy & Fuels*, **2015**, 29, 6494-6500	4.1	18
35	A bibliometric analysis of industrial wastewater research: current trends and future prospects. *Scientometrics*, **2015**, 105, 863-882	3	41
34	Effect of ethanol pre-fermentation and inoculum-to-substrate ratio on methane yield from food waste and distillers□grains. *Applied Energy*, **2015**, 155, 846-853	10.7	49
33	Metabolic analysis of butanol production from acetate in Clostridium saccharoperbutylacetonicum N1-4 using 13C tracer experiments. *RSC Advances*, **2015**, 5, 8486-8495	3.7	18
32	Recent advances to improve fermentative butanol production: genetic engineering and fermentation technology. *Journal of Bioscience and Bioengineering*, **2015**, 119, 1-9	3.3	135
31	Semi-solid state fermentation of food waste for production of Bacillus thuringiensis biopesticide. *Biotechnology and Bioprocess Engineering*, **2015**, 20, 1123-1132	3.1	17
30	Synergistic effect of mixed methanol/ethanol on transesterification of waste food oil using p-toluenesulfonic acid as catalyst. *Environmental Progress and Sustainable Energy*, **2015**, 34, 1547-1553	2.5	11
29	Treatment of real high-concentration dyeing wastewater using a coagulation-hydrolysis acidification-multilevel contact oxidation system. *Environmental Progress and Sustainable Energy*, **2015**, 34, 339-345	2.5	9
28	Research on the Recycling of Distillation Waste in Ethanol Fermentation from Food Waste and Its Influence. *International Journal of Green Energy*, **2015**, 12, 737-742	3	5
27	Biodiesel production using unrefined methanol as transesterification agent and the research of individual effect of impurities. *Energy*, **2015**, 82, 361-369	7.9	19
26	Microbubble enhanced ozonation process for advanced treatment of wastewater produced in acrylic fiber manufacturing industry. *Journal of Hazardous Materials*, **2015**, 287, 412-20	12.8	74
25	Pilot-scale experiments on brewery wastewater treatment and sludge reduction based on food chain predation. *Desalination and Water Treatment*, **2014**, 1-10		1

24	Feasibility of converting lactic acid to ethanol in food waste fermentation by immobilized lactate oxidase. *Applied Energy*, **2014**, 129, 89-93	10.7	25
23	Temporal Changes in Microbial Metabolic Characteristics in Field-Scale Biopiles Composed of Aged Oil Sludge. *Environmental Engineering Science*, **2014**, 31, 507-513	2	4
22	Adsorption performance of heavy metal ions between EAF steel slag and common mineral adsorbents. *Desalination and Water Treatment*, **2014**, 52, 7125-7132		4
21	Co-pyrolysis behaviour and kinetic of two typical solid wastes in China and characterisation of activated carbon prepared from pyrolytic char. *Waste Management and Research*, **2014**, 32, 1123-33	4	7
20	A bibliometric analysis of anaerobic digestion for methane research during the period 1994–2011. *Journal of Material Cycles and Waste Management*, **2013**, 15, 1-8	3.4	17
19	Energy and Environment: Challenges and Achievements in Rapid Urbanization. *Scientific World Journal, The*, **2013**, 2013, 1-2	2.2	1
18	Influence of mixing proportion on the solid-state anaerobic co-digestion of distiller's grains and food waste. *Biosystems Engineering*, **2012**, 112, 130-137	4.8	48
17	The effect of different types of micro-bubbles on the performance of the coagulation flotation process for coke waste-water. *Journal of Chemical Technology and Biotechnology*, **2012**, 87, 206-215	3.5	29
16	Scenarios simulation on municipal plastic waste generation of different functional areas of Beijing. *Journal of Material Cycles and Waste Management*, **2012**, 14, 250-258	3.4	6
15	Research on the Adoption of Lactic Acid Bacteria in Food Waste Storage and Ethanol Production. *International Journal of Green Energy*, **2012**, 9, 456-466	3	5
14	Release of Heavy Metals from Concrete Made with Cement from Cement Kiln Co-Processing of Hazardous Wastes in Pavement Scenarios. *Environmental Engineering Science*, **2011**, 28, 35-42	2	11
13	Biological Nitrogen Removal Using the Supernatant of Ozonized Sludge as Extra Carbon Source. *Ozone: Science and Engineering*, **2011**, 33, 410-416	2.4	4
12	Research on Biodiesel and Ethanol Production from Food Waste. *International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering*, **2010**,		4
11	Removal of heavy metals from municipal solid waste incineration (MSWI) fly ash by traditional and microwave acid extraction. *Journal of Chemical Technology and Biotechnology*, **2010**, 85, 1268-1277	3.5	16
10	Effects of water-washing pretreatment on bioleaching of heavy metals from municipal solid waste incinerator fly ash. *Journal of Hazardous Materials*, **2009**, 162, 812-8	12.8	57
9	Comparisons of One-Step and Two-Step Bioleaching for Heavy Metals Removed from Municipal Solid Waste Incineration Fly Ash. *Environmental Engineering Science*, **2008**, 25, 783-789	2	38
8	Sludge reduction during brewery wastewater treatment by hydrolyzation-food chain reactor system. *Frontiers of Environmental Science and Engineering in China*, **2008**, 2, 32-35		2
7	Pilot-scale study of biomass reduction in wastewater treatment. *Water Environment Research*, **2007**, 79, 521-7	2.8	6

6	Bioconversion of kitchen garbage to lactic acid by two wild strains of Lactobacillus species. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2005**, 40, 1951-62	2.3	30
5	Study on Advanced Treatment of Secondary Effluent Using Fixed-Bed Filled with Bone Char. *Water, Air, and Soil Pollution*, **2004**, 159, 313-324	2.6	4
4	Effect of pH Adjustment on Preservation of Kitchen Waste Used for Producing Lactic Acid. *Water, Air, and Soil Pollution*, **2003**, 144, 405-418	2.6	17
3	Effects of anaerobic/aerobic incubation and storage temperature on preservation and deodorization of kitchen garbage. *Bioresource Technology*, **2002**, 84, 213-20	11	54
2	Enhancement of dewaterability of thickened waste activated sludge by freezing and thawing treatment. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2001**, 36, 1361-71	2.3	25
1	Enhancement of Food Waste Thermophilic Anaerobic Digestion with Supplementing Spent Mushroom Substrate: Synergistic Effect and Stability. *Waste and Biomass Valorization*,1	3.2	0