

Jing-Feng Gao

List of Publications by Year in descending order

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73
papers

2,490
citations

186265

28
h-index

214800

47
g-index

80
all docs

80
docs citations

80
times ranked

2029
citing authors

#	ARTICLE	IF	CITATIONS
1	Biosorption of Acid Yellow 17 from aqueous solution by non-living aerobic granular sludge. <i>Journal of Hazardous Materials</i> , 2010, 174, 215-225.	12.4	139
2	The comparative study on the rapid decolorization of azo, anthraquinone and triphenylmethane dyes by zero-valent iron. <i>Chemical Engineering Journal</i> , 2012, 179, 8-18.	12.7	114
3	Responses of bacterial communities and resistance genes on microplastics to antibiotics and heavy metals in sewage environment. <i>Journal of Hazardous Materials</i> , 2021, 402, 123550.	12.4	100
4	Quantitative analyses of the composition and abundance of ammonia-oxidizing archaea and ammonia-oxidizing bacteria in eight full-scale biological wastewater treatment plants. <i>Bioresource Technology</i> , 2013, 138, 285-296.	9.6	96
5	Abundance and diversity based on amoA genes of ammonia-oxidizing archaea and bacteria in ten wastewater treatment systems. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 3339-3354.	3.6	95
6	Behavior of nitrogen, phosphorus and antibiotic resistance genes under polyvinyl chloride microplastics pressures in an aerobic granular sludge system. <i>Journal of Cleaner Production</i> , 2020, 256, 120402.	9.3	80
7	Functional genera, potential pathogens and predicted antibiotic resistance genes in 16 full-scale wastewater treatment plants treating different types of wastewater. <i>Bioresource Technology</i> , 2018, 268, 97-106.	9.6	77
8	More obvious air pollution impacts on variations in bacteria than fungi and their co-occurrences with ammonia-oxidizing microorganisms in PM2.5. <i>Environmental Pollution</i> , 2019, 251, 668-680.	7.5	73
9	Synergistic degradation of chloramphenicol by ultrasound-enhanced nanoscale zero-valent iron/persulfate treatment. <i>Separation and Purification Technology</i> , 2020, 240, 116575.	7.9	73
10	Ammonia-oxidizing bacteria dominate ammonia oxidation in a full-scale wastewater treatment plant revealed by DNA-based stable isotope probing. <i>Bioresource Technology</i> , 2018, 256, 152-159.	9.6	69
11	Temporal dynamics of bacterial communities and predicted nitrogen metabolism genes in a full-scale wastewater treatment plant. <i>RSC Advances</i> , 2017, 7, 56317-56327.	3.6	68
12	Synergistically boosting sulfamerazine degradation via activation of peroxydisulfate by photocatalysis of Bi2O3-TiO2/PAC under visible light irradiation. <i>Chemical Engineering Journal</i> , 2022, 428, 132613.	12.7	67
13	Plastisphere enrich antibiotic resistance genes and potential pathogenic bacteria in sewage with pharmaceuticals. <i>Science of the Total Environment</i> , 2021, 768, 144663.	8.0	66
14	Co-occurrence of microplastics and triclosan inhibited nitrification function and enriched antibiotic resistance genes in nitrifying sludge. <i>Journal of Hazardous Materials</i> , 2020, 399, 123049.	12.4	65
15	Effects of triclosan on performance, microbial community and antibiotic resistance genes during partial denitrification in a sequencing moving bed biofilm reactor. <i>Bioresource Technology</i> , 2019, 281, 326-334.	9.6	63
16	Contributions of functional groups and extracellular polymeric substances on the biosorption of dyes by aerobic granules. <i>Bioresource Technology</i> , 2011, 102, 805-813.	9.6	61
17	Competitive biosorption of Yellow 2G and Reactive Brilliant Red K-2G onto inactive aerobic granules: Simultaneous determination of two dyes by first-order derivative spectrophotometry and isotherm studies. <i>Bioresource Technology</i> , 2010, 101, 5793-5801.	9.6	60
18	The more important role of archaea than bacteria in nitrification of wastewater treatment plants in cold season despite their numerical relationships. <i>Water Research</i> , 2018, 145, 552-561.	11.3	59

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19	Microplastics affect the ammonia oxidation performance of aerobic granular sludge and enrich the intracellular and extracellular antibiotic resistance genes. <i>Journal of Hazardous Materials</i> , 2021, 409, 124981.	12.4	48
20	Diversity, abundance and activity of ammonia-oxidizing microorganisms in fine particulate matter. <i>Scientific Reports</i> , 2016, 6, 38785.	3.3	47
21	Airborne Bacterial Communities of PM2.5 in Beijing-Tianjin-Hebei Megalopolis, China as Revealed by Illumina MiSeq Sequencing: A Case Study. <i>Aerosol and Air Quality Research</i> , 2017, 17, 788-798.	2.1	45
22	Binary biosorption of Acid Red 14 and Reactive Red 15 onto acid treated okara: Simultaneous spectrophotometric determination of two dyes using partial least squares regression. <i>Chemical Engineering Journal</i> , 2011, 171, 967-975.	12.7	43
23	Long-term responses of antibiotic resistance genes under high concentration of enrofloxacin, sulfadiazine and triclosan in aerobic granular sludge system. <i>Bioresource Technology</i> , 2020, 312, 123567.	9.6	42
24	Shifts in bacterial community composition and abundance of nitrifiers during aerobic granulation in two nitrifying sequencing batch reactors. <i>Bioresource Technology</i> , 2018, 251, 99-107.	9.6	40
25	Inactivation of sulfonamide antibiotic resistant bacteria and control of intracellular antibiotic resistance transmission risk by sulfide-modified nanoscale zero-valent iron. <i>Journal of Hazardous Materials</i> , 2020, 400, 123226.	12.4	40
26	Simultaneous adsorption and degradation of triclosan by Ginkgo biloba L. stabilized Fe/Co bimetallic nanoparticles. <i>Science of the Total Environment</i> , 2019, 662, 978-989.	8.0	37
27	Emergence and spread patterns of antibiotic resistance genes during two different aerobic granular sludge cultivation processes. <i>Environment International</i> , 2020, 137, 105540.	10.0	37
28	Green synthesis of nanoscale zero-valent iron using a grape seed extract as a stabilizing agent and the application for quick decolorization of azo and anthraquinone dyes. <i>RSC Advances</i> , 2016, 6, 22526-22537.	3.6	32
29	Unravelling nitrogen removal and nitrous oxide emission from mainstream integrated nitrification-partial denitrification-anammox for low carbon/nitrogen domestic wastewater. <i>Journal of Environmental Management</i> , 2020, 270, 110872.	7.8	28
30	Responses of performance, antibiotic resistance genes and bacterial communities of partial nitrification system to polyamide microplastics. <i>Bioresource Technology</i> , 2021, 341, 125767.	9.6	28
31	Elimination of antibiotic resistance genes in waste activated sludge by persulfate treatment during the process of sludge dewatering. <i>Bioresource Technology</i> , 2020, 311, 123509.	9.6	27
32	The removal of antibiotic resistant bacteria and genes and inhibition of the horizontal gene transfer by contrastive research on sulfidated nanoscale zerovalent iron activating peroxymonosulfate or peroxydisulfate. <i>Journal of Hazardous Materials</i> , 2022, 423, 126866.	12.4	27
33	Temporal heterogeneity and temperature response of active ammonia-oxidizing microorganisms in winter in full-scale wastewater treatment plants. <i>Chemical Engineering Journal</i> , 2019, 360, 1542-1552.	12.7	26
34	Effects of persulfate treatment on antibiotic resistance genes abundance and the bacterial community in secondary effluent. <i>Chemical Engineering Journal</i> , 2020, 382, 121860.	12.7	26
35	Enhancement of antibiotic resistance dissemination by artificial sweetener acesulfame potassium: Insights from cell membrane, enzyme, energy supply and transcriptomics. <i>Journal of Hazardous Materials</i> , 2022, 422, 126942.	12.4	26
36	Responses of nitrification performance, triclosan resistome and diversity of microbes to continuous triclosan stress in activated sludge system. <i>Journal of Environmental Sciences</i> , 2020, 92, 211-223.	6.1	25

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37	Sulfidated nanoscale zero-valent iron is an efficient material for the removal and regrowth inhibition of antibiotic resistance genes. <i>Environmental Pollution</i> , 2020, 263, 114508.	7.5	24
38	Enhanced granulation process, a more effective way of aerobic granular sludge cultivation in pilot-scale application comparing to normal granulation process: From the perspective of microbial insights. <i>Science of the Total Environment</i> , 2020, 707, 136106.	8.0	23
39	DNA-based stable isotope probing identifies triclosan degraders in nitrification systems under different surfactants. <i>Bioresource Technology</i> , 2020, 302, 122815.	9.6	23
40	Polyvinyl chloride microplastics changed risks of antibiotic resistance genes propagation by enhancing the removal of triclosan in partial denitrification systems with different carbon source. <i>Chemical Engineering Journal</i> , 2022, 429, 132465.	12.7	20
41	Fates of quaternary ammonium compound resistance genes and the corresponding resistant strain in partial nitrification/anammox system under pressure of hexadecyl trimethyl ammonium chloride. <i>Water Research</i> , 2022, 217, 118395.	11.3	20
42	Chloroxylenol at environmental concentrations can promote conjugative transfer of antibiotic resistance genes by multiple mechanisms. <i>Science of the Total Environment</i> , 2022, 816, 151599.	8.0	19
43	Metagenomics combined with DNA-based stable isotope probing provide comprehensive insights of active triclosan-degrading bacteria in wastewater treatment. <i>Journal of Hazardous Materials</i> , 2021, 404, 124192.	12.4	18
44	Photocatalysis-enhanced coagulation for removal of intracellular organic matter from <i>Microcystis aeruginosa</i> : Efficiency and mechanism. <i>Separation and Purification Technology</i> , 2022, 283, 120192.	7.9	18
45	The key active degrader, metabolic pathway and microbial ecology of triclosan biodegradation in an anoxic/oxic system. <i>Bioresource Technology</i> , 2020, 317, 124014.	9.6	17
46	Rapid start-up of partial nitrification process using benzethonium chloride—a novel nitrite oxidation inhibitor. <i>Bioresource Technology</i> , 2020, 315, 123860.	9.6	16
47	Metagenomics insights into the selective inhibition of NOB and comammox by phenacetin: Transcriptional activity, nitrogen metabolism and mechanistic understanding. <i>Science of the Total Environment</i> , 2022, 803, 150068.	8.0	16
48	Triclocarban shifted the microbial communities and promoted the spread of antibiotic resistance genes in nitrifying granular sludge system. <i>Bioresource Technology</i> , 2022, 347, 126429.	9.6	15
49	The fate and behavior mechanism of antibiotic resistance genes and microbial communities in flocs, aerobic granular and biofilm sludge under chloroxylenol pressure. <i>Journal of Hazardous Materials</i> , 2022, 438, 129465.	12.4	15
50	Insight into the short-term effect of titanium dioxide nanoparticles on active ammonia oxidizing microorganisms in a full-scale wastewater treatment plant: a DNA-stable isotope probing study. <i>RSC Advances</i> , 2016, 6, 73421-73431.	3.6	14
51	Synergistic effect of sulfidated nanoscale zerovalent iron in donor and recipient bacterial inactivation and gene conjugative transfer inhibition. <i>Journal of Hazardous Materials</i> , 2022, 432, 128722.	12.4	14
52	Distinct bacterial communities and resistance genes enriched by triclocarban-contaminated polyethylene microplastics in antibiotics and heavy metals polluted sewage environment. <i>Science of the Total Environment</i> , 2022, 839, 156330.	8.0	14
53	Achieving stable and long-term partial nitrification of domestic wastewater by side-stream sludge treatment using a novel nitrite oxidation inhibitor chloroxylenol. <i>Bioresource Technology</i> , 2021, 342, 125999.	9.6	13
54	Robustness of the partial nitrification-anammox system exposing to triclosan wastewater: Stress relieved by extracellular polymeric substances and resistance genes. <i>Environmental Research</i> , 2022, 206, 112606.	7.5	13

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55	Application of soybean residue (okara) as a low-cost adsorbent for reactive dye removal from aqueous solution. <i>Desalination and Water Treatment</i> , 2015, 53, 2266-2277.	1.0	12
56	Higher spreading risk of antibacterial biocide and heavy metal resistance genes than antibiotic resistance genes in aerobic granular sludge. <i>Environmental Research</i> , 2022, 212, 113356.	7.5	12
57	Changes of abundance and diversity of ammonia-oxidizing archaea (AOA) and bacteria (AOB) in three nitrifying bioreactors with different ammonia concentrations. <i>Desalination and Water Treatment</i> , 2016, 57, 21463-21475.	1.0	11
58	Degradation of sodium dodecyl benzenesulfonate by vacuum ultraviolet irradiation. <i>Journal of Water Process Engineering</i> , 2020, 34, 101172.	5.6	11
59	A transcriptomic analysis of malignant transformation of human embryonic esophageal epithelial cells by HPV18 E6E7. <i>Translational Cancer Research</i> , 2020, 9, 1818-1832.	1.0	10
60	DNA-based stable isotope probing deciphered the active denitrifying bacteria and triclosan-degrading bacteria participating in granule-based partial denitrification process under triclosan pressure. <i>Water Research</i> , 2022, 210, 118011.	11.3	10
61	The dominance of non-halophilic archaea in autotrophic ammonia oxidation of activated sludge under salt stress: A DNA-based stable isotope probing study. <i>Bioresource Technology</i> , 2019, 291, 121914.	9.6	9
62	Feeding low-level benzethonium chloride can promote the start-up, fast recovery and long-term stable maintenance of partial nitrification for low-ammonium wastewater. <i>Bioresource Technology</i> , 2022, 353, 127152.	9.6	9
63	Pressure of high level acetaminophen on fixed biofilm and aerobic granule-based systems: Insights on nitrification performances, microbial responses and acetaminophen's bio-degradation pathways. <i>Chemical Engineering Journal</i> , 2021, 426, 131907.	12.7	8
64	Family Sphingomonadaceae as the key executor of triclosan degradation in both nitrification and denitrification systems. <i>Chemical Engineering Journal</i> , 2022, 442, 136202.	12.7	8
65	Gene expression in human umbilical vein endothelial cells exposed to fine particulate matter: RNA sequencing analysis. <i>International Journal of Environmental Health Research</i> , 2022, 32, 2052-2064.	2.7	5
66	Unravelling the roles of Ginkgo biloba L. for modification of nanoscale zero valent iron in persulfate system to remove antibiotic resistance genes by the tool of metabonomic analysis. <i>Chemical Engineering Journal</i> , 2021, 417, 128038.	12.7	4
67	Utilization of agricultural waste chestnut shell for the removal of Reactive Brilliant Red K-2G from aqueous solution. <i>Desalination and Water Treatment</i> , 2011, 36, 141-151.	1.0	3
68	Role of functional groups on protonated de-oiled soybean involved in triclosan biosorption from aqueous solution. <i>RSC Advances</i> , 2016, 6, 67319-67330.	3.6	3
69	Enhanced removal of antibiotic resistance genes by nanoscale iron-cobalt particles modified with Ginkgo biloba L. leaf: Combining Illumina MiSeq sequencing and oligotyping analysis. <i>Bioresource Technology</i> , 2021, 321, 124453.	9.6	3
70	Fates of intracellular and extracellular antibiotic resistance genes during a pilot-scale aerobic granular sludge cultivation process. <i>Chemical Engineering Journal</i> , 2021, 421, 127737.	12.7	3
71	Triclosan enriched resistance genes more easily than copper in the presence of environmental tetracycline in aerobic granular sludge system. <i>Science of the Total Environment</i> , 2022, 815, 152871.	8.0	3
72	Discrepant responses of polyvinyl chloride microplastics biofilms and activated sludge under sulfadiazine stress in an anaerobic/anoxic/oxic system. <i>Chemical Engineering Journal</i> , 2022, 446, 137055.	12.7	3

#	ARTICLE	IF	CITATIONS
73	Application of GelGreen [®] in Cesium Chloride Density Gradients for DNA-Stable Isotope Probing Experiments. PLoS ONE, 2017, 12, e0169554.	2.5	1