

Yinguang Chen

List of Publications by Year in descending order

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189
papers

13,973
citations

¹⁷⁷⁷⁶
65
h-index

²⁵⁹⁸³
112
g-index

189
all docs

189
docs citations

189
times ranked

9958
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrolysis and acidification of waste activated sludge at different pHs. <i>Water Research</i> , 2007, 41, 683-689.	5.3	598
2	Enhancement of methane production in anaerobic digestion process: A review. <i>Applied Energy</i> , 2019, 240, 120-137.	5.1	567
3	Improved Bioproduction of Short-Chain Fatty Acids (SCFAs) from Excess Sludge under Alkaline Conditions. <i>Environmental Science & Technology</i> , 2006, 40, 2025-2029.	4.6	496
4	Enhancement of Waste Activated Sludge Protein Conversion and Volatile Fatty Acids Accumulation during Waste Activated Sludge Anaerobic Fermentation by Carbohydrate Substrate Addition: The Effect of pH. <i>Environmental Science & Technology</i> , 2009, 43, 4373-4380.	4.6	391
5	Effects of ZnO Nanoparticles on Wastewater Biological Nitrogen and Phosphorus Removal. <i>Environmental Science & Technology</i> , 2011, 45, 2826-2832.	4.6	356
6	Nitrogen-doped carbon nanotubes as efficient and durable metal-free cathodic catalysts for oxygen reduction in microbial fuel cells. <i>Energy and Environmental Science</i> , 2011, 4, 1892.	15.6	343
7	Effect of acid and surfactant treatment on activated sludge dewatering and settling. <i>Water Research</i> , 2001, 35, 2615-2620.	5.3	271
8	Long-term effect of ZnO nanoparticles on waste activated sludge anaerobic digestion. <i>Water Research</i> , 2011, 45, 5612-5620.	5.3	260
9	Waste activated sludge hydrolysis and short-chain fatty acids accumulation under mesophilic and thermophilic conditions: Effect of pH. <i>Water Research</i> , 2009, 43, 3735-3742.	5.3	238
10	Effects of metal oxide nanoparticles (TiO ₂ , Al ₂ O ₃ , SiO ₂ and ZnO) on waste activated sludge anaerobic digestion. <i>Bioresource Technology</i> , 2011, 102, 10305-10311.	4.8	229
11	Dilemma of Sewage Sludge Treatment and Disposal in China. <i>Environmental Science & Technology</i> , 2015, 49, 4781-4782.	4.6	226
12	The efficiency of enhanced biological phosphorus removal from real wastewater affected by different ratios of acetic to propionic acid. <i>Water Research</i> , 2004, 38, 27-36.	5.3	208
13	Long-Term Effects of Titanium Dioxide Nanoparticles on Nitrogen and Phosphorus Removal from Wastewater and Bacterial Community Shift in Activated Sludge. <i>Environmental Science & Technology</i> , 2011, 45, 7284-7290.	4.6	205
14	Easy-to-Operate and Low-Temperature Synthesis of Gram-Scale Nitrogen-Doped Graphene and Its Application as Cathode Catalyst in Microbial Fuel Cells. <i>ACS Nano</i> , 2011, 5, 9611-9618.	7.3	205
15	New Sludge Pretreatment Method to Improve Methane Production in Waste Activated Sludge Digestion. <i>Environmental Science & Technology</i> , 2010, 44, 4802-4808.	4.6	203
16	Enhanced production of short-chain fatty acid by co-fermentation of waste activated sludge and kitchen waste under alkaline conditions and its application to microbial fuel cells. <i>Applied Energy</i> , 2013, 102, 1197-1204.	5.1	201
17	Pyrosequencing Reveals the Key Microorganisms Involved in Sludge Alkaline Fermentation for Efficient Short-Chain Fatty Acids Production. <i>Environmental Science & Technology</i> , 2013, 47, 4262-4268.	4.6	199
18	Pilot-Scale Waste Activated Sludge Alkaline Fermentation, Fermentation Liquid Separation, and Application of Fermentation Liquid To Improve Biological Nutrient Removal. <i>Environmental Science & Technology</i> , 2011, 45, 1834-1839.	4.6	194

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19	Response of Anaerobic Granular Sludge to a Shock Load of Zinc Oxide Nanoparticles during Biological Wastewater Treatment. <i>Environmental Science & Technology</i> , 2012, 46, 5997-6003.	4.6	188
20	Effect of CO ₂ on Microbial Denitrification via Inhibiting Electron Transport and Consumption. <i>Environmental Science & Technology</i> , 2016, 50, 9915-9922.	4.6	186
21	Enhanced Biological Phosphorus Removal Driven by Short-Chain Fatty Acids Produced from Waste Activated Sludge Alkaline Fermentation. <i>Environmental Science & Technology</i> , 2007, 41, 7126-7130.	4.6	179
22	Polycyclic aromatic hydrocarbons contamination in surface soil of China: A review. <i>Science of the Total Environment</i> , 2017, 605-606, 1011-1020.	3.9	174
23	Effect of Humic Acids with Different Characteristics on Fermentative Short-Chain Fatty Acids Production from Waste Activated Sludge. <i>Environmental Science & Technology</i> , 2015, 49, 4929-4936.	4.6	159
24	Zinc Oxide Nanoparticles Cause Inhibition of Microbial Denitrification by Affecting Transcriptional Regulation and Enzyme Activity. <i>Environmental Science & Technology</i> , 2014, 48, 13800-13807.	4.6	148
25	Simultaneous enhancement of methane production and methane content in biogas from waste activated sludge and perennial ryegrass anaerobic co-digestion: The effects of pH and C/N ratio. <i>Bioresource Technology</i> , 2016, 216, 323-330.	4.8	145
26	Polycyclic Aromatic Hydrocarbon Affects Acetic Acid Production during Anaerobic Fermentation of Waste Activated Sludge by Altering Activity and Viability of Acetogen. <i>Environmental Science & Technology</i> , 2016, 50, 6921-6929.	4.6	145
27	Efficient Polyhydroxyalkanoates Production from a Waste-Activated Sludge Alkaline Fermentation Liquid by Activated Sludge Submitted to the Aerobic Feeding and Discharge Process. <i>Environmental Science & Technology</i> , 2009, 43, 7734-7741.	4.6	143
28	Long-Term Effects of Copper Nanoparticles on Wastewater Biological Nutrient Removal and N ₂ O Generation in the Activated Sludge Process. <i>Environmental Science & Technology</i> , 2012, 46, 12452-12458.	4.6	143
29	Biological short-chain fatty acids (SCFAs) production from waste-activated sludge affected by surfactant. <i>Water Research</i> , 2007, 41, 3112-3120.	5.3	140
30	Waste Activated Sludge Fermentation for Hydrogen Production Enhanced by Anaerobic Process Improvement and Acetobacteria Inhibition: The Role of Fermentation pH. <i>Environmental Science & Technology</i> , 2010, 44, 3317-3323.	4.6	137
31	Reduction of N ₂ O and NO Generation in Anaerobic~Aerobic (Low Dissolved Oxygen) Biological Wastewater Treatment Process by Using Sludge Alkaline Fermentation Liquid. <i>Environmental Science & Technology</i> , 2011, 45, 2137-2143.	4.6	131
32	How Does Poly(hydroxyalkanoate) Affect Methane Production from the Anaerobic Digestion of Waste-Activated Sludge?. <i>Environmental Science & Technology</i> , 2015, 49, 12253-12262.	4.6	125
33	Recent advances in partial denitrification in biological nitrogen removal: From enrichment to application. <i>Bioresource Technology</i> , 2020, 298, 122444.	4.8	125
34	Alkyl polyglucose enhancing propionic acid enriched short-chain fatty acids production during anaerobic treatment of waste activated sludge and mechanisms. <i>Water Research</i> , 2015, 73, 332-341.	5.3	123
35	Recovery of nitrogen and phosphorus from alkaline fermentation liquid of waste activated sludge and application of the fermentation liquid to promote biological municipal wastewater treatment. <i>Water Research</i> , 2009, 43, 2969-2976.	5.3	122
36	The effects of fulvic acid on microbial denitrification: promotion of NADH generation, electron transfer, and consumption. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 5607-5618.	1.7	120

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37	Efficient production of optically pure L-lactic acid from food waste at ambient temperature by regulating key enzyme activity. <i>Water Research</i> , 2015, 70, 148-157.	5.3	116
38	Using Sludge Fermentation Liquid To Improve Wastewater Short-Cut Nitrification-Denitrification and Denitrifying Phosphorus Removal via Nitrite. <i>Environmental Science & Technology</i> , 2010, 44, 8957-8963.	4.6	113
39	Effect of sodium dodecyl sulfate on waste activated sludge hydrolysis and acidification. <i>Chemical Engineering Journal</i> , 2007, 132, 311-317.	6.6	110
40	Distribution of tetracycline resistance genes in anaerobic treatment of waste sludge: The role of pH in regulating tetracycline resistant bacteria and horizontal gene transfer. <i>Bioresource Technology</i> , 2016, 218, 1284-1289.	4.8	110
41	Effects of Metal Nanoparticles on Methane Production from Waste-Activated Sludge and Microorganism Community Shift in Anaerobic Granular Sludge. <i>Scientific Reports</i> , 2016, 6, 25857.	1.6	109
42	Towards a metagenomic understanding on enhanced biomethane production from waste activated sludge after pH 10 pretreatment. <i>Biotechnology for Biofuels</i> , 2013, 6, 38.	6.2	108
43	Generation and characterization of DOM in wastewater treatment processes. <i>Chemosphere</i> , 2018, 201, 96-109.	4.2	107
44	Simultaneous Nitrogen and Phosphorus Recovery from Sludge-Fermentation Liquid Mixture and Application of the Fermentation Liquid To Enhance Municipal Wastewater Biological Nutrient Removal. <i>Environmental Science & Technology</i> , 2009, 43, 6164-6170.	4.6	100
45	Enhancement of visible-light-driven photocatalytic activity of carbon plane/g-C ₃ N ₄ /TiO ₂ nanocomposite by improving heterojunction contact. <i>Chemical Engineering Journal</i> , 2019, 371, 706-718.	6.6	100
46	Understanding Short-Chain Fatty Acids Accumulation Enhanced in Waste Activated Sludge Alkaline Fermentation: Kinetics and Microbiology. <i>Environmental Science & Technology</i> , 2010, 44, 9343-9348.	4.6	99
47	Enhancement of denitrification performance with reduction of nitrite accumulation and N ₂ O emission by <i>Shewanella oneidensis</i> MR-1 in microbial denitrifying process. <i>Water Research</i> , 2020, 169, 115242.	5.3	98
48	Effect of solids retention time and temperature on waste activated sludge hydrolysis and short-chain fatty acids accumulation under alkaline conditions in continuous-flow reactors. <i>Bioresource Technology</i> , 2009, 100, 44-49.	4.8	97
49	Critical review of the influences of nanoparticles on biological wastewater treatment and sludge digestion. <i>Critical Reviews in Biotechnology</i> , 2016, 36, 816-828.	5.1	97
50	Alteration of intracellular protein expressions as a key mechanism of the deterioration of bacterial denitrification caused by copper oxide nanoparticles. <i>Scientific Reports</i> , 2015, 5, 15824.	1.6	94
51	Stimulating short-chain fatty acids production from waste activated sludge by nano zero-valent iron. <i>Journal of Biotechnology</i> , 2014, 187, 98-105.	1.9	92
52	Effects of emerging pollutants on the occurrence and transfer of antibiotic resistance genes: A review. <i>Journal of Hazardous Materials</i> , 2021, 420, 126602.	6.5	92
53	Short-Chain Fatty Acid Production from Different Biological Phosphorus Removal Sludges: The Influences of PHA and Gram-Staining Bacteria. <i>Environmental Science & Technology</i> , 2013, 47, 2688-2695.	4.6	89
54	Alumina nanoparticles-induced effects on wastewater nitrogen and phosphorus removal after short-term and long-term exposure. <i>Water Research</i> , 2012, 46, 4379-4386.	5.3	88

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55	Effect of polyhydroxyalkanoates on dark fermentative hydrogen production from waste activated sludge. <i>Water Research</i> , 2015, 73, 311-322.	5.3	88
56	Preliminary studies on continuous chromium(VI) biological removal from wastewater by anaerobic-aerobic activated sludge process. <i>Bioresource Technology</i> , 2005, 96, 1713-1721.	4.8	85
57	Nano-TiO ₂ Enhanced Photofermentative Hydrogen Produced from the Dark Fermentation Liquid of Waste Activated Sludge. <i>Environmental Science & Technology</i> , 2011, 45, 8589-8595.	4.6	85
58	The impacts of silver nanoparticles and silver ions on wastewater biological phosphorous removal and the mechanisms. <i>Journal of Hazardous Materials</i> , 2012, 239-240, 88-94.	6.5	81
59	Boron-, sulfur-, and phosphorus-doped graphene for environmental applications. <i>Science of the Total Environment</i> , 2020, 698, 134239.	3.9	79
60	Improved production of short-chain fatty acids from waste activated sludge driven by carbohydrate addition in continuous-flow reactors: Influence of SRT and temperature. <i>Applied Energy</i> , 2014, 113, 51-58.	5.1	78
61	Enhancement of propionic acid fraction in volatile fatty acids produced from sludge fermentation by the use of food waste and <i>Propionibacterium acidipropionici</i> . <i>Water Research</i> , 2013, 47, 615-622.	5.3	74
62	Increasing municipal wastewater BNR by using the preferred carbon source derived from kitchen wastewater to enhance phosphorus uptake and short-cut nitrification-denitrification. <i>Chemical Engineering Journal</i> , 2018, 344, 556-564.	6.6	74
63	Hydroxyl functionalization of single-walled carbon nanotubes causes inhibition to the bacterial denitrification process. <i>Chemical Engineering Journal</i> , 2015, 279, 47-55.	6.6	72
64	Tetrabromobisphenol A (TBBPA) inhibits denitrification via regulating carbon metabolism to decrease electron donation and bacterial population. <i>Water Research</i> , 2019, 162, 190-199.	5.3	70
65	Bio-denitrification performance enhanced by graphene-facilitated iron acquisition. <i>Water Research</i> , 2020, 180, 115916.	5.3	70
66	CuO and ZnO nanoparticles drive the propagation of antibiotic resistance genes during sludge anaerobic digestion: possible role of stimulated signal transduction. <i>Environmental Science: Nano</i> , 2019, 6, 528-539.	2.2	69
67	Effects of elevated carbon dioxide on environmental microbes and its mechanisms: A review. <i>Science of the Total Environment</i> , 2019, 655, 865-879.	3.9	69
68	Acute and Chronic Responses of Activated Sludge Viability and Performance to Silica Nanoparticles. <i>Environmental Science & Technology</i> , 2012, 46, 7182-7188.	4.6	66
69	New method for algae comprehensive utilization: Algae-derived biochar enhances algae anaerobic fermentation for short-chain fatty acids production. <i>Bioresource Technology</i> , 2019, 289, 121637.	4.8	66
70	Alkaline fermentation of waste sludge causes a significant reduction of antibiotic resistance genes in anaerobic reactors. <i>Science of the Total Environment</i> , 2017, 580, 380-387.	3.9	65
71	Metagenomic analysis reveals nonylphenol-shaped acidification and methanogenesis during sludge anaerobic digestion. <i>Water Research</i> , 2021, 196, 117004.	5.3	64
72	Efficient municipal wastewater treatment by oxidation ditch process at low temperature: Bacterial community structure in activated sludge. <i>Science of the Total Environment</i> , 2020, 703, 135031.	3.9	62

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73	Continuous bioproduction of short-chain fatty acids from sludge enhanced by the combined use of surfactant and alkaline pH. <i>Bioresource Technology</i> , 2013, 140, 97-102.	4.8	61
74	CO ₂ promotes the conjugative transfer of multiresistance genes by facilitating cellular contact and plasmid transfer. <i>Environment International</i> , 2019, 129, 333-342.	4.8	60
75	A New Process for Efficiently Producing Methane from Waste Activated Sludge: Alkaline Pretreatment of Sludge Followed by Treatment of Fermentation Liquid in an EGSB Reactor. <i>Environmental Science & Technology</i> , 2011, 45, 803-808.	4.6	59
76	Comprehensive analysis of transcriptional and proteomic profiling reveals silver nanoparticles-induced toxicity to bacterial denitrification. <i>Journal of Hazardous Materials</i> , 2018, 344, 291-298.	6.5	58
77	Biochar Mitigates N ₂ O Emission of Microbial Denitrification through Modulating Carbon Metabolism and Allocation of Reducing Power. <i>Environmental Science & Technology</i> , 2021, 55, 8068-8078.	4.6	58
78	A new method for the simultaneous enhancement of methane yield and reduction of hydrogen sulfide production in the anaerobic digestion of waste activated sludge. <i>Bioresource Technology</i> , 2017, 243, 914-921.	4.8	55
79	Enhanced Methane Production from Food Waste Using Cysteine To Increase Biotransformation of α -Monosaccharide, Volatile Fatty Acids, and Biohydrogen. <i>Environmental Science & Technology</i> , 2018, 52, 3777-3785.	4.6	53
80	The fate and enhanced removal of polycyclic aromatic hydrocarbons in wastewater and sludge treatment system: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2019, 49, 1425-1475.	6.6	53
81	New method for enhancement of bioenergy production from municipal organic wastes via regulation of anaerobic fermentation process. <i>Applied Energy</i> , 2017, 196, 190-198.	5.1	51
82	Advances in heavy metal removal by sulfate-reducing bacteria. <i>Water Science and Technology</i> , 2020, 81, 1797-1827.	1.2	49
83	Lactic acid accumulation from sludge and food waste to improve the yield of propionic acid-enriched VFA. <i>Biochemical Engineering Journal</i> , 2014, 84, 28-35.	1.8	48
84	Low-level free nitrous acid efficiently inhibits the conjugative transfer of antibiotic resistance by altering intracellular ions and disabling transfer apparatus. <i>Water Research</i> , 2019, 158, 383-391.	5.3	48
85	Waste Activated Sludge Alkaline Fermentation Liquid as Carbon Source for Biological Nutrients Removal in Anaerobic Followed by Alternating Aerobic-Anoxic Sequencing Batch Reactors. <i>Chinese Journal of Chemical Engineering</i> , 2010, 18, 478-485.	1.7	47
86	Integrated Metagenomic and Metaproteomic Analyses Unravel Ammonia Toxicity to Active Methanogens and Syntrophs, Enzyme Synthesis, and Key Enzymes in Anaerobic Digestion. <i>Environmental Science & Technology</i> , 2021, 55, 14817-14827.	4.6	47
87	Waste-Activated Sludge Fermentation for Polyacrylamide Biodegradation Improved by Anaerobic Hydrolysis and Key Microorganisms Involved in Biological Polyacrylamide Removal. <i>Scientific Reports</i> , 2015, 5, 11675.	1.6	46
88	Removal of intl1 and associated antibiotics resistant genes in water, sewage sludge and livestock manure treatments. <i>Reviews in Environmental Science and Biotechnology</i> , 2018, 17, 471-500.	3.9	46
89	Pig manure-derived nitrogen-doped mesoporous carbon for adsorption and catalytic oxidation of tetracycline. <i>Science of the Total Environment</i> , 2020, 708, 135071.	3.9	46
90	Comparative Metagenomic and Metatranscriptomic Analyses Reveal the Functional Species and Metabolic Characteristics of an Enriched Denitrification Community. <i>Environmental Science & Technology</i> , 2020, 54, 14312-14321.	4.6	46

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91	The Role of Nanomaterials and Nanotechnologies in Wastewater Treatment: a Bibliometric Analysis. <i>Nanoscale Research Letters</i> , 2018, 13, 233.	3.1	45
92	Anaerobic metabolic models for phosphorus- and glycogen-accumulating organisms with mixed acetic and propionic acids as carbon sources. <i>Water Research</i> , 2008, 42, 3745-3756.	5.3	42
93	Enhanced phosphorus biological removal from wastewater—effect of microorganism acclimatization with different ratios of short-chain fatty acids mixture. <i>Biochemical Engineering Journal</i> , 2005, 27, 24-32.	1.8	41
94	How does the entering of copper nanoparticles into biological wastewater treatment system affect sludge treatment for VFA production. <i>Water Research</i> , 2014, 63, 125-134.	5.3	40
95	Effect of CO ₂ on NADH production of denitrifying microbes via inhibiting carbon source transport and its metabolism. <i>Science of the Total Environment</i> , 2018, 627, 896-904.	3.9	40
96	Improved production of propionic acid driven by hydrolyzed liquid containing high concentration of l-lactic acid from co-fermentation of food waste and sludge. <i>Bioresource Technology</i> , 2016, 220, 523-529.	4.8	39
97	Influence of Copper Nanoparticles on the Physical-Chemical Properties of Activated Sludge. <i>PLoS ONE</i> , 2014, 9, e92871.	1.1	38
98	Biological nutrient removal with low nitrous oxide generation by cancelling the anaerobic phase and extending the idle phase in a sequencing batch reactor. <i>Chemosphere</i> , 2014, 109, 56-63.	4.2	38
99	Enhanced Bio-hydrogen Production from Protein Wastewater by Altering Protein Structure and Amino Acids Acidification Type. <i>Scientific Reports</i> , 2014, 4, 3992.	1.6	38
100	Carboxyl-modified single-walled carbon nanotubes negatively affect bacterial growth and denitrification activity. <i>Scientific Reports</i> , 2014, 4, 5653.	1.6	38
101	A review: factors affecting excess sludge anaerobic digestion for volatile fatty acids production. <i>Water Science and Technology</i> , 2015, 72, 678-688.	1.2	38
102	Enhancement of hydrogen production during waste activated sludge anaerobic fermentation by carbohydrate substrate addition and pH control. <i>Bioresource Technology</i> , 2012, 114, 349-356.	4.8	37
103	Effect of fulvic acids with different characteristics on biological denitrification. <i>RSC Advances</i> , 2016, 6, 14993-15001.	1.7	36
104	Minimizing nitrous oxide in biological nutrient removal from municipal wastewater by controlling copper ion concentrations. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 1325-1334.	1.7	35
105	Altering protein conformation to improve fermentative hydrogen production from protein wastewater. <i>Water Research</i> , 2013, 47, 5700-5707.	5.3	35
106	Tetracycline-induced effects on the nitrogen transformations in sediments: Roles of adsorption behavior and bacterial activity. <i>Science of the Total Environment</i> , 2019, 695, 133811.	3.9	35
107	Inherent humic substance promotes microbial denitrification of landfill leachate via shifting bacterial community, improving enzyme activity and up-regulating gene. <i>Scientific Reports</i> , 2017, 7, 12215.	1.6	33
108	Long-term performance of enhanced biological phosphorus removal with increasing concentrations of silver nanoparticles and ions. <i>RSC Advances</i> , 2013, 3, 9835.	1.7	31

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109	Kinetic analysis of waste activated sludge hydrolysis and short-chain fatty acids production at pH 10. <i>Journal of Environmental Sciences</i> , 2009, 21, 589-594.	3.2	30
110	More than sulfidation: Roles of biogenic sulfide in attenuating the impacts of CuO nanoparticle on antibiotic resistance genes during sludge anaerobic digestion. <i>Water Research</i> , 2019, 158, 1-10.	5.3	28
111	Current research and perspective of microplastics (MPs) in soils (dusts), rivers (lakes), and marine environments in China. <i>Ecotoxicology and Environmental Safety</i> , 2020, 202, 110976.	2.9	28
112	Occurrence, effects, and biodegradation of plastic additives in sludge anaerobic digestion: A review. <i>Environmental Pollution</i> , 2021, 287, 117568.	3.7	28
113	Using sludge fermentation liquid to reduce the inhibitory effect of copper oxide nanoparticles on municipal wastewater biological nutrient removal. <i>Water Research</i> , 2016, 99, 216-224.	5.3	27
114	Anaerobic fermentation metabolism of <i>Moorella thermoacetica</i> inhibited by copper nanoparticles: Comprehensive analyses of transcriptional response and enzyme activity. <i>Water Research</i> , 2021, 197, 117081.	5.3	27
115	Global transcriptional responses of denitrifying bacteria to functionalized single-walled carbon nanotubes revealed by weighted gene-coexpression network analysis. <i>Science of the Total Environment</i> , 2018, 613-614, 1240-1249.	3.9	26
116	Boosting exciton dissociation and molecular oxygen activation by in-plane grafting nitrogen-doped carbon nanosheets to graphitic carbon nitride for enhanced photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2019, 553, 59-70.	5.0	26
117	Co-fermentation of waste activated sludge with food waste for short-chain fatty acids production: effect of pH at ambient temperature. <i>Frontiers of Environmental Science and Engineering in China</i> , 2011, 5, 623-632.	0.8	25
118	The effects of carbon nanotubes on nitrogen and phosphorus removal from real wastewater in the activated sludge system. <i>RSC Advances</i> , 2014, 4, 45953-45959.	1.7	25
119	Coenzyme cobalamin: biosynthesis, overproduction and its application in dehalogenation—a review. <i>Reviews in Environmental Science and Biotechnology</i> , 2018, 17, 259-284.	3.9	25
120	Pyridinic and pyrrolic nitrogen-rich ordered mesoporous carbon for efficient oxygen reduction in microbial fuel cells. <i>RSC Advances</i> , 2017, 7, 14669-14677.	1.7	24
121	Recent advances in biological removal of nitroaromatics from wastewater. <i>Environmental Pollution</i> , 2022, 307, 119570.	3.7	24
122	Immobilizing photogenerated electrons from graphitic carbon nitride for an improved visible-light photocatalytic activity. <i>Scientific Reports</i> , 2016, 6, 22808.	1.6	23
123	Volatile fatty acids production from waste activated sludge during anaerobic fermentation: The effect of superfine sand. <i>Bioresource Technology</i> , 2021, 319, 124249.	4.8	23
124	Effect of humic acid on photofermentative hydrogen production of volatile fatty acids derived from wastewater fermentation. <i>Renewable Energy</i> , 2019, 131, 356-363.	4.3	22
125	A study by response surface methodology (RSM) on optimization of phosphorus adsorption with nano spherical calcium carbonate derived from waste. <i>Water Science and Technology</i> , 2019, 79, 188-197.	1.2	22
126	Anaerobic accumulation of short-chain fatty acids from algae enhanced by damaging cell structure and promoting hydrolase activity. <i>Bioresource Technology</i> , 2018, 250, 777-783.	4.8	21

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127	Nitrogen-doped porous carbon derived from digested sludge for electrochemical reduction of carbon dioxide to formate. <i>Science of the Total Environment</i> , 2021, 759, 143575.	3.9	21
128	Hydrogen-oxidizing bacteria and their applications in resource recovery and pollutant removal. <i>Science of the Total Environment</i> , 2022, 835, 155559.	3.9	21
129	Long-term effects of engineered nanoparticles on enzyme activity and functional bacteria in wastewater treatment plants. <i>Water Science and Technology</i> , 2015, 72, 99-105.	1.2	20
130	Using Mixed Sludge-derived Short-chain Fatty Acids Enhances Power Generation of Microbial Fuel Cells. <i>Energy Procedia</i> , 2017, 105, 1282-1288.	1.8	20
131	Integrated approach to enhance the anaerobic biodegradation of benz[\pm]anthracene: A high-molecule-weight polycyclic aromatic hydrocarbon in sludge by simultaneously improving the bioavailability and microbial activity. <i>Journal of Hazardous Materials</i> , 2019, 365, 322-330.	6.5	20
132	Microbial Ecological Mechanism for Long-Term Production of High Concentrations of α -Caproate via Lactate-Driven Chain Elongation. <i>Applied and Environmental Microbiology</i> , 2021, 87, .	1.4	20
133	Propionic acid-rich fermentation (PARF) production from organic wastes: A review. <i>Bioresource Technology</i> , 2021, 339, 125569.	4.8	20
134	Nitric Oxide: A Neglected Driver for the Conjugative Transfer of Antibiotic Resistance Genes among Wastewater Microbiota. <i>Environmental Science & Technology</i> , 2022, 56, 6466-6478.	4.6	20
135	A new process to improve short-chain fatty acids and bio-methane generation from waste activated sludge. <i>Journal of Environmental Sciences</i> , 2016, 43, 159-168.	3.2	19
136	New applications of quinone redox mediators: Modifying nature-derived materials for anaerobic biotransformation process. <i>Science of the Total Environment</i> , 2020, 744, 140652.	3.9	19
137	Carbon Nitride Anchored on a Nitrogen-Doped Carbon Nanotube Surface for Enhanced Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56954-56962.	4.0	19
138	Joint effects of carbon nanotubes and copper oxide nanoparticles on fermentation metabolism towards <i>Saccharofermentans acetigenes</i> : Enhancing environmental adaptability and transcriptional expression. <i>Bioresource Technology</i> , 2021, 336, 125318.	4.8	19
139	Determination of cyflufenamid residues in 12 foodstuffs by QuEChERS-HPLC-MS/MS. <i>Food Chemistry</i> , 2021, 362, 130148.	4.2	19
140	Insight into a direct carbon dioxide effect on denitrification and denitrifying bacterial communities in estuarine sediment. <i>Science of the Total Environment</i> , 2018, 643, 1074-1083.	3.9	18
141	Source separation, transportation, pretreatment, and valorization of municipal solid waste: a critical review. <i>Environment, Development and Sustainability</i> , 2022, 24, 11471-11513.	2.7	18
142	Influence of alkyl sulfates on waste activated sludge fermentation at ambient temperature. <i>Journal of Hazardous Materials</i> , 2007, 148, 110-115.	6.5	17
143	Using cassava distiller's dried grains as carbon and microbe sources to enhance denitrification of nitrate-contaminated groundwater. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 2839-2847.	1.7	17
144	Short-term batch studies on biological removal of chromium from synthetic wastewater using activated sludge biomass. <i>Bioresource Technology</i> , 2005, 96, 1722-1729.	4.8	16

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