

Qi Yang

List of Publications by Year in descending order

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245
papers

18,489
citations

8755

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17592

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docs citations

245
times ranked

11870
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchical assembly of graphene-bridged Ag ₃ PO ₄ /Ag/BiVO ₄ (040) Z-scheme photocatalyst: An efficient, sustainable and heterogeneous catalyst with enhanced visible-light photoactivity towards tetracycline degradation under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2017, 200, 330-342.	20.2	752
2	Simultaneously efficient adsorption and photocatalytic degradation of tetracycline by Fe-based MOFs. <i>Journal of Colloid and Interface Science</i> , 2018, 519, 273-284.	9.4	552
3	Enhanced Photocatalytic Degradation of Tetracycline by AgI/BiVO ₄ Heterojunction under Visible-Light Irradiation: Mineralization Efficiency and Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32887-32900.	8.0	407
4	Recent advances in photo-activated sulfate radical-advanced oxidation process (SR-AOP) for refractory organic pollutants removal in water. <i>Chemical Engineering Journal</i> , 2019, 378, 122149.	12.7	401
5	Stable Zr(IV)-Based Metal-Organic Frameworks with Predesigned Functionalized Ligands for Highly Selective Detection of Fe(III) Ions in Water. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10286-10295.	8.0	371
6	Heterogeneous activation of peroxymonosulfate by Fe-Co layered doubled hydroxide for efficient catalytic degradation of Rhoadmine B. <i>Chemical Engineering Journal</i> , 2017, 321, 222-232.	12.7	344
7	Novel ternary heterojunction photocatalyst of Ag nanoparticles and g-C ₃ N ₄ nanosheets co-modified BiVO ₄ for wider spectrum visible-light photocatalytic degradation of refractory pollutant. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 133-147.	20.2	343
8	Effectiveness and mechanisms of phosphate adsorption on iron-modified biochars derived from waste activated sludge. <i>Bioresource Technology</i> , 2018, 247, 537-544.	9.6	297
9	Catalytic degradation of ciprofloxacin by a visible-light-assisted peroxymonosulfate activation system: Performance and mechanism. <i>Water Research</i> , 2020, 173, 115559.	11.3	270
10	Efficient decontamination of organic pollutants under high salinity conditions by a nonradical peroxymonosulfate activation system. <i>Water Research</i> , 2021, 191, 116799.	11.3	259
11	Efficient construction of bismuth vanadate-based Z-scheme photocatalyst for simultaneous Cr(VI) reduction and ciprofloxacin oxidation under visible light: Kinetics, degradation pathways and mechanism. <i>Chemical Engineering Journal</i> , 2018, 348, 157-170.	12.7	220
12	Enhanced efficiency of biological excess sludge hydrolysis under anaerobic digestion by additional enzymes. <i>Bioresource Technology</i> , 2010, 101, 2924-2930.	9.6	210
13	Impacts of sterilization, microwave and ultrasonication pretreatment on hydrogen producing using waste sludge. <i>Bioresource Technology</i> , 2008, 99, 3651-3658.	9.6	200
14	Total concentrations and speciation of heavy metals in municipal sludge from Changsha, Zhuzhou and Xiangtan in middle-south region of China. <i>Journal of Hazardous Materials</i> , 2008, 160, 324-329.	12.4	194
15	Free nitrous acid serving as a pretreatment method for alkaline fermentation to enhance short-chain fatty acid production from waste activated sludge. <i>Water Research</i> , 2015, 78, 111-120.	11.3	189
16	Mechanisms of peroxymonosulfate pretreatment enhancing production of short-chain fatty acids from waste activated sludge. <i>Water Research</i> , 2019, 148, 239-249.	11.3	188
17	The underlying mechanism of calcium peroxide pretreatment enhancing methane production from anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2019, 164, 114934.	11.3	184
18	Enhanced dewaterability of waste activated sludge by Fe(II)-activated peroxymonosulfate oxidation. <i>Bioresource Technology</i> , 2016, 206, 134-140.	9.6	179

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19	Removal of lead(II) from aqueous solutions using carbonate hydroxyapatite extracted from eggshell waste. <i>Journal of Hazardous Materials</i> , 2010, 177, 126-130.	12.4	173
20	Photo-reduction of bromate in drinking water by metallic Ag and reduced graphene oxide (RGO) jointly modified BiVO ₄ under visible light irradiation. <i>Water Research</i> , 2016, 101, 555-563.	11.3	170
21	Free ammonia enhances dark fermentative hydrogen production from waste activated sludge. <i>Water Research</i> , 2018, 133, 272-281.	11.3	163
22	Photocatalytic degradation of perfluorooctanoic acid and perfluorooctane sulfonate in water: A critical review. <i>Chemical Engineering Journal</i> , 2017, 328, 927-942.	12.7	160
23	Unveiling the mechanisms of how cationic polyacrylamide affects short-chain fatty acids accumulation during long-term anaerobic fermentation of waste activated sludge. <i>Water Research</i> , 2019, 155, 142-151.	11.3	159
24	Graphene oxide and carbon nitride nanosheets co-modified silver chromate nanoparticles with enhanced visible-light photoactivity and anti-photocorrosion properties towards multiple refractory pollutants degradation. <i>Applied Catalysis B: Environmental</i> , 2017, 209, 493-505.	20.2	158
25	Preparation of peanut hull-based activated carbon by microwave-induced phosphoric acid activation and its application in Remazol Brilliant Blue R adsorption. <i>Industrial Crops and Products</i> , 2012, 37, 178-185.	5.2	157
26	Understanding and mitigating the toxicity of cadmium to the anaerobic fermentation of waste activated sludge. <i>Water Research</i> , 2017, 124, 269-279.	11.3	157
27	Understanding the impact of cationic polyacrylamide on anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2018, 130, 281-290.	11.3	156
28	Heterogeneous activation of peroxymonosulfate using Mn-Fe layered double hydroxide: Performance and mechanism for organic pollutant degradation. <i>Science of the Total Environment</i> , 2019, 663, 453-464.	8.0	151
29	Triclocarban enhances short-chain fatty acids production from anaerobic fermentation of waste activated sludge. <i>Water Research</i> , 2017, 127, 150-161.	11.3	150
30	Adsorption of Cd(II) and Cu(II) from aqueous solution by carbonate hydroxylapatite derived from eggshell waste. <i>Journal of Hazardous Materials</i> , 2007, 147, 534-539.	12.4	143
31	Hydrated lanthanum oxide-modified diatomite as highly efficient adsorbent for low-concentration phosphate removal from secondary effluents. <i>Journal of Environmental Management</i> , 2019, 231, 370-379.	7.8	140
32	AgBr nanoparticles decorated 2D/2D GO/Bi ₂ WO ₆ photocatalyst with enhanced photocatalytic performance for the removal of tetracycline hydrochloride. <i>Chemical Engineering Journal</i> , 2021, 410, 128283.	12.7	139
33	An efficient and green pretreatment to stimulate short-chain fatty acids production from waste activated sludge anaerobic fermentation using free nitrous acid. <i>Chemosphere</i> , 2016, 144, 160-167.	8.2	137
34	Free nitrous acid promotes hydrogen production from dark fermentation of waste activated sludge. <i>Water Research</i> , 2018, 145, 113-124.	11.3	137
35	Calcium peroxide promotes hydrogen production from dark fermentation of waste activated sludge. <i>Chemical Engineering Journal</i> , 2019, 355, 22-32.	12.7	137
36	Aged refuse enhances anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2017, 123, 724-733.	11.3	136

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37	Landfill leachate pretreatment by coagulation-flocculation process using iron-based coagulants: Optimization by response surface methodology. <i>Chemical Engineering Journal</i> , 2012, 200-202, 39-51.	12.7	134
38	Sulfite serving as a pretreatment method for alkaline fermentation to enhance short-chain fatty acid production from waste activated sludge. <i>Chemical Engineering Journal</i> , 2020, 385, 123991.	12.7	131
39	Effect of ciprofloxacin on biological nitrogen and phosphorus removal from wastewater. <i>Science of the Total Environment</i> , 2017, 605-606, 368-375.	8.0	127
40	Mxene-modulated dual-heterojunction generation on a metal-organic framework (MOF) via surface constitution reconstruction for enhanced photocatalytic activity. <i>Chemical Engineering Journal</i> , 2020, 390, 124519.	12.7	124
41	Potential impact of salinity on methane production from food waste anaerobic digestion. <i>Waste Management</i> , 2017, 67, 308-314.	7.4	123
42	Unveiling the mechanism of biochar-activated hydrogen peroxide on the degradation of ciprofloxacin. <i>Chemical Engineering Journal</i> , 2019, 374, 520-530.	12.7	122
43	Highly selective electrochemical nitrate reduction using copper phosphide self-supported copper foam electrode: Performance, mechanism, and application. <i>Water Research</i> , 2021, 193, 116881.	11.3	121
44	Facile synthesis of In ₂ S ₃ /UiO-66 composite with enhanced adsorption performance and photocatalytic activity for the removal of tetracycline under visible light irradiation. <i>Journal of Colloid and Interface Science</i> , 2019, 535, 444-457.	9.4	120
45	Is denitrifying anaerobic methane oxidation-centered technologies a solution for the sustainable operation of wastewater treatment Plants?. <i>Bioresource Technology</i> , 2017, 234, 456-465.	9.6	117
46	Adsorption removal of cadmium and copper from aqueous solution by areca's A food waste. <i>Journal of Hazardous Materials</i> , 2008, 157, 490-495.	12.4	115
47	Combined effect of sodium dodecyl sulfate and enzyme on waste activated sludge hydrolysis and acidification. <i>Bioresource Technology</i> , 2011, 102, 7103-7110.	9.6	108
48	Novel insights into enzymatic-enhanced anaerobic digestion of waste activated sludge by three-dimensional excitation and emission matrix fluorescence spectroscopy. <i>Chemosphere</i> , 2013, 91, 579-585.	8.2	108
49	Enhanced aerobic sludge granulation in sequencing batch reactor by Mg ²⁺ augmentation. <i>Bioresource Technology</i> , 2009, 100, 64-67.	9.6	102
50	A critical review on the mechanisms of persulfate activation by iron-based materials: Clarifying some ambiguity and controversies. <i>Chemical Engineering Journal</i> , 2021, 407, 127078.	12.7	101
51	Modified MIL-100(Fe) for enhanced photocatalytic degradation of tetracycline under visible-light irradiation. <i>Journal of Colloid and Interface Science</i> , 2020, 574, 364-376.	9.4	100
52	Understanding the mechanisms of how poly aluminium chloride inhibits short-chain fatty acids production from anaerobic fermentation of waste activated sludge. <i>Chemical Engineering Journal</i> , 2018, 334, 1351-1360.	12.7	99
53	Understanding the fate and impact of capsaicin in anaerobic co-digestion of food waste and waste activated sludge. <i>Water Research</i> , 2021, 188, 116539.	11.3	99
54	Biological phosphorus removal in sequencing batch reactor with single-stage oxic process. <i>Bioresource Technology</i> , 2008, 99, 5466-5473.	9.6	97

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55	Indirect electrochemical reduction of nitrate in water using zero-valent titanium anode: Factors, kinetics, and mechanism. <i>Water Research</i> , 2019, 157, 191-200.	11.3	95
56	Mechanistic insights into the effect of poly ferric sulfate on anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2021, 189, 116645.	11.3	95
57	Simultaneous Adsorption/Reduction of Bromate by Nanoscale Zerovalent Iron Supported on Modified Activated Carbon. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 12574-12581.	3.7	93
58	Effect of poly aluminum chloride on dark fermentative hydrogen accumulation from waste activated sludge. <i>Water Research</i> , 2019, 153, 217-228.	11.3	93
59	Revealing the Underlying Mechanisms of How Sodium Chloride Affects Short-Chain Fatty Acid Production from the Cofermentation of Waste Activated Sludge and Food Waste. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4675-4684.	6.7	92
60	Visible-light photocatalytic degradation of multiple antibiotics by AgI nanoparticle-sensitized Bi ₅ O ₇ I microspheres: Enhanced interfacial charge transfer based on Z-scheme heterojunctions. <i>Journal of Catalysis</i> , 2017, 352, 160-170.	6.2	92
61	Enhanced short-chain fatty acids production from waste activated sludge by sophorolipid: Performance, mechanism, and implication. <i>Bioresource Technology</i> , 2019, 284, 456-465.	9.6	91
62	Electrocatalytic hydrodechlorination of 4-chlorophenol on Pd supported multi-walled carbon nanotubes particle electrodes. <i>Chemical Engineering Journal</i> , 2019, 358, 903-911.	12.7	90
63	A critical review of volatile fatty acids produced from waste activated sludge: enhanced strategies and its applications. <i>Environmental Science and Pollution Research</i> , 2019, 26, 13984-13998.	5.3	89
64	Free ammonia aids ultrasound pretreatment to enhance short-chain fatty acids production from waste activated sludge. <i>Bioresource Technology</i> , 2019, 275, 163-171.	9.6	88
65	Towards hydrogen production from waste activated sludge: Principles, challenges and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110283.	16.4	86
66	Wastewater Opportunities for Denitrifying Anaerobic Methane Oxidation. <i>Trends in Biotechnology</i> , 2017, 35, 799-802.	9.3	85
67	Simultaneous perchlorate and nitrate removal coupled with electricity generation in autotrophic denitrifying biocathode microbial fuel cell. <i>Chemical Engineering Journal</i> , 2017, 308, 783-790.	12.7	85
68	Enhanced short-chain fatty acids production from waste activated sludge by combining calcium peroxide with free ammonia pretreatment. <i>Bioresource Technology</i> , 2018, 262, 114-123.	9.6	85
69	Advanced landfill leachate treatment using iron-carbon microelectrolysis- Fenton process: Process optimization and column experiments. <i>Journal of Hazardous Materials</i> , 2016, 318, 460-467.	12.4	83
70	Free nitrous acid-based nitrifying sludge treatment in a two-sludge system enhances nutrient removal from low-carbon wastewater. <i>Bioresource Technology</i> , 2017, 244, 920-928.	9.6	83
71	Improved biological phosphorus removal performance driven by the aerobic/extended-idle regime with propionate as the sole carbon source. <i>Water Research</i> , 2012, 46, 3868-3878.	11.3	80
72	Effect of diclofenac on the production of volatile fatty acids from anaerobic fermentation of waste activated sludge. <i>Bioresource Technology</i> , 2018, 254, 7-15.	9.6	80

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73	Free Ammonia-Based Pretreatment Promotes Short-Chain Fatty Acid Production from Waste Activated Sludge. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9120-9129.	6.7	79
74	Feasibility of enhancing short-chain fatty acids production from sludge anaerobic fermentation at free nitrous acid pretreatment: Role and significance of Tea saponin. <i>Bioresource Technology</i> , 2018, 254, 194-202.	9.6	79
75	Enhanced full solar spectrum photocatalysis by nitrogen-doped graphene quantum dots decorated BiO _{2-x} nanosheets: Ultrafast charge transfer and molecular oxygen activation. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119218.	20.2	79
76	Sulfate radical induced degradation of Methyl Violet azo dye with CuFe layered doubled hydroxide as heterogeneous photoactivator of persulfate. <i>Journal of Environmental Management</i> , 2018, 227, 406-414.	7.8	77
77	Improved methane production from waste activated sludge by combining free ammonia with heat pretreatment: Performance, mechanisms and applications. <i>Bioresource Technology</i> , 2018, 268, 230-236.	9.6	77
78	Synergetic transformations of multiple pollutants driven by BiVO ₄ -catalyzed sulfite under visible light irradiation: Reaction kinetics and intrinsic mechanism. <i>Chemical Engineering Journal</i> , 2019, 355, 624-636.	12.7	77
79	The biochar-supported iron-copper bimetallic composite activating oxygen system for simultaneous adsorption and degradation of tetracycline. <i>Chemical Engineering Journal</i> , 2020, 402, 126039.	12.7	77
80	Enhanced visible light photocatalytic activity and mechanism of ZnSn(OH) ₆ nanocubes modified with AgI nanoparticles. <i>Catalysis Communications</i> , 2016, 73, 1-6.	3.3	76
81	A critical review on the application of biochar in environmental pollution remediation: Role of persistent free radicals (PFRs). <i>Journal of Environmental Sciences</i> , 2021, 108, 201-216.	6.1	76
82	How Does Chitosan Affect Methane Production in Anaerobic Digestion?. <i>Environmental Science & Technology</i> , 2021, 55, 15843-15852.	10.0	76
83	Interaction between perfluorooctanoic acid and aerobic granular sludge. <i>Water Research</i> , 2020, 169, 115249.	11.3	75
84	Hydrolysis kinetics in anaerobic digestion of waste activated sludge enhanced by Î±-amylase. <i>Biochemical Engineering Journal</i> , 2012, 62, 17-21.	3.6	74
85	Approach of describing dynamic production of volatile fatty acids from sludge alkaline fermentation. <i>Bioresource Technology</i> , 2017, 238, 343-351.	9.6	73
86	Clarifying the Role of Free Ammonia in the Production of Short-Chain Fatty Acids from Waste Activated Sludge Anaerobic Fermentation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14104-14113.	6.7	73
87	Enhanced dewaterability of anaerobically digested sludge by in-situ free nitrous acid treatment. <i>Water Research</i> , 2020, 169, 115264.	11.3	73
88	Role of free nitrous acid in the pretreatment of waste activated sludge: Extracellular polymeric substances disruption or cells lysis?. <i>Chemical Engineering Journal</i> , 2018, 336, 28-37.	12.7	72
89	Enhanced Short-Chain Fatty Acids from Waste Activated Sludge by Heatâ€“CaO₂ Advanced Thermal Hydrolysis Pretreatment: Parameter Optimization, Mechanisms, and Implications. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3544-3555.	6.7	71
90	Electrochemical Cr(VI) removal from aqueous media using titanium as anode: Simultaneous indirect electrochemical reduction of Cr(VI) and in-situ precipitation of Cr(III). <i>Chemosphere</i> , 2020, 260, 127537.	8.2	71

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91	Free ammonia-based pretreatment enhances phosphorus release and recovery from waste activated sludge. <i>Chemosphere</i> , 2018, 213, 276-284.	8.2	70
92	Feasibility of enhancing short-chain fatty acids production from waste activated sludge after free ammonia pretreatment: Role and significance of rhamnolipid. <i>Bioresource Technology</i> , 2018, 267, 141-148.	9.6	70
93	Activation of nitrite by freezing process for anaerobic digestion enhancement of waste activated sludge: Performance and mechanisms. <i>Chemical Engineering Journal</i> , 2020, 387, 124147.	12.7	70
94	Recent advances in transition metal carbides and nitrides (MXenes): Characteristics, environmental remediation and challenges. <i>Chemical Engineering Journal</i> , 2021, 418, 129296.	12.7	70
95	Thermal-alkaline pretreatment of polyacrylamide flocculated waste activated sludge: Process optimization and effects on anaerobic digestion and polyacrylamide degradation. <i>Bioresource Technology</i> , 2019, 281, 158-167.	9.6	68
96	Three-dimensional network space Ag ₃ PO ₄ /NP-CQDs/rGH for enhanced organic pollutant photodegradation: Synergetic photocatalysis activity/stability and effect of real water quality parameters. <i>Chemical Engineering Journal</i> , 2020, 390, 124454.	12.7	68
97	Degradation of landfill leachate compounds by persulfate for groundwater remediation. <i>Chemical Engineering Journal</i> , 2017, 307, 399-407.	12.7	67
98	Novel stepwise pH control strategy to improve short chain fatty acid production from sludge anaerobic fermentation. <i>Bioresource Technology</i> , 2018, 249, 431-438.	9.6	67
99	Enhanced anaerobic co-digestion of waste activated sludge and food waste by sulfidated microscale zerovalent iron: Insights in direct interspecies electron transfer mechanism. <i>Bioresource Technology</i> , 2020, 316, 123901.	9.6	67
100	Improving disintegration and acidification of waste activated sludge by combined alkaline and microwave pretreatment. <i>Chemical Engineering Research and Design</i> , 2013, 91, 521-526.	5.6	66
101	A novel pretreatment process of mature landfill leachate with ultrasonic activated persulfate: Optimization using integrated Taguchi method and response surface methodology. <i>Chemical Engineering Research and Design</i> , 2015, 98, 268-275.	5.6	66
102	Heterogeneous activation of persulfate by Ag doped BiFeO ₃ composites for tetracycline degradation. <i>Journal of Colloid and Interface Science</i> , 2020, 566, 33-45.	9.4	66
103	Heat pretreatment assists free ammonia to enhance hydrogen production from waste activated sludge. <i>Bioresource Technology</i> , 2019, 283, 316-325.	9.6	65
104	Mechanisms of potassium permanganate pretreatment improving anaerobic fermentation performance of waste activated sludge. <i>Chemical Engineering Journal</i> , 2021, 406, 126797.	12.7	64
105	Photocatalytic degradation of tetracycline by metal-organic frameworks modified with Bi ₂ WO ₆ nanosheet under direct sunlight. <i>Chemosphere</i> , 2021, 284, 131386.	8.2	64
106	Core-shell structured Cu ₂ O@HKUST-1 heterojunction photocatalyst with robust stability for highly efficient tetracycline hydrochloride degradation under visible light. <i>Chemical Engineering Journal</i> , 2021, 426, 131255.	12.7	64
107	Digestion liquid based alkaline pretreatment of waste activated sludge promotes methane production from anaerobic digestion. <i>Water Research</i> , 2021, 199, 117198.	11.3	63
108	Nickel toxicity to the performance and microbial community of enhanced biological phosphorus removal system. <i>Chemical Engineering Journal</i> , 2017, 313, 415-423.	12.7	61

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109	Effect of initial pH on short chain fatty acid production during the anaerobic fermentation of membrane bioreactor sludge enhanced by alkyl polyglcoside. <i>International Biodeterioration and Biodegradation</i> , 2015, 104, 283-289.	3.9	60
110	Effect of triclocarban on hydrogen production from dark fermentation of waste activated sludge. <i>Bioresource Technology</i> , 2019, 279, 307-316.	9.6	60
111	Facile synthesis of visible-light-active BiOI modified Bi ₂ MoO ₆ photocatalysts with highly enhanced photocatalytic activity. <i>Ceramics International</i> , 2016, 42, 2515-2525.	4.8	59
112	Biogas production from anaerobic co-digestion of waste activated sludge: co-substrates and influencing parameters. <i>Reviews in Environmental Science and Biotechnology</i> , 2019, 18, 771-793.	8.1	59
113	A novel bioflocculant produced by <i>Leptothrix sp.</i> and its application to sludge dewatering. <i>Water and Environment Journal</i> , 2012, 26, 560-566.	2.2	57
114	Hydrolysis and acidification of waste-activated sludge in the presence of biosurfactant rhamnolipid: effect of pH. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 5597-5604.	3.6	56
115	Fe(II)-Al(III) layered double hydroxides prepared by ultrasound-assisted co-precipitation method for the reduction of bromate. <i>Journal of Hazardous Materials</i> , 2013, 250-251, 345-353.	12.4	55
116	Effect of nickel on the flocculability, settleability, and dewaterability of activated sludge. <i>Bioresource Technology</i> , 2017, 224, 188-196.	9.6	55
117	Highly-efficient degradation of amiloride by sulfate radicals-based photocatalytic processes: Reactive kinetics, degradation products and mechanism. <i>Chemical Engineering Journal</i> , 2018, 354, 983-994.	12.7	55
118	Enhanced volatile fatty acids production from waste activated sludge anaerobic fermentation by adding tofu residue. <i>Bioresource Technology</i> , 2019, 274, 430-438.	9.6	55
119	Enhanced visible-light-driven photocatalytic removal of refractory pollutants by Zn/Fe mixed metal oxide derived from layered double hydroxide. <i>Catalysis Communications</i> , 2017, 99, 15-19.	3.3	54
120	Effect of clarithromycin on the production of volatile fatty acids from waste activated sludge anaerobic fermentation. <i>Bioresource Technology</i> , 2019, 288, 121598.	9.6	54
121	Enhancement of post-anoxic denitrification for biological nutrient removal: effect of different carbon sources. <i>Environmental Science and Pollution Research</i> , 2015, 22, 5887-5894.	5.3	53
122	Enhanced ciprofloxacin removal by sludge-derived biochar: Effect of humic acid. <i>Chemosphere</i> , 2019, 231, 495-501.	8.2	53
123	Kinetic studies for the biosorption of lead and copper ions by <i>Penicillium simplicissimum</i> immobilized within loofa sponge. <i>Journal of Hazardous Materials</i> , 2008, 159, 610-615.	12.4	52
124	Evaluating the potential impact of hydrochar on the production of short-chain fatty acid from sludge anaerobic digestion. <i>Bioresource Technology</i> , 2017, 246, 234-241.	9.6	52
125	Enhanced methane production from waste activated sludge by combining calcium peroxide with ultrasonic: Performance, mechanism, and implication. <i>Bioresource Technology</i> , 2019, 279, 108-116.	9.6	52
126	Efficient degradation of bisphenol A via peroxydisulfate activation using in-situ N-doped carbon nanoparticles: Structure-function relationship and reaction mechanism. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 551-562.	9.4	52

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127	Enhanced production of short-chain fatty acid from food waste stimulated by alkyl polyglycosides and its mechanism. <i>Waste Management</i> , 2015, 46, 133-139.	7.4	51
128	Sulfamethazine (SMZ) affects fermentative short-chain fatty acids production from waste activated sludge. <i>Science of the Total Environment</i> , 2018, 639, 1471-1479.	8.0	51
129	Understanding the mechanism of how anaerobic fermentation deteriorates sludge dewaterability. <i>Chemical Engineering Journal</i> , 2021, 404, 127026.	12.7	51
130	Effect of inorganic carbon on anaerobic ammonium oxidation enriched in sequencing batch reactor. <i>Journal of Environmental Sciences</i> , 2008, 20, 940-944.	6.1	50
131	A full-scale treatment of freeway toll-gate domestic sewage using ecology filter integrated constructed rapid infiltration. <i>Ecological Engineering</i> , 2010, 36, 827-831.	3.6	50
132	Effective adsorption/electrocatalytic degradation of perchlorate using Pd/Pt supported on N-doped activated carbon fiber cathode. <i>Journal of Hazardous Materials</i> , 2017, 323, 602-610.	12.4	50
133	How does free ammonia-based sludge pretreatment improve methane production from anaerobic digestion of waste activated sludge. <i>Chemosphere</i> , 2018, 206, 491-501.	8.2	50
134	Synergistic adsorption and electrocatalytic reduction of bromate by Pd/N-doped loofah sponge-derived biochar electrode. <i>Journal of Hazardous Materials</i> , 2020, 386, 121651.	12.4	49
135	Effects of Cd(II) on wastewater biological nitrogen and phosphorus removal. <i>Chemosphere</i> , 2014, 117, 27-32.	8.2	48
136	Evaluating the effect of biochar on mesophilic anaerobic digestion of waste activated sludge and microbial diversity. <i>Bioresource Technology</i> , 2019, 294, 122235.	9.6	48
137	Inducing mechanism of biological phosphorus removal driven by the aerobic/extended-idle regime. <i>Biotechnology and Bioengineering</i> , 2012, 109, 2798-2807.	3.3	47
138	Effect of acetate to glycerol ratio on enhanced biological phosphorus removal. <i>Chemosphere</i> , 2018, 196, 78-86.	8.2	47
139	Pretreatment of landfill leachate in near-neutral pH condition by persulfate activated Fe-C micro-electrolysis system. <i>Chemosphere</i> , 2019, 216, 749-756.	8.2	47
140	Enhanced Hydrolysis and Acidification of Waste Activated Sludge by Biosurfactant Rhamnolipid. <i>Applied Biochemistry and Biotechnology</i> , 2013, 171, 1416-1428.	2.9	46
141	The probable metabolic relation between phosphate uptake and energy storages formations under single-stage oxic condition. <i>Bioresource Technology</i> , 2009, 100, 4005-4011.	9.6	45
142	Freezing in the presence of nitrite pretreatment enhances hydrogen production from dark fermentation of waste activated sludge. <i>Journal of Cleaner Production</i> , 2020, 248, 119305.	9.3	45
143	Adsorption-coupled reduction of bromate by Fe(II)-Al(III) layered double hydroxide in fixed-bed column: Experimental and breakthrough curves analysis. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 28, 54-59.	5.8	44
144	Free ammonia-based sludge treatment reduces sludge production in the wastewater treatment process. <i>Chemosphere</i> , 2018, 205, 484-492.	8.2	44

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145	Enhancement of short-chain fatty acids production from microalgae by potassium ferrate addition: Feasibility, mechanisms and implications. <i>Bioresource Technology</i> , 2020, 318, 124266.	9.6	44
146	Catalytic and electrocatalytic reduction of perchlorate in water – A review. <i>Chemical Engineering Journal</i> , 2016, 306, 1081-1091.	12.7	43
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