

Wan-Qian Guo

List of Publications by Year in descending order

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90
papers

6,944
citations

57758

44
h-index

58581

82
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all docs

90
docs citations

90
times ranked

4941
citing authors

#	ARTICLE	IF	CITATIONS
1	Compared effects of "solid-based" hydrogen peroxide pretreatment on disintegration and properties of waste activated sludge. <i>Chinese Chemical Letters</i> , 2022, 33, 1293-1297.	9.0	16
2	Insights into removal of sulfonamides in anaerobic activated sludge system: Mechanisms, degradation pathways and stress responses. <i>Journal of Hazardous Materials</i> , 2022, 423, 127248.	12.4	30
3	Effect of substrate structure on medium chain fatty acids production and reactor microbiome. <i>Environmental Research</i> , 2022, 204, 111947.	7.5	21
4	Peroxydisulfate bridged photocatalysis of covalent triazine framework for carbamazepine degradation. <i>Chemical Engineering Journal</i> , 2022, 427, 131613.	12.7	18
5	Enhanced utilization efficiency of peroxymonosulfate via water vortex-driven piezo-activation for removing organic contaminants from water. <i>Environmental Science and Ecotechnology</i> , 2022, 10, 100165.	13.5	49
6	Mutual interaction between the secreted flavins and immobilized quinone in anaerobic removal of high-polarity aromatic compounds containing nitrogen by <i>Shewanella</i> sp. RQs-106. <i>Journal of Hazardous Materials</i> , 2022, 431, 128595.	12.4	5
7	Simultaneous medium chain fatty acids production and process carbon emissions reduction in a continuous-flow reactor: Re-understanding of carbon flow distribution. <i>Environmental Research</i> , 2022, 212, 113294.	7.5	5
8	Spin-states-assistance peroxymonosulfate absorption via Mn doped catalyst with/without light for BPA oxidation: The negative contribution of electrons transfer by light. <i>Chemical Engineering Journal</i> , 2022, 443, 136399.	12.7	18
9	Atomically dispersed cobalt on carbon nitride for peroxymonosulfate activation: Switchable catalysis enabled by light irradiation. <i>Chemical Engineering Journal</i> , 2022, 446, 137277.	12.7	19
10	Developing functional carbon nitride materials for efficient peroxymonosulfate activation: From interface catalysis to irradiation synergy. , 2022, 1, 21-33.		1
11	Dissecting the roles of conductive materials in attenuating antibiotic resistance genes: Evolution of physiological features and bacterial community. <i>Journal of Hazardous Materials</i> , 2022, 438, 129411.	12.4	5
12	Structure"dependent degradation of nitroimidazoles by cobalt"manganese layered double hydroxide catalyzed peroxymonosulfate process. <i>Chemosphere</i> , 2021, 266, 129006.	8.2	34
13	Alkylethoxyglucoside-enhanced volatile fatty acids production from waste activated sludge: Performance and mechanisms. <i>Journal of Cleaner Production</i> , 2021, 289, 125765.	9.3	20
14	Insight into the effects of hydroxyl groups on the rates and pathways of tetracycline antibiotics degradation in the carbon black activated peroxydisulfate oxidation process. <i>Journal of Hazardous Materials</i> , 2021, 412, 125256.	12.4	70
15	Insights into the oxidation of organic contaminants by Co(II) activated peracetic acid: The overlooked role of high-valent cobalt-oxo species. <i>Water Research</i> , 2021, 201, 117313.	11.3	106
16	Non-covalent doping of carbon nitride with biochar: Boosted peroxymonosulfate activation performance and unexpected singlet oxygen evolution mechanism. <i>Chemical Engineering Journal</i> , 2021, 418, 129504.	12.7	64
17	Novel Nonradical Oxidation of Sulfonamide Antibiotics with Co(II)-Doped g-C ₃ N ₄ -Activated Peracetic Acid: Role of High-Valent Cobalt"Oxo Species. <i>Environmental Science & Technology</i> , 2021, 55, 12640-12651.	10.0	115
18	Peroxymonosulfate activation by cobalt(II) for degradation of organic contaminants via high-valent cobalt-oxo and radical species. <i>Journal of Hazardous Materials</i> , 2021, 416, 125679.	12.4	27

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19	Multipath elimination of bisphenol A over bifunctional polymeric carbon nitride/biochar hybrids in the presence of persulfate and visible light. <i>Journal of Hazardous Materials</i> , 2021, 417, 126008.	12.4	35
20	Deciphering the transfers of antibiotic resistance genes under antibiotic exposure conditions: Driven by functional modules and bacterial community. <i>Water Research</i> , 2021, 205, 117672.	11.3	76
21	Bio-CQDs surface modification BiOCl for the BPA elimination and evaluation in visible light: The contribution of C-localized level. <i>Journal of Colloid and Interface Science</i> , 2021, 602, 1-13.	9.4	28
22	Consolidated 3D Co3Mn-layered double hydroxide aerogel for photo-assisted peroxydisulfate activation in metronidazole degradation. <i>Chemical Engineering Journal</i> , 2021, 423, 130172.	12.7	48
23	Opportunities and challenges in microbial medium chain fatty acids production from waste biomass. <i>Bioresource Technology</i> , 2021, 340, 125633.	9.6	48
24	Difunctional carbon quantum dots/g-C3N4 with in-plane electron buffer for intense tetracycline degradation under visible light: Tight adsorption and smooth electron transfer. <i>Applied Catalysis B: Environmental</i> , 2021, 299, 120694.	20.2	84
25	Inhibition of biofouling in membrane bioreactor by metabolic uncoupler based on controlling microorganisms accumulation and quorum sensing signals secretion. <i>Chemosphere</i> , 2020, 245, 125363.	8.2	12
26	New insight into the substituents affecting the peroxydisulfate nonradical oxidation of sulfonamides in water. <i>Water Research</i> , 2020, 171, 115374.	11.3	88
27	Sludge-derived biochar as efficient persulfate activators: Sulfurization-induced electronic structure modulation and disparate nonradical mechanisms. <i>Applied Catalysis B: Environmental</i> , 2020, 279, 119361.	20.2	240
28	In situ photoreduction of structural Fe(III) in a metal-organic framework for peroxydisulfate activation and efficient removal of antibiotics in real wastewater. <i>Journal of Hazardous Materials</i> , 2020, 388, 121996.	12.4	121
29	Long-term medium chain carboxylic acids production from liquor-making wastewater: Parameters optimization and toxicity mitigation. <i>Chemical Engineering Journal</i> , 2020, 388, 124218.	12.7	59
30	Enhanced removal of sulfadiazine by sulfidated ZVI activated persulfate process: Performance, mechanisms and degradation pathways. <i>Chemical Engineering Journal</i> , 2020, 388, 124303.	12.7	112
31	B-doped graphitic porous biochar with enhanced surface affinity and electron transfer for efficient peroxydisulfate activation. <i>Chemical Engineering Journal</i> , 2020, 396, 125119.	12.7	148
32	Activation of peroxydisulfate by cobalt-impregnated biochar for atrazine degradation: The pivotal roles of persistent free radicals and ecotoxicity assessment. <i>Journal of Hazardous Materials</i> , 2020, 398, 122768.	12.4	100
33	Carbon quantum dots-based semiconductor preparation methods, applications and mechanisms in environmental contamination. <i>Chinese Chemical Letters</i> , 2020, 31, 2556-2566.	9.0	49
34	Concentrating lactate-carbon flow on medium chain carboxylic acids production by hydrogen supply. <i>Bioresource Technology</i> , 2019, 291, 121573.	9.6	46
35	Edge-nitrogenated biochar for efficient peroxydisulfate activation: An electron transfer mechanism. <i>Water Research</i> , 2019, 160, 405-414.	11.3	566
36	Medium chain carboxylic acids production from waste biomass: Current advances and perspectives. <i>Biotechnology Advances</i> , 2019, 37, 599-615.	11.7	187

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37	Degradation pathways and kinetics of anthraquinone compounds along with nitrate removal by a newly isolated <i>Rhodococcus pyridinivorans</i> GF3 under aerobic conditions. <i>Bioresource Technology</i> , 2019, 285, 121336.	9.6	18
38	Biochar-induced Fe(III) reduction for persulfate activation in sulfamethoxazole degradation: Insight into the electron transfer, radical oxidation and degradation pathways. <i>Chemical Engineering Journal</i> , 2019, 362, 561-569.	12.7	220
39	Singlet oxygen-dominated peroxydisulfate activation by sludge-derived biochar for sulfamethoxazole degradation through a nonradical oxidation pathway: Performance and mechanism. <i>Chemical Engineering Journal</i> , 2019, 357, 589-599.	12.7	363
40	Hydroxyl radical dominated degradation of aquatic sulfamethoxazole by FeO/bisulfite/O ₂ : Kinetics, mechanisms, and pathways. <i>Water Research</i> , 2018, 138, 323-332.	11.3	236
41	Electro-peroxone pretreatment for enhanced simulated hospital wastewater treatment and antibiotic resistance genes reduction. <i>Environment International</i> , 2018, 115, 70-78.	10.0	64
42	Enhanced peroxymonosulfate activation for sulfamethazine degradation by ultrasound irradiation: Performances and mechanisms. <i>Chemical Engineering Journal</i> , 2018, 335, 145-153.	12.7	269
43	Selective degradation of sulfonamide antibiotics by peroxymonosulfate alone: Direct oxidation and nonradical mechanisms. <i>Chemical Engineering Journal</i> , 2018, 334, 2539-2546.	12.7	284
44	Weak magnetic field for enhanced oxidation of sulfamethoxazole by FeO/H ₂ O ₂ and FeO/persulfate: Performance, mechanisms, and degradation pathways. <i>Chemical Engineering Journal</i> , 2018, 351, 532-539.	12.7	55
45	Effect of metabolic uncoupler, 3,3',4',5-tetrachlorosalicylanilide (TCS) on <i>Bacillus subtilis</i> : biofilm formation, flocculability and surface characteristics. <i>RSC Advances</i> , 2018, 8, 16178-16186.	3.6	7
46	Inhibition of biofilm formation by chemical uncoupler, 3,3',4',5-tetrachlorosalicylanilide (TCS): From the perspective of quorum sensing and biofilm related genes. <i>Biochemical Engineering Journal</i> , 2018, 137, 95-99.	3.6	10
47	Upgrading liquor-making wastewater into medium chain fatty acid: Insights into co-electron donors, key microflora, and energy harvest. <i>Water Research</i> , 2018, 145, 650-659.	11.3	147
48	Simultaneous bisphenol F degradation, heterotrophic nitrification and aerobic denitrification by a bacterial consortium. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 854-860.	3.2	22
49	Heteroatoms doped graphene for catalytic ozonation of sulfamethoxazole by metal-free catalysis: Performances and mechanisms. <i>Chemical Engineering Journal</i> , 2017, 317, 632-639.	12.7	107
50	Factors affecting p-nitrophenol removal by microscale zero-valent iron coupling with weak magnetic field (WMF). <i>RSC Advances</i> , 2017, 7, 18231-18237.	3.6	23
51	Adsorption of p-nitrophenols (PNP) on microalgal biochar: Analysis of high adsorption capacity and mechanism. <i>Bioresource Technology</i> , 2017, 244, 1456-1464.	9.6	144
52	Enhancing sludge biodegradability and volatile fatty acid production by tetrakis hydroxymethyl phosphonium sulfate pretreatment. <i>Bioresource Technology</i> , 2017, 239, 518-522.	9.6	32
53	Degradation of sulfamethoxazole by a heterogeneous Fenton-like system with microscale zero-valent iron: Kinetics, effect factors, and pathways. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 81, 232-238.	5.3	43
54	Enhanced volatile fatty acid production from excess sludge by combined free nitrous acid and rhamnolipid treatment. <i>Bioresource Technology</i> , 2017, 224, 727-732.	9.6	46

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55	Mathematical modeling of simultaneous carbon-nitrogen-sulfur removal from industrial wastewater. <i>Journal of Hazardous Materials</i> , 2017, 321, 371-381.	12.4	17
56	Surfactant (CTAB) assisted flower-like Bi ₂ WO ₆ through hydrothermal method: Unintentional bromide ion doping and photocatalytic activity. <i>Catalysis Communications</i> , 2017, 88, 68-72.	3.3	49
57	Removal of cephalosporin antibiotics 7-ACA from wastewater during the cultivation of lipid-accumulating microalgae. <i>Bioresource Technology</i> , 2016, 221, 284-290.	9.6	125
58	Degradation of sulfadiazine in water by a UV/O ₃ process: performance and degradation pathway. <i>RSC Advances</i> , 2016, 6, 57138-57143.	3.6	39
59	Enhancement of volatile fatty acid production by co-fermentation of food waste and excess sludge without pH control: The mechanism and microbial community analyses. <i>Bioresource Technology</i> , 2016, 216, 653-660.	9.6	175
60	Enhanced sulfamethoxazole ozonation by noble metal-free catalysis based on magnetic Fe ₃ O ₄ nanoparticles: catalytic performance and degradation mechanism. <i>RSC Advances</i> , 2016, 6, 19265-19270.	3.6	40
61	Promotion effects of ultrasound on sludge biodegradation by thermophilic bacteria <i>Geobacillus stearothermophilus</i> TP-12. <i>Biochemical Engineering Journal</i> , 2016, 105, 281-287.	3.6	9
62	Economical evaluation of sludge reduction and characterization of effluent organic matter in an alternating aeration activated sludge system combining ozone/ultrasound pretreatment. <i>Bioresource Technology</i> , 2015, 177, 194-203.	9.6	33
63	Enhanced amoxicillin treatment using the electro-peroxone process: key factors and degradation mechanism. <i>RSC Advances</i> , 2015, 5, 52695-52702.	3.6	50
64	Enhancement of volatile fatty acid production using semi-continuous anaerobic food waste fermentation without pH control. <i>RSC Advances</i> , 2015, 5, 103876-103883.	3.6	17
65	Sulfamethoxazole degradation by ultrasound/ozone oxidation process in water: Kinetics, mechanisms, and pathways. <i>Ultrasonics Sonochemistry</i> , 2015, 22, 182-187.	8.2	145
66	Reduction of 4-chloronitrobenzene in a bioelectrochemical reactor with biocathode at ambient temperature for a long-term operation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 46, 119-124.	5.3	16
67	Optimization of ultrasonic pretreatment and substrate/inoculum ratio to enhance hydrolysis and volatile fatty acid production from food waste. <i>RSC Advances</i> , 2014, 4, 53321-53326.	3.6	31
68	Thermophilic hydrogen production from sludge pretreated by thermophilic bacteria: Analysis of the advantages of microbial community and metabolism. <i>Bioresource Technology</i> , 2014, 172, 433-437.	9.6	43
69	Simultaneous nutrient removal and reduction in sludge from sewage waste using an alternating anaerobic "anoxic" microaerobic "aerobic" system combining ozone/ultrasound technology. <i>RSC Advances</i> , 2014, 4, 52892-52897.	3.6	17
70	Possible causes of excess sludge reduction adding metabolic uncoupler, 3,3',4',5-tetrachlorosalicylanilide (TCS), in sequence batch reactors. <i>Bioresource Technology</i> , 2014, 173, 96-103.	9.6	51
71	Accelerated startup of hydrogen production expanded granular sludge bed with L-Cysteine supplementation. <i>Energy</i> , 2013, 60, 94-98.	8.8	24
72	Treatability study of 3,3',4',5-tetrachlorosalicylanilide (TCS) combined with 2,4,6-trichlorophenol (TCP) to reduce excess sludge production in a sequence batch reactor. <i>Bioresource Technology</i> , 2013, 143, 642-646.	9.6	16

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73	Ultrasonic-assisted ozone oxidation process of triphenylmethane dye degradation: Evidence for the promotion effects of ultrasonic on malachite green decolorization and degradation mechanism. <i>Bioresource Technology</i> , 2013, 128, 827-830.	9.6	66
74	Minimization of excess sludge production by in-situ activated sludge treatment processes – A comprehensive review. <i>Biotechnology Advances</i> , 2013, 31, 1386-1396.	11.7	180
75	Characterizing the fluorescent products of waste activated sludge in dissolved organic matter following ultrasound assisted ozone pretreatments. <i>Bioresource Technology</i> , 2013, 131, 560-563.	9.6	56
76	Application of low frequency ultrasound to stimulate the bio-activity of activated sludge for use as an inoculum in enhanced hydrogen production. <i>RSC Advances</i> , 2013, 3, 21848.	3.6	20
77	Photo-hydrogen production by <i>Rhodospseudomonas faecalis</i> RLD-53 immobilized on the surface of modified activated carbon fibers. <i>RSC Advances</i> , 2012, 2, 2225.	3.6	21
78	Continuous photo-hydrogen production in anaerobic fluidized bed photo-reactor with activated carbon fiber as carrier. <i>RSC Advances</i> , 2012, 2, 5531.	3.6	18
79	Simultaneous waste activated sludge disintegration and biological hydrogen production using an ozone/ultrasound pretreatment. <i>Bioresource Technology</i> , 2012, 124, 347-354.	9.6	94
80	A rapid and low energy consumption method to decolorize the high concentration triphenylmethane dye wastewater: Operational parameters optimization for the ultrasonic-assisted ozone oxidation process. <i>Bioresource Technology</i> , 2012, 105, 40-47.	9.6	33
81	Treatability study of using low frequency ultrasonic pretreatment to augment continuous biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 14180-14185.	7.1	31
82	Optimization of operating parameters for sludge process reduction under alternating aerobic/oxygen-limited conditions by response surface methodology. <i>Bioresource Technology</i> , 2011, 102, 9843-9851.	9.6	55
83	Biological hydrogen production by dark fermentation: challenges and prospects towards scaled-up production. <i>Current Opinion in Biotechnology</i> , 2011, 22, 365-370.	6.6	180
84	Optimization of key variables for the enhanced production of hydrogen by <i>Ethanoligenens harbinense</i> W1 using response surface methodology. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 5843-5848.	7.1	25
85	Accelerated startup of biological hydrogen production process by addition of <i>Ethanoligenens harbinense</i> B49 in a biofilm-based column reactor. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 13407-13412.	7.1	18
86	Biological hydrogen production from organic wastewater by dark fermentation in China: Overview and prospects. <i>Frontiers of Environmental Science and Engineering in China</i> , 2009, 3, 375-379.	0.8	16
87	Optimization of culture conditions for hydrogen production by <i>Ethanoligenens harbinense</i> B49 using response surface methodology. <i>Bioresource Technology</i> , 2009, 100, 1192-1196.	9.6	147
88	Biohydrogen production from ethanol-type fermentation of molasses in an expanded granular sludge bed (EGSB) reactor. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 4981-4988.	7.1	143
89	Dark fermentation of xylose and glucose mix using isolated <i>Thermoanaerobacterium thermosaccharolyticum</i> W16. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 6124-6132.	7.1	180
90	Ultrasonic-assisted ozone oxidation process for sulfamethoxazole removal: impact factors and degradation process. <i>Desalination and Water Treatment</i> , 0, , 1-8.	1.0	4