Can Wang

List of Publications by Year
in descending order

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74 papers	1,946 citations	236833 25 h-index	289141 40 g-index
76 all docs	76 docs citations	76 times ranked	1736 citing authors

#	Article	IF	Citations
1	Comparison of separated and combined photodegradation and biofiltration technology for the treatment of volatile organic compounds: A critical review. Critical Reviews in Environmental Science and Technology, 2022, 52, 1325-1355.	6.6	16
2	Reduction of biofilm adhesion strength by adjusting the characteristics of biofilms through enzymatic quorum quenching. Chemosphere, 2022, 288, 132465.	4.2	13
3	Rapid detection of airborne protein from Mycobacterium tuberculosis using a biosensor detection system. Analyst, The, 2022, 147, 614-624.	1.7	9
4	Portable immunosensor directly and rapidly detects Mycobacterium tuberculosis in sputum. Analytical Methods, 2022, 14, 438-448.	1.3	2
5	A self-contained and integrated microfluidic nano-detection system for the biosensing and analysis of molecular interactions. Lab on A Chip, 2022, 22, 1702-1713.	3.1	7
6	Mechanism for Reducing the Horizontal Transfer Risk of the Airborne Antibiotic-Resistant Genes of Escherichia coli Species through Microwave or UV Irradiation. International Journal of Environmental Research and Public Health, 2022, 19, 4332.	1.2	3
7	Electrochemical oxidation of reverse osmosis concentrates using macroporous Ti-ENTA/SnO2-Sb flow-through anode: Degradation performance, energy efficiency and toxicity assessment. Journal of Hazardous Materials, 2021, 401, 123295.	6.5	54
8	Novel Multistage Electrochemical Flow-through Mode (EFTM) with Porous Electrodes for Reclaimed Wastewater Treatment in Pipes. ACS ES&T Water, 2021, 1, 653-660.	2.3	11
9	Rapid and Sensitive Detection of Mycobacterium tuberculosis by an Enhanced Nanobiosensor. ACS Sensors, 2021, 6, 3367-3376.	4.0	26
10	A short review of bioaerosol emissions from gas bioreactors: Health threats, influencing factors and control technologies. Chemosphere, 2020, 253, 126737.	4.2	32
11	Development of a highly efficient electrochemical flow-through anode based on inner in-site enhanced TiO2-nanotubes array. Environment International, 2020, 140, 105813.	4.8	40
12	Performance enhancement of a biofilter with pH buffering and filter bed supporting material in removal of chlorobenzene. Chemosphere, 2020, 251, 126358.	4.2	22
13	Gel-encapsulated microorganisms used as a strategy to rapidly recover biofilters after starvation interruption. Journal of Environmental Management, 2020, 261, 110237.	3.8	13
14	Performance improvement of a biofilter by using gel-encapsulated microorganisms assembled in a 3D mesh material. Chemosphere, 2020, 251, 126618.	4.2	2
15	Opportunities for nanotechnology to enhance electrochemical treatment of pollutants in potable water and industrial wastewater â€“ a perspective. Environmental Science: Nano, 2020, 7, 2178-2194.	2.2	74
16	Optimized determination of airborne tetracycline resistance genes in laboratory atmosphere. Frontiers of Environmental Science and Engineering, 2020, 14, 1.	3.3	8
17	Comprehending adsorption of methylethylketone and toluene and microwave regeneration effectiveness for beaded activated carbon derived from recycled waste bamboo tar. Journal of the Air and Waste Management Association, 2020, 70, 616-628.	0.9	10
18	Microwave-induced release and degradation of airborne antibiotic resistance genes (ARGs) from Escherichia coli bioaerosol based on microwave absorbing material. Journal of Hazardous Materials, 2020, 394, 122535.	6.5	16

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19	Electrochemical oxidation of reverse osmosis concentrates using enhanced TiO2-NTA/SnO2-Sb anodes with/without PbO2 layer. Chemical Engineering Journal, 2020, 399, 125756.	6.6	41
20	A Resource utilization method for volatile organic compounds emission from the semiconductor industry: Selective catalytic oxidation of isopropanol to acetone Over Au/Î±-Fe2O3 nanosheets. Applied Catalysis B: Environmental, 2020, 275, 119011.	10.8	31
21	Size effect, mutual inhibition and oxidation mechanism of the catalytic removal of a toluene and acetone mixture over TiO2 nanosheet-supported Pt nanocatalysts. Applied Catalysis B: Environmental, 2020, 274, 118963.	10.8	125
22	Natural deep eutectic solvents efficient catalytic conversion of cellulose to total reducing sugars (TRS). Journal of Molecular Liquids, 2020, 312, 113282.	2.3	18
23	Distribution of antibiotic resistance genes and bacteria from six atmospheric environments: Exposure risk to human. Science of the Total Environment, 2019, 694, 133750.	3.9	55
24	Development of a Three-Dimensional Electrochemical System Using a Blue TiO₂/SnO₂â€“Sb₂O₃ Anode for Treating Low-Ionic-Strength Wastewater. Environmental Science & Technology, 2019, 53, 13784-13793.	4.6	45
25	Kinetic, mechanism and mass transfer impact on electrochemical oxidation of MIT using Ti-enhanced nanotube arrays/SnO2-Sb anode. Electrochimica Acta, 2019, 323, 134779.	2.6	54
26	Airborne disinfection using microwave-based technology: Energy efficient and distinct inactivation mechanism compared with waterborne disinfection. Journal of Aerosol Science, 2019, 137, 105437.	1.8	31
27	Determination of design parameters and cost-effectiveness analysis for a two-liquid phase biofilter treating gaseous dichloromethane. Biochemical Engineering Journal, 2019, 143, 81-90.	1.8	8
28	Electrochemical degradation of methylisothiazolinone by using Ti/SnO2-Sb2O3/Î±, Î²-PbO2 electrode: Kinetics, energy efficiency, oxidation mechanism and degradation pathway. Chemical Engineering Journal, 2019, 374, 626-636.	6.6	133
29	Microwave-induced release and degradation of airborne endotoxins from Escherichia coli bioaerosol. Journal of Hazardous Materials, 2019, 366, 27-33.	6.5	26
30	Inactivation of airborne bacteria using different UV sources: Performance modeling, energy utilization, and endotoxin degradation. Science of the Total Environment, 2019, 655, 787-795.	3.9	56
31	Characterization of Dissolved Organic Matter Removal during Biological Treatment of Commingled Chemical Industrial Wastewater: Relationship with Fluorescent Dissolved Organic Matter Transformation. Polish Journal of Environmental Studies, 2019, 29, 307-322.	0.6	3
32	Full-scale dissolved air flotation (DAF) equipment for emergency treatment of eutrophic water. Water Science and Technology, 2018, 77, 1802-1809.	1.2	9
33	Oxidation and biotoxicity assessment of microcystin-LR using different AOPs based on UV, O3 and H2O2. Frontiers of Environmental Science and Engineering, 2018, 12, 1.	3.3	25
34	Assessment of the spatialâ€“temporal variations on the water quality of stagnant Haihe River, Tianjin, North China. Water Science and Technology: Water Supply, 2018, 18, 1103-1116.	1.0	0
35	Comparison of physical technologies for biomass control in biofilters treating gaseous toluene. Journal of the Air and Waste Management Association, 2018, 68, 1118-1125.	0.9	13
36	Effects of microcystin-LR on the tissue growth and physiological responses of the aquatic plant Iris pseudacorus L.. Aquatic Toxicology, 2018, 200, 197-205.	1.9	18

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37	Determination and risk assessment of airborne endotoxin concentrations in a university campus. Journal of Aerosol Science, 2018, 115, 146-157.	1.8	36
38	Improved removal performance and mechanism investigation of papermaking wastewater treatment using manganese enhanced Fenton reaction. Water Science and Technology, 2018, 77, 2509-2516.	1.2	6
39	Treatment of hydrophobic volatile organic compounds using two-liquid phase biofilters. Science of the Total Environment, 2018, 640-641, 1447-1454.	3.9	33
40	Dissimilar Emission Characteristics between Bioaerosol and suspended Particles from Gaseous Biofilters and Bioaerosol Health Risk Evaluation. Aerosol and Air Quality Research, 2018, 18, 1874-1885.	0.9	28
41	Comparison of different algicides on growth of Microcystis aeruginosa and microcystin release, as well as its removal pathway in riverways. Frontiers of Environmental Science and Engineering, 2017, 11, 1.	3.3	5
42	Removal performance and water quality analysis of paper machine white water in a full-scale wastewater treatment plant. Environmental Technology (United Kingdom), 2017, 38, 1443-1451.	1.2	5
43	Optimization and Influence Mechanism of Sampling and Analysis of Airborne Endotoxin Based on Limulus Amebocyte Lysate Assay. Aerosol and Air Quality Research, 2017, 17, 1000-1010.	0.9	13
44	Pretreatment of ultraâ€high concentration pharmaceutical wastewater by a combined Fenton And Electrolytic oxidation technologies: <scp>COD</scp> reduction, biodegradability improvement, and biotoxicity removal. Environmental Progress and Sustainable Energy, 2016, 35, 772-778.	1.3	3
45	Operating conditionsÂon the optimization and water quality analysis on the advanced treatment of papermaking wastewater by coagulation/Fenton process. Desalination and Water Treatment, 2016, 57, 12755-12762.	1.0	6
46	Evaluating the removal of organic fraction of commingled chemical industrial wastewater by activated sludge process augmented with powdered activated carbon. Arabian Journal of Chemistry, 2016, 9, S1951-S1961.	2.3	27
47	Comparison study on Cr(VI) removal by anion exchange resins of Amberlite IRA96, D301R, and DEX-Cr: isotherm, kinetics, thermodynamics, and regeneration studies. Desalination and Water Treatment, 2015, 55, 1840-1850.	1.0	4
48	Optimization and effect of powdered activated carbon addition on commingled chemical industrial wastewater treatment in a sequencing batch reactor. Desalination and Water Treatment, 2015, 56, 24-32.	1.0	1
49	Biofiltration performance and characteristics of high-temperature gaseous benzene, hexane and toluene. Chemical Engineering Journal, 2015, 279, 689-695.	6.6	49
50	Interaction of gaseous aromatic and aliphatic compounds in thermophilic biofilters. Journal of Hazardous Materials, 2015, 300, 210-217.	6.5	21
51	Influence of powdered activated carbon addition on water quality, sludge properties, and microbial characteristics in the biological treatment of commingled industrial wastewater. Journal of Hazardous Materials, 2015, 295, 1-8.	6.5	32
52	Dynamic fouling behavior and cake layer structure changes in nonwoven membrane bioreactor for bath wastewater treatment. Chemical Engineering Journal, 2015, 264, 462-469.	6.6	49
53	Cr (VI) removal by a new type of anion exchange resin DEX-Cr: Adsorption affecting factors, isotherms, kinetics, and desorption regeneration. Environmental Progress and Sustainable Energy, 2015, 34, 387-393.	1.3	18
54	The stimulating effects of the addition of glucose on denitrification and removal of recalcitrant organic compounds. Brazilian Journal of Chemical Engineering, 2014, 31, 09-18.	0.7	8

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55	Degradation of organic pollutants and characteristics of activated sludge in an anaerobic/anoxic/oxic reactor treating chemical industrial wastewater. Brazilian Journal of Chemical Engineering, 2014, 31, 703-713.	0.7	14
56	Treatment of secondary effluent using a three-dimensional electrode system: COD removal, biotoxicity assessment, and disinfection effects. Chemical Engineering Journal, 2014, 243, 1-6.	6.6	102
57	Analysis of microbial metabolic characteristics in mesophilic and thermophilic biofilters using Biolog plate technique. Chemical Engineering Journal, 2013, 230, 415-421.	6.6	58
58	Treatment of mixed chemical wastewater and the agglomeration mechanism via an internal electrolysis filter. Chemical Engineering Journal, 2013, 215-216, 50-56.	6.6	23
59	Advanced Treatment of Industrial Wastewater by Heterogeneous Fenton Reaction Using a Novel Composite Catalyst. Asian Journal of Chemistry, 2013, 25, 3313-3317.	0.1	1
60	Mesophilic and thermophilic biofiltration of gaseous toluene in a long-term operation: Performance evaluation, biomass accumulation, mass balance analysis and isolation identification. Journal of Hazardous Materials, 2012, 229-230, 94-99.	6.5	42
61	Effects of design parameters on performance and cost analysis of combined ultraviolet-biofilter systems treating gaseous chlorobenzene based on mathematical modeling. Frontiers of Environmental Science and Engineering, 2012, 6, 588-594.	3.3	6
62	Chemical identification and genotoxicity analysis of petrochemical industrial wastewater. Frontiers of Environmental Science and Engineering, 2012, 6, 350-359.	3.3	6
63	Simultaneous removal of COD and NH₃â€N in secondary effluent of highâ€salinity industrial wasteâ€water by electrochemical oxidation. Journal of Chemical Technology and Biotechnology, 2012, 87, 130-136.	1.6	22
64	Achieving biodegradability enhancement and acute biotoxicity removal through the treatment of pharmaceutical wastewater using a combined internal electrolysis and ultrasonic irradiation technology. Frontiers of Environmental Science and Engineering in China, 2011, 5, 481-487.	0.8	16
65	Modeling of a Combined Ultraviolet-Biofilter System to Treat Gaseous Chlorobenzene I: Model Development and Parametric Sensitivity. Journal of the Air and Waste Management Association, 2011, 61, 295-301.	0.9	4
66	Advantages of combined UV photodegradation and biofiltration processes to treat gaseous chlorobenzene. Journal of Hazardous Materials, 2009, 171, 1120-1125.	6.5	57
67	Effects of UV pretreatment on microbial community structure and metabolic characteristics in a subsequent biofilter treating gaseous chlorobenzene. Bioresource Technology, 2009, 100, 5581-5587.	4.8	31
68	Effects of nitrogen source, empty bed residence time and inlet concentration on biofilter removal of chlorobenzene. Engineering in Life Sciences, 2009, 9, 109-115.	2.0	17
69	Stimulative Effects of Ozone on a Biofilter Treating Gaseous Chlorobenzene. Environmental Science & Technology, 2009, 43, 9407-9412.	4.6	52
70	Effects of Operation Conditions on Removal Rate Constant and Quantum Yield of Gaseous Chlorobenzene Degradation in a Photochemical Reactor. Journal of the Air and Waste Management Association, 2009, 59, 386-391.	0.9	7
71	Reduction of Toxic Products and Bioaerosol Emission of a Combined Ultraviolet-Biofilter Process for Chlorobenzene Treatment. Journal of the Air and Waste Management Association, 2009, 59, 405-410.	0.9	19
72	A novel integrated UV-biofilter system to treat high concentration of gaseous chlorobenzene. Science Bulletin, 2008, 53, 2712-2716.	4.3	14

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73	Chemical identification and acute biotoxicity assessment of gaseous chlorobenzene photodegradation products. Chemosphere, 2008, 73, 1167-1171.	4.2	34
74	Biodegradation of Gaseous Chlorobenzene by White-rot Fungus Phanerochaete chrysosporium. Biomedical and Environmental Sciences, 2008, 21, 474-478.	0.2	28