

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	Electrochemical degradation of methylisothiazolinone by using Ti/SnO ₂ -Sb ₂ O ₃ /Ti, Ti-PbO ₂ electrode: Kinetics, energy efficiency, oxidation mechanism and degradation pathway. <i>Chemical Engineering Journal</i> , 2019, 374, 626-636.	6.6	133
2	Size effect, mutual inhibition and oxidation mechanism of the catalytic removal of a toluene and acetone mixture over TiO ₂ nanosheet-supported Pt nanocatalysts. <i>Applied Catalysis B: Environmental</i> , 2020, 274, 118963.	10.8	125
3	Treatment of secondary effluent using a three-dimensional electrode system: COD removal, biotoxicity assessment, and disinfection effects. <i>Chemical Engineering Journal</i> , 2014, 243, 1-6.	6.6	102
4	Opportunities for nanotechnology to enhance electrochemical treatment of pollutants in potable water and industrial wastewater – a perspective. <i>Environmental Science: Nano</i> , 2020, 7, 2178-2194.	2.2	74
5	Analysis of microbial metabolic characteristics in mesophilic and thermophilic biofilters using Biolog plate technique. <i>Chemical Engineering Journal</i> , 2013, 230, 415-421.	6.6	58
6	Advantages of combined UV photodegradation and biofiltration processes to treat gaseous chlorobenzene. <i>Journal of Hazardous Materials</i> , 2009, 171, 1120-1125.	6.5	57
7	Inactivation of airborne bacteria using different UV sources: Performance modeling, energy utilization, and endotoxin degradation. <i>Science of the Total Environment</i> , 2019, 655, 787-795.	3.9	56
8	Distribution of antibiotic resistance genes and bacteria from six atmospheric environments: Exposure risk to human. <i>Science of the Total Environment</i> , 2019, 694, 133750.	3.9	55
9	Kinetic, mechanism and mass transfer impact on electrochemical oxidation of MIT using Ti-enhanced nanotube arrays/SnO ₂ -Sb anode. <i>Electrochimica Acta</i> , 2019, 323, 134779.	2.6	54
10	Electrochemical oxidation of reverse osmosis concentrates using macroporous Ti-ENTA/SnO ₂ -Sb flow-through anode: Degradation performance, energy efficiency and toxicity assessment. <i>Journal of Hazardous Materials</i> , 2021, 401, 123295.	6.5	54
11	Stimulative Effects of Ozone on a Biofilter Treating Gaseous Chlorobenzene. <i>Environmental Science & Technology</i> , 2009, 43, 9407-9412.	4.6	52
12	Biofiltration performance and characteristics of high-temperature gaseous benzene, hexane and toluene. <i>Chemical Engineering Journal</i> , 2015, 279, 689-695.	6.6	49
13	Dynamic fouling behavior and cake layer structure changes in nonwoven membrane bioreactor for bath wastewater treatment. <i>Chemical Engineering Journal</i> , 2015, 264, 462-469.	6.6	49
14	Development of a Three-Dimensional Electrochemical System Using a Blue TiO ₂ /SnO ₂ -Sb ₂ O ₃ Anode for Treating Low-Ionic-Strength Wastewater. <i>Environmental Science & Technology</i> , 2019, 53, 13784-13793.	4.6	45
15	Mesophilic and thermophilic biofiltration of gaseous toluene in a long-term operation: Performance evaluation, biomass accumulation, mass balance analysis and isolation identification. <i>Journal of Hazardous Materials</i> , 2012, 229-230, 94-99.	6.5	42
16	Electrochemical oxidation of reverse osmosis concentrates using enhanced TiO ₂ -NTA/SnO ₂ -Sb anodes with/without PbO ₂ layer. <i>Chemical Engineering Journal</i> , 2020, 399, 125756.	6.6	41
17	Development of a highly efficient electrochemical flow-through anode based on inner in-site enhanced TiO ₂ -nanotubes array. <i>Environment International</i> , 2020, 140, 105813.	4.8	40
18	Determination and risk assessment of airborne endotoxin concentrations in a university campus. <i>Journal of Aerosol Science</i> , 2018, 115, 146-157.	1.8	36

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19	Chemical identification and acute biotoxicity assessment of gaseous chlorobenzene photodegradation products. <i>Chemosphere</i> , 2008, 73, 1167-1171.	4.2	34
20	Treatment of hydrophobic volatile organic compounds using two-liquid phase biofilters. <i>Science of the Total Environment</i> , 2018, 640-641, 1447-1454.	3.9	33
21	Influence of powdered activated carbon addition on water quality, sludge properties, and microbial characteristics in the biological treatment of commingled industrial wastewater. <i>Journal of Hazardous Materials</i> , 2015, 295, 1-8.	6.5	32
22	A short review of bioaerosol emissions from gas bioreactors: Health threats, influencing factors and control technologies. <i>Chemosphere</i> , 2020, 253, 126737.	4.2	32
23	Effects of UV pretreatment on microbial community structure and metabolic characteristics in a subsequent biofilter treating gaseous chlorobenzene. <i>Bioresource Technology</i> , 2009, 100, 5581-5587.	4.8	31
24	Airborne disinfection using microwave-based technology: Energy efficient and distinct inactivation mechanism compared with waterborne disinfection. <i>Journal of Aerosol Science</i> , 2019, 137, 105437.	1.8	31
25	A Resource utilization method for volatile organic compounds emission from the semiconductor industry: Selective catalytic oxidation of isopropanol to acetone Over Au/Fe ₂ O ₃ nanosheets. <i>Applied Catalysis B: Environmental</i> , 2020, 275, 119011.	10.8	31
26	Biodegradation of Gaseous Chlorobenzene by White-rot Fungus <i>Phanerochaete chrysosporium</i> . <i>Biomedical and Environmental Sciences</i> , 2008, 21, 474-478.	0.2	28
27	Dissimilar Emission Characteristics between Bioaerosol and suspended Particles from Gaseous Biofilters and Bioaerosol Health Risk Evaluation. <i>Aerosol and Air Quality Research</i> , 2018, 18, 1874-1885.	0.9	28
28	Evaluating the removal of organic fraction of commingled chemical industrial wastewater by activated sludge process augmented with powdered activated carbon. <i>Arabian Journal of Chemistry</i> , 2016, 9, S1951-S1961.	2.3	27
29	Microwave-induced release and degradation of airborne endotoxins from <i>Escherichia coli</i> bioaerosol. <i>Journal of Hazardous Materials</i> , 2019, 366, 27-33.	6.5	26
30	Rapid and Sensitive Detection of <i>Mycobacterium tuberculosis</i> by an Enhanced Nanobiosensor. <i>ACS Sensors</i> , 2021, 6, 3367-3376.	4.0	26
31	Oxidation and biotoxicity assessment of microcystin-LR using different AOPs based on UV, O ₃ and H ₂ O ₂ . <i>Frontiers of Environmental Science and Engineering</i> , 2018, 12, 1.	3.3	25
32	Treatment of mixed chemical wastewater and the agglomeration mechanism via an internal electrolysis filter. <i>Chemical Engineering Journal</i> , 2013, 215-216, 50-56.	6.6	23
33	Simultaneous removal of COD and NH ₃ -N in secondary effluent of high salinity industrial wastewater by electrochemical oxidation. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 130-136.	1.6	22
34	Performance enhancement of a biofilter with pH buffering and filter bed supporting material in removal of chlorobenzene. <i>Chemosphere</i> , 2020, 251, 126358.	4.2	22
35	Interaction of gaseous aromatic and aliphatic compounds in thermophilic biofilters. <i>Journal of Hazardous Materials</i> , 2015, 300, 210-217.	6.5	21
36	Reduction of Toxic Products and Bioaerosol Emission of a Combined Ultraviolet-Biofilter Process for Chlorobenzene Treatment. <i>Journal of the Air and Waste Management Association</i> , 2009, 59, 405-410.	0.9	19

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37	Cr (VI) removal by a new type of anion exchange resin DEX-Cr: Adsorption affecting factors, isotherms, kinetics, and desorption regeneration. <i>Environmental Progress and Sustainable Energy</i> , 2015, 34, 387-393.	1.3	18
38	Effects of microcystin-LR on the tissue growth and physiological responses of the aquatic plant <i>Iris pseudacorus</i> L.. <i>Aquatic Toxicology</i> , 2018, 200, 197-205.	1.9	18
39	Natural deep eutectic solvents efficient catalytic conversion of cellulose to total reducing sugars (TRS). <i>Journal of Molecular Liquids</i> , 2020, 312, 113282.	2.3	18
40	Effects of nitrogen source, empty bed residence time and inlet concentration on biofilter removal of chlorobenzene. <i>Engineering in Life Sciences</i> , 2009, 9, 109-115.	2.0	17
41	Achieving biodegradability enhancement and acute biotoxicity removal through the treatment of pharmaceutical wastewater using a combined internal electrolysis and ultrasonic irradiation technology. <i>Frontiers of Environmental Science and Engineering in China</i> , 2011, 5, 481-487.	0.8	16
42	Comparison of separated and combined photodegradation and biofiltration technology for the treatment of volatile organic compounds: A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 1325-1355.	6.6	16
43	Microwave-induced release and degradation of airborne antibiotic resistance genes (ARGs) from <i>Escherichia coli</i> bioaerosol based on microwave absorbing material. <i>Journal of Hazardous Materials</i> , 2020, 394, 122535.	6.5	16
44	A novel integrated UV-biofilter system to treat high concentration of gaseous chlorobenzene. <i>Science Bulletin</i> , 2008, 53, 2712-2716.	4.3	14
45	Degradation of organic pollutants and characteristics of activated sludge in an anaerobic/anoxic/oxic reactor treating chemical industrial wastewater. <i>Brazilian Journal of Chemical Engineering</i> , 2014, 31, 703-713.	0.7	14
46	Comparison of physical technologies for biomass control in biofilters treating gaseous toluene. <i>Journal of the Air and Waste Management Association</i> , 2018, 68, 1118-1125.	0.9	13
47	Gel-encapsulated microorganisms used as a strategy to rapidly recover biofilters after starvation interruption. <i>Journal of Environmental Management</i> , 2020, 261, 110237.	3.8	13
48	Optimization and Influence Mechanism of Sampling and Analysis of Airborne Endotoxin Based on <i>Limulus Amebocyte Lysate</i> Assay. <i>Aerosol and Air Quality Research</i> , 2017, 17, 1000-1010.	0.9	13
49	Reduction of biofilm adhesion strength by adjusting the characteristics of biofilms through enzymatic quorum quenching. <i>Chemosphere</i> , 2022, 288, 132465.	4.2	13
50	Novel Multistage Electrochemical Flow-through Mode (EFTM) with Porous Electrodes for Reclaimed Wastewater Treatment in Pipes. <i>ACS ES&T Water</i> , 2021, 1, 653-660.	2.3	11
51	Comprehending adsorption of methylethylketone and toluene and microwave regeneration effectiveness for beaded activated carbon derived from recycled waste bamboo tar. <i>Journal of the Air and Waste Management Association</i> , 2020, 70, 616-628.	0.9	10
52	Full-scale dissolved air flotation (DAF) equipment for emergency treatment of eutrophic water. <i>Water Science and Technology</i> , 2018, 77, 1802-1809.	1.2	9
53	Rapid detection of airborne protein from <i>Mycobacterium tuberculosis</i> using a biosensor detection system. <i>Analyst</i> , 2022, 147, 614-624.	1.7	9
54	The stimulating effects of the addition of glucose on denitrification and removal of recalcitrant organic compounds. <i>Brazilian Journal of Chemical Engineering</i> , 2014, 31, 09-18.	0.7	8

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55	Determination of design parameters and cost-effectiveness analysis for a two-liquid phase biofilter treating gaseous dichloromethane. <i>Biochemical Engineering Journal</i> , 2019, 143, 81-90.	1.8	8
56	Optimized determination of airborne tetracycline resistance genes in laboratory atmosphere. <i>Frontiers of Environmental Science and Engineering</i> , 2020, 14, 1.	3.3	8
57	Effects of Operation Conditions on Removal Rate Constant and Quantum Yield of Gaseous Chlorobenzene Degradation in a Photochemical Reactor. <i>Journal of the Air and Waste Management Association</i> , 2009, 59, 386-391.	0.9	7
58	A self-contained and integrated microfluidic nano-detection system for the biosensing and analysis of molecular interactions. <i>Lab on A Chip</i> , 2022, 22, 1702-1713.	3.1	7
59	Effects of design parameters on performance and cost analysis of combined ultraviolet-biofilter systems treating gaseous chlorobenzene based on mathematical modeling. <i>Frontiers of Environmental Science and Engineering</i> , 2012, 6, 588-594.	3.3	6
60	Chemical identification and genotoxicity analysis of petrochemical industrial wastewater. <i>Frontiers of Environmental Science and Engineering</i> , 2012, 6, 350-359.	3.3	6
61	Operating conditions on the optimization and water quality analysis on the advanced treatment of papermaking wastewater by coagulation/Fenton process. <i>Desalination and Water Treatment</i> , 2016, 57, 12755-12762.	1.0	6
62	Improved removal performance and mechanism investigation of papermaking wastewater treatment using manganese enhanced Fenton reaction. <i>Water Science and Technology</i> , 2018, 77, 2509-2516.	1.2	6
63	Comparison of different algicides on growth of <i>Microcystis aeruginosa</i> and microcystin release, as well as its removal pathway in riverways. <i>Frontiers of Environmental Science and Engineering</i> , 2017, 11, 1.	3.3	5
64	Removal performance and water quality analysis of paper machine white water in a full-scale wastewater treatment plant. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 1443-1451.	1.2	5
65	Modeling of a Combined Ultraviolet-Biofilter System to Treat Gaseous Chlorobenzene I: Model Development and Parametric Sensitivity. <i>Journal of the Air and Waste Management Association</i> , 2011, 61, 295-301.	0.9	4
66	Comparison study on Cr(VI) removal by anion exchange resins of Amberlite IRA96, D301R, and DEX-Cr: isotherm, kinetics, thermodynamics, and regeneration studies. <i>Desalination and Water Treatment</i> , 2015, 55, 1840-1850.	1.0	4
67	Pretreatment of ultra-high concentration pharmaceutical wastewater by a combined Fenton And Electrolytic oxidation technologies: <scp>COD</scp> reduction, biodegradability improvement, and biotoxicity removal. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 772-778.	1.3	3
68	Characterization of Dissolved Organic Matter Removal during Biological Treatment of Commingled Chemical Industrial Wastewater: Relationship with Fluorescent Dissolved Organic Matter Transformation. <i>Polish Journal of Environmental Studies</i> , 2019, 29, 307-322.	0.6	3
69	Mechanism for Reducing the Horizontal Transfer Risk of the Airborne Antibiotic-Resistant Genes of <i>Escherichia coli</i> Species through Microwave or UV Irradiation. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4332.	1.2	3
70	Performance improvement of a biofilter by using gel-encapsulated microorganisms assembled in a 3D mesh material. <i>Chemosphere</i> , 2020, 251, 126618.	4.2	2
71	Portable immunosensor directly and rapidly detects <i>Mycobacterium tuberculosis</i> in sputum. <i>Analytical Methods</i> , 2022, 14, 438-448.	1.3	2
72	Advanced Treatment of Industrial Wastewater by Heterogeneous Fenton Reaction Using a Novel Composite Catalyst. <i>Asian Journal of Chemistry</i> , 2013, 25, 3313-3317.	0.1	1

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73	Optimization and effect of powdered activated carbon addition on commingled chemical industrial wastewater treatment in a sequencing batch reactor. <i>Desalination and Water Treatment</i> , 2015, 56, 24-32.	1.0	1
74	Assessment of the spatialâ€temporal variations on the water quality of stagnant Haihe River, Tianjin, North China. <i>Water Science and Technology: Water Supply</i> , 2018, 18, 1103-1116.	1.0	0