Guiying Li

List of Publications by Year in descending order

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306 papers	16,211 citations	14614 66 h-index	25716 108 g-index
309 all docs	309 docs citations	309 times ranked	13109 citing authors

#	Article	IF	Citations
1	Kinetics and mechanism of advanced oxidation processes (AOPs) in degradation of ciprofloxacin in water. Applied Catalysis B: Environmental, 2010, 94, 288-294.	10.8	486
2	Recent advances in VOC elimination by catalytic oxidation technology onto various nanoparticles catalysts: a critical review. Applied Catalysis B: Environmental, 2021, 281, 119447.	10.8	467
3	Enhanced visible-light-driven photocatalytic inactivation of Escherichia coli using g-C3N4/TiO2 hybrid photocatalyst synthesized using a hydrothermal-calcination approach. Water Research, 2015, 86, 17-24.	5.3	323
4	Earth-abundant Ni2P/g-C3N4 lamellar nanohydrids for enhanced photocatalytic hydrogen evolution and bacterial inactivation under visible light irradiation. Applied Catalysis B: Environmental, 2017, 217, 570-580.	10.8	311
5	Persistent free radicals in carbon-based materials on transformation of refractory organic contaminants (ROCs) in water: A critical review. Water Research, 2018, 137, 130-143.	5.3	255
6	Visible-Light-Driven Photocatalytic Inactivation of E. coli K-12 by Bismuth Vanadate Nanotubes: Bactericidal Performance and Mechanism. Environmental Science & Technology, 2012, 46, 4599-4606.	4.6	254
7	Metalâ€“organic framework-based nanomaterials for adsorption and photocatalytic degradation of gaseous pollutants: recent progress and challenges. Environmental Science: Nano, 2019, 6, 1006-1025.	2.2	245
8	Photocatalytic nanomaterials for solar-driven bacterial inactivation: recent progress and challenges. Environmental Science: Nano, 2017, 4, 782-799.	2.2	239
9	Boron doped BiOBr nanosheets with enhanced photocatalytic inactivation of Escherichia coli. Applied Catalysis B: Environmental, 2016, 192, 35-45.	10.8	213
10	Enhanced photocatalytic inactivation of Escherichia coli by a novel Z-scheme g-C 3 N 4 /m-Bi 2 O 4 hybrid photocatalyst under visible light: The role of reactive oxygen species. Applied Catalysis B: Environmental, 2017, 214, 23-33.	10.8	210
11	Photocatalytic hydrogen evolution and bacterial inactivation utilizing sonochemical-synthesized g-C3N4/red phosphorus hybrid nanosheets as a wide-spectral-responsive photocatalyst: The role of type I band alignment. Applied Catalysis B: Environmental, 2018, 238, 126-135.	10.8	209
12	Introduce oxygen vacancies into CeO2 catalyst for enhanced coke resistance during photothermocatalytic oxidation of typical VOCs. Applied Catalysis B: Environmental, 2020, 269, 118755.	10.8	184
13	Activation of persulfates by natural magnetic pyrrhotite for water disinfection: Efficiency, mechanisms, and stability. Water Research, 2017, 112, 236-247.	5.3	176
14	Photocatalytic degradation kinetics and mechanism of environmental pharmaceuticals in aqueous suspension of TiO2: A case of Î²-blockers. Journal of Hazardous Materials, 2010, 179, 834-839.	6.5	171
15	Photocatalytic degradation kinetics and mechanism of environmental pharmaceuticals in aqueous suspension of TiO2: A case of sulfa drugs. Catalysis Today, 2010, 153, 200-207.	2.2	171
16	CdIn2S4 microsphere as an efficient visible-light-driven photocatalyst for bacterial inactivation: Synthesis, characterizations and photocatalytic inactivation mechanisms. Applied Catalysis B: Environmental, 2013, 129, 482-490.	10.8	170
17	Systematic Approach to In-Depth Understanding of Photoelectrocatalytic Bacterial Inactivation Mechanisms by Tracking the Decomposed Building Blocks. Environmental Science & Technology, 2014, 48, 9412-9419.	4.6	169
18	Visible-light-driven BiOBr nanosheets for highly facet-dependent photocatalytic inactivation of Escherichia coli. Journal of Materials Chemistry A, 2015, 3, 15148-15155.	5.2	165

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19	Advanced Oxidation Kinetics and Mechanism of Preservative Propylparaben Degradation in Aqueous Suspension of TiO₂ and Risk Assessment of Its Degradation Products. Environmental Science & Technology, 2013, 47, 2704-2712.	4.6	161
20	Mechanism, kinetics and toxicity assessment of OH-initiated transformation of triclosan in aquatic environments. Water Research, 2014, 49, 360-370.	5.3	161
21	Mechanistic Considerations for the Advanced Oxidation Treatment of Fluoroquinolone Pharmaceutical Compounds using TiO₂ Heterogeneous Catalysis. Journal of Physical Chemistry A, 2010, 114, 2569-2575.	1.1	160
22	Comparative study of visible-light-driven photocatalytic mechanisms of dye decolorization and bacterial disinfection by Bâ€“Ni-codoped TiO2 microspheres: The role of different reactive species. Applied Catalysis B: Environmental, 2011, 108-109, 108-116.	10.8	158
23	Pollution characteristics and health risk assessment of volatile organic compounds emitted from different plastic solid waste recycling workshops. Environment International, 2015, 77, 85-94.	4.8	157
24	Visible-light-driven photocatalytic inactivation of E. coli by Ag/AgX-CNTs (X=Cl, Br, I) plasmonic photocatalysts: Bacterial performance and deactivation mechanism. Applied Catalysis B: Environmental, 2014, 158-159, 301-307.	10.8	149
25	Can environmental pharmaceuticals be photocatalytically degraded and completely mineralized in water using g-C3N4/TiO2 under visible light irradiation?â€”Implications of persistent toxic intermediates. Applied Catalysis B: Environmental, 2016, 180, 726-732.	10.8	148
26	Catalyst-free activation of persulfate by visible light for water disinfection: Efficiency and mechanisms. Water Research, 2019, 157, 106-118.	5.3	145
27	Synthesis and Characterization of Novel Plasmonic Ag/AgX-CNTs (X = Cl, Br, I) Nanocomposite Photocatalysts and Synergetic Degradation of Organic Pollutant under Visible Light. ACS Applied Materials & Interfaces, 2013, 5, 6959-6967.	4.0	144
28	Kinetics and Mechanism of ^{â€¢}OH Mediated Degradation of Dimethyl Phthalate in Aqueous Solution: Experimental and Theoretical Studies. Environmental Science & Technology, 2014, 48, 641-648.	4.6	144
29	Photocatalytic degradation kinetics and mechanism of antivirus drug-lamivudine in TiO2 dispersion. Journal of Hazardous Materials, 2011, 197, 229-236.	6.5	141
30	Pollution profiles and health risk assessment of VOCs emitted during e-waste dismantling processes associated with different dismantling methods. Environment International, 2014, 73, 186-194.	4.8	140
31	Highly efficient adsorption and catalytic degradation of ciprofloxacin by a novel heterogeneous Fenton catalyst of hexapod-like pyrite nanosheets mineral clusters. Applied Catalysis B: Environmental, 2022, 300, 120734.	10.8	137
32	Synthesis of Carbon Nanotubeâ€“Anatase TiO₂ Sub-micrometer-sized Sphere Composite Photocatalyst for Synergistic Degradation of Gaseous Styrene. ACS Applied Materials & Interfaces, 2012, 4, 5988-5996.	4.0	128
33	Synergistic photocatalytic inactivation mechanisms of bacteria by graphene sheets grafted plasmonic Ag AgX (XÂ=ÂCl, Br, I) composite photocatalyst under visible light irradiation. Water Research, 2016, 99, 149-161.	5.3	122
34	Characterization and the photocatalytic activity of TiO2 immobilized hydrophobic montmorillonite photocatalysts. Catalysis Today, 2008, 139, 69-76.	2.2	117
35	Theoretical investigation on the kinetics and mechanisms of hydroxyl radical-induced transformation of parabens and its consequences for toxicity: Influence of alkyl-chain length. Water Research, 2016, 91, 77-85.	5.3	117
36	Photoelectrocatalytic decontamination of oilfield produced wastewater containing refractory organic pollutants in the presence of high concentration of chloride ions. Journal of Hazardous Materials, 2006, 138, 392-400.	6.5	115

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37	Antibiotic-resistance gene transfer in antibiotic-resistance bacteria under different light irradiation: Implications from oxidative stress and gene expression. Water Research, 2019, 149, 282-291.	5.3	115
38	Highly efficient visible-light-driven photocatalytic degradation of VOCs by CO2-assisted synthesized mesoporous carbon confined mixed-phase TiO2 nanocomposites derived from MOFs. Applied Catalysis B: Environmental, 2019, 250, 337-346.	10.8	113
39	A Recyclable Mineral Catalyst for Visible-Light-Driven Photocatalytic Inactivation of Bacteria: Natural Magnetic Sphalerite. Environmental Science & Technology, 2013, 47, 11166-11173.	4.6	108
40	Visible-light-enhanced photothermocatalytic activity of ABO3-type perovskites for the decontamination of gaseous styrene. Applied Catalysis B: Environmental, 2017, 209, 146-154.	10.8	108
41	Enhanced Visible-Light-Driven Photocatalytic Bacterial Inactivation by Ultrathin Carbon-Coated Magnetic Cobalt Ferrite Nanoparticles. Environmental Science & Technology, 2018, 52, 4774-4784.	4.6	108
42	One-step process for debromination and aerobic mineralization of tetrabromobisphenol-A by a novel Ochrobactrum sp. T isolated from an e-waste recycling site. Bioresource Technology, 2011, 102, 9148-9154.	4.8	107
43	Optimization synthesis of carbon nanotubes-anatase TiO2 composite photocatalyst by response surface methodology for photocatalytic degradation of gaseous styrene. Applied Catalysis B: Environmental, 2012, 123-124, 69-77.	10.8	102
44	Cross-linked ZnIn 2 S 4 /rGO composite photocatalyst for sunlight-driven photocatalytic degradation of 4-nitrophenol. Applied Catalysis B: Environmental, 2015, 168-169, 266-273.	10.8	101
45	Photocatalytic degradation and mineralization mechanism and toxicity assessment of antivirus drug acyclovir: Experimental and theoretical studies. Applied Catalysis B: Environmental, 2015, 164, 279-287.	10.8	100
46	Biodegradation and detoxification of bisphenol A with one newly-isolated strain Bacillus sp. GZB: Kinetics, mechanism and estrogenic transition. Bioresource Technology, 2012, 114, 224-230.	4.8	94
47	Adsorption mechanisms of different volatile organic compounds onto pristine C2N and Al-doped C2N monolayer: A DFT investigation. Applied Surface Science, 2018, 450, 484-491.	3.1	90
48	Visible light activation of persulfate by magnetic hydrochar for bacterial inactivation: Efficiency, recyclability and mechanisms. Water Research, 2020, 176, 115746.	5.3	89
49	Adsorption and degradation of model volatile organic compounds by a combined titaniaâ€“montmorilloniteâ€“silica photocatalyst. Journal of Hazardous Materials, 2011, 190, 416-423.	6.5	85
50	Preparation and characterization of highly active mesoporous TiO2 photocatalysts by hydrothermal synthesis under weak acid conditions. Microporous and Mesoporous Materials, 2009, 124, 197-203.	2.2	84
51	OH radicals determined photocatalytic degradation mechanisms of gaseous styrene in TiO2 system under 254 nm versus 185 nm irradiation: Combined experimental and theoretical studies. Applied Catalysis B: Environmental, 2019, 257, 117912.	10.8	84
52	Photocatalytic degradation mechanism of gaseous styrene over Au/TiO2@CNTs: Relevance of superficial state with deactivation mechanism. Applied Catalysis B: Environmental, 2020, 272, 118969.	10.8	84
53	Pollution profiles, health risk of VOCs and biohazards emitted from municipal solid waste transfer station and elimination by an integrated biological-photocatalytic flow system: A pilot-scale investigation. Journal of Hazardous Materials, 2013, 250-251, 147-154.	6.5	83
54	Structural and photocatalytic degradation characteristics of hydrothermally treated mesoporous TiO2. Applied Catalysis A: General, 2008, 350, 237-243.	2.2	81

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55	Natural magnetic pyrrhotite as a high-Efficient persulfate activator for micropollutants degradation: Radicals identification and toxicity evaluation. Journal of Hazardous Materials, 2017, 340, 435-444.	6.5	81
56	Enhanced visible-light photocatalytic activity to volatile organic compounds degradation and deactivation resistance mechanism of titania confined inside a metal-organic framework. Journal of Colloid and Interface Science, 2018, 522, 174-182.	5.0	81
57	In-situ decoration of metallic Bi on BiOBr with exposed (110) facets and surface oxygen vacancy for enhanced solar light photocatalytic degradation of gaseous n-hexane. Chinese Journal of Catalysis, 2020, 41, 1603-1612.	6.9	78
58	Pollution profiles and risk assessment of PBDEs and phenolic brominated flame retardants in water environments within a typical electronic waste dismantling region. Environmental Geochemistry and Health, 2015, 37, 457-473.	1.8	77
59	A critical review on human internal exposure of phthalate metabolites and the associated health risks. Environmental Pollution, 2021, 279, 116941.	3.7	77
60	Enhanced photocatalytic mechanism of Ag3PO4 nano-sheets using MS2 (Mâ€¯=â€¯Mo, W)/rGO hybrids as co-catalysts for 4-nitrophenol degradation in water. Applied Catalysis B: Environmental, 2018, 232, 11-18.	10.8	75
61	Halogenated and organophosphorous flame retardants in surface soils from an e-waste dismantling park and its surrounding area: Distributions, sources, and human health risks. Environment International, 2020, 139, 105741.	4.8	73
62	VOCs elimination and health risk reduction in e-waste dismantling workshop using integrated techniques of electrostatic precipitation with advanced oxidation technologies. Journal of Hazardous Materials, 2016, 302, 395-403.	6.5	71
63	Eco-toxicity and human estrogenic exposure risks from OH-initiated photochemical transformation of four phthalates in water: A computational study. Environmental Pollution, 2015, 206, 510-517.	3.7	70
64	Spore cells from BPA degrading bacteria Bacillus sp. GZB displaying high laccase activity and stability for BPA degradation. Science of the Total Environment, 2018, 640-641, 798-806.	3.9	70
65	Pollution profiles of antibiotic resistance genes associated with airborne opportunistic pathogens from typical area, Pearl River Estuary and their exposure risk to human. Environment International, 2020, 143, 105934.	4.8	70
66	Computational consideration on advanced oxidation degradation of phenolic preservative, methylparaben, in water: mechanisms, kinetics, and toxicity assessments. Journal of Hazardous Materials, 2014, 278, 417-425.	6.5	69
67	The synergic degradation mechanism and photothermocatalytic mineralization of typical VOCs over PtCu/CeO2 ordered porous catalysts under simulated solar irradiation. Journal of Catalysis, 2019, 370, 88-96.	3.1	69
68	Elimination of antibiotic-resistance bacterium and its associated/dissociative bla and aac(3)-II antibiotic-resistance genes in aqueous system via photoelectrocatalytic process. Water Research, 2017, 125, 219-226.	5.3	67
69	Removal of volatile organic compounds (VOCs) emitted from a textile dyeing wastewater treatment plant and the attenuation of respiratory health risks using a pilot-scale biofilter. Journal of Cleaner Production, 2020, 253, 120019.	4.6	66
70	Natural sphalerite nanoparticles can accelerate horizontal transfer of plasmid-mediated antibiotic-resistance genes. Environment International, 2020, 136, 105497.	4.8	66
71	In situ growth of well-aligned Ni-MOF nanosheets on nickel foam for enhanced photocatalytic degradation of typical volatile organic compounds. Nanoscale, 2020, 12, 9462-9470.	2.8	66
72	Traditional and Emerging Water Disinfection Technologies Challenging the Control of Antibiotic-Resistant Bacteria and Antibiotic Resistance Genes. ACS ES&T Engineering, 2021, 1, 1046-1064.	3.7	66

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73	Synergetic effect in degradation of formic acid using a new photoelectrochemical reactor. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 152, 155-165.	2.0	65
74	In situ photoelectrocatalytic generation of bactericide for instant inactivation and rapid decomposition of Gram-negative bacteria. Journal of Catalysis, 2011, 277, 88-94.	3.1	65
75	Enhancing tetrabromobisphenol A biodegradation in river sediment microcosms and understanding the corresponding microbial community. Environmental Pollution, 2016, 208, 796-802.	3.7	65
76	A portable miniature UV-LED-based photoelectrochemical system for determination of chemical oxygen demand in wastewater. Sensors and Actuators B: Chemical, 2009, 141, 634-640.	4.0	64
77	New theoretical insight into indirect photochemical transformation of fragrance nitro-musks: Mechanisms, eco-toxicity and health effects. Environment International, 2019, 129, 68-75.	4.8	64
78	Preparation and characterization of hydrophobic TiO2 pillared clay: The effect of acid hydrolysis catalyst and doped Pt amount on photocatalytic activity. Journal of Colloid and Interface Science, 2008, 320, 501-507.	5.0	63
79	Micro/nano-bubble assisted synthesis of Au/TiO₂@CNTs composite photocatalyst for photocatalytic degradation of gaseous styrene and its enhanced catalytic mechanism. Environmental Science: Nano, 2019, 6, 948-958.	2.2	62
80	Novel approach for removing brominated flame retardant from aquatic environments using Cu/Fe-based metal-organic frameworks: A case of hexabromocyclododecane (HBCD). Science of the Total Environment, 2018, 621, 1533-1541.	3.9	61
81	On-site and off-site atmospheric PBDEs in an electronic dismantling workshop in south China: Gas-particle partitioning and human exposure assessment. Environmental Pollution, 2011, 159, 3529-3535.	3.7	60
82	Visible-light-driven photocatalytic bacterial inactivation and the mechanism of zinc oxysulfide under LED light irradiation. Journal of Materials Chemistry A, 2016, 4, 1052-1059.	5.2	60
83	Fouling of TiO2 induced by natural organic matters during photocatalytic water treatment: Mechanisms and regeneration strategy. Applied Catalysis B: Environmental, 2021, 294, 120252.	10.8	60
84	Thiourea sole doping reagent approach for controllable N, S co-doping of pre-synthesized large-sized carbon nanospheres as electrocatalyst for oxygen reduction reaction. Carbon, 2015, 92, 339-347.	5.4	59
85	Synthesis and characterization of novel magnetic Fe3O4/polyurethane foam composite applied to the carrier of immobilized microorganisms for wastewater treatment. Research on Chemical Intermediates, 2010, 36, 277-288.	1.3	58
86	Influence of photoinduced Bi-related self-doping on the photocatalytic activity of BiOBr nanosheets. Applied Surface Science, 2017, 391, 516-524.	3.1	58
87	Comparing pollution patterns and human exposure to atmospheric PBDEs and PCBs emitted from different e-waste dismantling processes. Journal of Hazardous Materials, 2019, 369, 142-149.	6.5	58
88	Emission patterns and risk assessment of polybrominated diphenyl ethers and bromophenols in water and sediments from the Beijiang River, South China. Environmental Pollution, 2016, 219, 596-603.	3.7	57
89	Accelerated evolution of bacterial antibiotic resistance through early emerged stress responses driven by photocatalytic oxidation. Applied Catalysis B: Environmental, 2020, 269, 118829.	10.8	55
90	Comparative study on the photoelectrocatalytic inactivation of Escherichia coli K-12 and its mutant Escherichia coli BW25113 using TiO2 nanotubes as a photoanode. Applied Catalysis B: Environmental, 2014, 147, 562-570.	10.8	54

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91	Atmospheric diffusion profiles and health risks of typical VOC: Numerical modelling study. Journal of Cleaner Production, 2020, 275, 122982.	4.6	54
92	Pollution profiles of volatile organic compounds from different urban functional areas in Guangzhou China based on GC/MS and PTR-TOF-MS: Atmospheric environmental implications. Atmospheric Environment, 2019, 214, 116843.	1.9	52
93	Recent Patents on Immobilized Microorganism Technology and Its Engineering Application in Wastewater Treatment. Recent Patents on Engineering, 2008, 2, 28-35.	0.3	50
94	Visible-light-driven inactivation of Escherichia coli K-12 over thermal treated natural pyrrhotite. Applied Catalysis B: Environmental, 2015, 176-177, 749-756.	10.8	50
95	Unveiling the photoelectrocatalytic inactivation mechanism of Escherichia coli : Convincing evidence from responses of parent and anti-oxidation single gene knockout mutants. Water Research, 2016, 88, 135-143.	5.3	50
96	Bacterial response mechanism during biofilm growth on different metal material substrates: EPS characteristics, oxidative stress and molecular regulatory network analysis. Environmental Research, 2020, 185, 109451.	3.7	50
97	Mechanistic study of the visible-light-driven photocatalytic inactivation of bacteria by graphene oxideâ€“zinc oxide composite. Applied Surface Science, 2015, 358, 137-145.	3.1	48
98	Interaction between bacterial cell membranes and nano-TiO2 revealed by two-dimensional FTIR correlation spectroscopy using bacterial ghost as a model cell envelope. Water Research, 2017, 118, 104-113.	5.3	48
99	Controlled growth of CuO/Cu2O hollow microsphere composites as efficient visible-light-active photocatalysts. Applied Catalysis A: General, 2016, 521, 34-41.	2.2	47
100	Using an integrated decontamination technique to remove VOCs and attenuate health risks from an e-waste dismantling workshop. Chemical Engineering Journal, 2017, 318, 57-63.	6.6	47
101	Enhanced catalytic elimination of typical VOCs over ZnCoOx catalyst derived from in situ pyrolysis of ZnCo bimetallic zeolitic imidazolate frameworks. Applied Catalysis B: Environmental, 2022, 308, 121212.	10.8	47
102	Comparison of the removal of ethanethiol in twin-biotrickling filters inoculated with strain RG-1 and B350 mixed microorganisms. Journal of Hazardous Materials, 2010, 183, 372-380.	6.5	46
103	Synthesis and characterization of <scp>TiO₂</scp> nanotube photoanode and its application in photoelectrocatalytic degradation of model environmental pharmaceuticals. Journal of Chemical Technology and Biotechnology, 2013, 88, 1488-1497.	1.6	46
104	Enhanced simultaneous PEC eradication of bacteria and antibiotics by facilely fabricated high-activity {001} facets TiO2 mounted onto TiO2 nanotubular photoanode. Water Research, 2016, 101, 597-605.	5.3	46
105	Photocatalytic ozonation mechanism of gaseous n-hexane on MO_xâ€“TiO₂â€“foam nickel composite (M = Cu, Mn, Ag): unveiling the role of Ë™OH and Ë™O₂^{â^'}. Environmental Science: Nano, 2019, 6, 959-969.	2.2	46
106	Adsorption Mechanisms of Typical Carbonyl-Containing Volatile Organic Compounds on Anatase TiO₂ (001) Surface: A DFT Investigation. Journal of Physical Chemistry C, 2017, 121, 13717-13722.	1.5	46
107	Treatment of organic waste gas in a paint plant by combined technique of biotrickling filtration with photocatalytic oxidation. Chemical Engineering Journal, 2012, 200-202, 645-653.	6.6	45
108	Fabrication of Au/TiO 2 nanowires@carbon fiber paper ternary composite for visible-light photocatalytic degradation of gaseous styrene. Catalysis Today, 2017, 281, 621-629.	2.2	45

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109	Visible Light-Induced Marine Bacterial Inactivation in Seawater by an In Situ Photo-Fenton System without Additional Oxidants: Implications for Ballast Water Sterilization. ACS ES&T Water, 2021, 1, 1483-1494.	2.3	45
110	Biodegradation of ethanethiol in aqueous medium by a new Lysinibacillus sphaericus strain RG-1 isolated from activated sludge. Biodegradation, 2010, 21, 1057-1066.	1.5	44
111	Accelerated biodegradation of BPA in water-sediment microcosms with Bacillus sp. GZB and the associated bacterial community structure. Chemosphere, 2017, 184, 120-126.	4.2	44
112	Seasonal profiles of atmospheric PAHs in an e-waste dismantling area and their associated health risk considering bioaccessible PAHs in the human lung. Science of the Total Environment, 2019, 683, 371-379.	3.9	44
113	Density functional theory investigation of the enhanced adsorption mechanism and potential catalytic activity for formaldehyde degradation on Al-decorated C2N monolayer. Chinese Journal of Catalysis, 2019, 40, 664-672.	6.9	44
114	Co-exposure and health risks of parabens, bisphenols, triclosan, phthalate metabolites and hydroxyl polycyclic aromatic hydrocarbons based on simultaneous detection in urine samples from guangzhou, south China. Environmental Pollution, 2021, 272, 115990.	3.7	44
115	Synthesis and characterization of novel SiO2 and TiO2 co-pillared montmorillonite composite for adsorption and photocatalytic degradation of hydrophobic organic pollutants in water. Catalysis Today, 2011, 164, 364-369.	2.2	43
116	Photocatalytic degradation and detoxification of o-chloroaniline in the gas phase: Mechanistic consideration and mutagenicity assessment of its decomposed gaseous intermediate mixture. Applied Catalysis B: Environmental, 2011, 102, 140-146.	10.8	43
117	Bioaccumulation and ecotoxicity increase during indirect photochemical transformation of polycyclic musk tonalide: A modeling study. Water Research, 2016, 105, 47-55.	5.3	43
118	OH-Initiated Oxidation of Acetylacetone: Implications for Ozone and Secondary Organic Aerosol Formation. Environmental Science & Technology, 2018, 52, 11169-11177.	4.6	43
119	Volatile organic compounds in an e-waste dismantling region: From spatial-seasonal variation to human health impact. Chemosphere, 2021, 275, 130022.	4.2	42
120	Chlorinated paraffins in the indoor and outdoor atmospheric particles from the Pearl River Delta: Characteristics, sources, and human exposure risks. Science of the Total Environment, 2019, 650, 1041-1049.	3.9	41
121	Comparative study of the eliminating of waste gas containing toluene in twin biotrickling filters packed with molecular sieve and polyurethane foam. Journal of Hazardous Materials, 2009, 167, 275-281.	6.5	40
122	Mechanistic study and mutagenicity assessment of intermediates in photocatalytic degradation of gaseous toluene. Chemosphere, 2010, 78, 313-318.	4.2	40
123	Photoelectrocatalytic degradation of oxalic acid in aqueous phase with a novel three-dimensional electrode-hollow quartz tube photoelectrocatalytic reactor. Applied Catalysis A: General, 2005, 279, 247-256.	2.2	39
124	Photocatalytic degradation of dimethyl phthalate ester using novel hydrophobic TiO2 pillared montmorillonite photocatalyst. Research on Chemical Intermediates, 2008, 34, 67-83.	1.3	39
125	Metagenomic profiles and health risks of pathogens and antibiotic resistance genes in various industrial wastewaters and the associated receiving surface water. Chemosphere, 2021, 283, 131224.	4.2	39
126	Synthesis of TiO2 hollow sphere multimer photocatalyst by etching titanium plate and its application to the photocatalytic decomposition of gaseous styrene. Chemical Engineering Journal, 2013, 228, 834-842.	6.6	38

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127	Anatase TiO2 mesocrystals with exposed (001) surface for enhanced photocatalytic decomposition capability toward gaseous styrene. Catalysis Today, 2014, 224, 216-224.	2.2	38
128	Photoelectrocatalytic inactivation mechanism of E. coli DH5Î± (TET) and synergistic degradation of corresponding antibiotics in water. Water Research, 2022, 215, 118240.	5.3	38
129	Comparative studies of photocatalytic and photoelectrocatalytic inactivation of E. coli in presence of halides. Applied Catalysis B: Environmental, 2013, 140-141, 225-232.	10.8	37
130	Dual Roles of Capsular Extracellular Polymeric Substances in Photocatalytic Inactivation of Escherichia coli: Comparison of E. coli BW25113 and Isogenic Mutants. Applied and Environmental Microbiology, 2015, 81, 5174-5183.	1.4	37
131	The health risk attenuation by simultaneous elimination of atmospheric VOCs and POPs from an e-waste dismantling workshop by an integrated de-dusting with decontamination technique. Chemical Engineering Journal, 2016, 301, 299-305.	6.6	37
132	Comparative elimination of dimethyl disulfide by maifanite and ceramic-packed biotrickling filters and their response to microbial community. Bioresource Technology, 2016, 202, 76-83.	4.8	36
133	Malodorous gases production from food wastes decomposition by indigenous microorganisms. Science of the Total Environment, 2020, 717, 137175.	3.9	36
134	The pollution profiles and human exposure risks of chlorinated and brominated PAHs in indoor dusts from e-waste dismantling workshops: Comparison of GCâ€“MS, GCâ€“MS/MS and GCâ€Ã—â€GCâ€“MS/MS determination methods. Journal of Hazardous Materials, 2020, 394, 122573.	6.5	36
135	Genetic studies of the role of fatty acid and coenzyme A in photocatalytic inactivation of Escherichia coli. Water Research, 2012, 46, 3951-3957.	5.3	35
136	Silver sulfide nanoparticles in aqueous environments: formation, transformation and toxicity. Environmental Science: Nano, 2019, 6, 1674-1687.	2.2	35
137	Insights into biomonitoring of human exposure to polycyclic aromatic hydrocarbons with hair analysis: A case study in e-waste recycling area. Environment International, 2020, 136, 105432.	4.8	35
138	Adsorption and desorption mechanism of aromatic VOCs onto porous carbon adsorbents for emission control and resource recovery: recent progress and challenges. Environmental Science: Nano, 2022, 9, 81-104.	2.2	35
139	Biodegradation kinetics and mechanism of 2,4,6-tribromophenol by Bacillus sp. GZT: A phenomenon of xenobiotic methylation during debromination. Bioresource Technology, 2012, 110, 153-159.	4.8	34
140	Comparative study of visible-light-driven photocatalytic inactivation of two different wastewater bacteria by natural sphalerite. Chemical Engineering Journal, 2013, 234, 43-48.	6.6	34
141	N-type Cu2O Film for Photocatalytic and Photoelectrocatalytic Processes: Its stability and Inactivation of E. coli. Electrochimica Acta, 2015, 153, 583-593.	2.6	34
142	Differences in photoelectrocatalytic inactivation processes between E. coli and its isogenic single gene knockoff mutants: Destruction of membrane framework or associated proteins?. Applied Catalysis B: Environmental, 2016, 188, 360-366.	10.8	34
143	Field study of PAHs with their derivatives emitted from e-waste dismantling processes and their comprehensive human exposure implications. Environment International, 2020, 144, 106059.	4.8	34
144	Formation mechanisms of viable but nonculturable bacteria through induction by light-based disinfection and their antibiotic resistance gene transfer risk: A review. Critical Reviews in Environmental Science and Technology, 2022, 52, 3651-3688.	6.6	34

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145	Spatial and temporal distribution characteristics and ozone formation potentials of volatile organic compounds from three typical functional areas in China. Environmental Research, 2020, 183, 109141.	3.7	34
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