

Taicheng An

List of Publications by Year in descending order

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Version: 2024-02-01

415
papers

22,412
citations

7069

78
h-index

17546

121
g-index

422
all docs

422
docs citations

422
times ranked

17929
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics and mechanism of advanced oxidation processes (AOPs) in degradation of ciprofloxacin in water. <i>Applied Catalysis B: Environmental</i> , 2010, 94, 288-294.	10.8	486
2	Recent advances in VOC elimination by catalytic oxidation technology onto various nanoparticles catalysts: a critical review. <i>Applied Catalysis B: Environmental</i> , 2021, 281, 119447.	10.8	467
3	Enhanced visible-light-driven photocatalytic inactivation of <i>Escherichia coli</i> using g-C ₃ N ₄ /TiO ₂ hybrid photocatalyst synthesized using a hydrothermal-calcination approach. <i>Water Research</i> , 2015, 86, 17-24.	5.3	323
4	Earth-abundant Ni ₂ P/g-C ₃ N ₄ lamellar nanohybrids for enhanced photocatalytic hydrogen evolution and bacterial inactivation under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2017, 217, 570-580.	10.8	311
5	Rate Constants and Mechanisms of the Reactions of Cl [•] and Cl ₂ ^{•-} with Trace Organic Contaminants. <i>Environmental Science & Technology</i> , 2019, 53, 11170-11182.	4.6	277
6	Persistent free radicals in carbon-based materials on transformation of refractory organic contaminants (ROCs) in water: A critical review. <i>Water Research</i> , 2018, 137, 130-143.	5.3	255
7	Visible-Light-Driven Photocatalytic Inactivation of <i>E. coli</i> K-12 by Bismuth Vanadate Nanotubes: Bactericidal Performance and Mechanism. <i>Environmental Science & Technology</i> , 2012, 46, 4599-4606.	4.6	254
8	Metal-organic framework-based nanomaterials for adsorption and photocatalytic degradation of gaseous pollutants: recent progress and challenges. <i>Environmental Science: Nano</i> , 2019, 6, 1006-1025.	2.2	245
9	Photocatalytic nanomaterials for solar-driven bacterial inactivation: recent progress and challenges. <i>Environmental Science: Nano</i> , 2017, 4, 782-799.	2.2	239
10	Preparation and photocatalytic properties of a nanometer ZnO-SnO ₂ coupled oxide. <i>Applied Catalysis A: General</i> , 2004, 260, 215-222.	2.2	224
11	Boron doped BiOBr nanosheets with enhanced photocatalytic inactivation of <i>Escherichia coli</i> . <i>Applied Catalysis B: Environmental</i> , 2016, 192, 35-45.	10.8	213
12	Enhanced photocatalytic inactivation of <i>Escherichia coli</i> 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. <i>Applied Catalysis B: Environmental</i> , 2017, 214, 23-33.	10.8	210
13	Photocatalytic hydrogen evolution and bacterial inactivation utilizing sonochemical-synthesized g-C ₃ N ₄ /red phosphorus hybrid nanosheets as a wide-spectral-responsive photocatalyst: The role of type I band alignment. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 126-135.	10.8	209
14	Naturally Occurring Sphalerite As a Novel Cost-Effective Photocatalyst for Bacterial Disinfection under Visible Light. <i>Environmental Science & Technology</i> , 2011, 45, 5689-5695.	4.6	202
15	Nature-based catalyst for visible-light-driven photocatalytic CO ₂ reduction. <i>Energy and Environmental Science</i> , 2018, 11, 2382-2389.	15.6	198
16	Introduce oxygen vacancies into CeO ₂ catalyst for enhanced coke resistance during photothermocatalytic oxidation of typical VOCs. <i>Applied Catalysis B: Environmental</i> , 2020, 269, 118755.	10.8	184
17	Activation of persulfates by natural magnetic pyrrhotite for water disinfection: Efficiency, mechanisms, and stability. <i>Water Research</i> , 2017, 112, 236-247.	5.3	176
18	Design and architecture of metal organic frameworks for visible light enhanced hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2017, 218, 555-569.	10.8	173

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19	Recent progress in g-C ₃ N ₄ quantum dots: synthesis, properties and applications in photocatalytic degradation of organic pollutants. <i>Journal of Materials Chemistry A</i> , 2020, 8, 485-502.	5.2	173
20	Photocatalytic degradation kinetics and mechanism of environmental pharmaceuticals in aqueous suspension of TiO ₂ : A case of β -blockers. <i>Journal of Hazardous Materials</i> , 2010, 179, 834-839.	6.5	171
21	Photocatalytic degradation kinetics and mechanism of environmental pharmaceuticals in aqueous suspension of TiO ₂ : A case of sulfa drugs. <i>Catalysis Today</i> , 2010, 153, 200-207.	2.2	171
22	CdIn ₂ S ₄ microsphere as an efficient visible-light-driven photocatalyst for bacterial inactivation: Synthesis, characterizations and photocatalytic inactivation mechanisms. <i>Applied Catalysis B: Environmental</i> , 2013, 129, 482-490.	10.8	170
23	Systematic Approach to In-Depth Understanding of Photoelectrocatalytic Bacterial Inactivation Mechanisms by Tracking the Decomposed Building Blocks. <i>Environmental Science & Technology</i> , 2014, 48, 9412-9419.	4.6	169
24	Visible-light-driven BiOBr nanosheets for highly facet-dependent photocatalytic inactivation of <i>Escherichia coli</i> . <i>Journal of Materials Chemistry A</i> , 2015, 3, 15148-15155.	5.2	165
25	Hydrothermal Carbon-Mediated Fenton-Like Reaction Mechanism in the Degradation of Alachlor: Direct Electron Transfer from Hydrothermal Carbon to Fe(III). <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17115-17124.	4.0	163
26	Advanced Oxidation Kinetics and Mechanism of Preservative Propylparaben Degradation in Aqueous Suspension of TiO ₂ and Risk Assessment of Its Degradation Products. <i>Environmental Science & Technology</i> , 2013, 47, 2704-2712.	4.6	161
27	Mechanism, kinetics and toxicity assessment of OH-initiated transformation of triclosan in aquatic environments. <i>Water Research</i> , 2014, 49, 360-370.	5.3	161
28	Mechanistic Considerations for the Advanced Oxidation Treatment of Fluoroquinolone Pharmaceutical Compounds using TiO ₂ Heterogeneous Catalysis. <i>Journal of Physical Chemistry A</i> , 2010, 114, 2569-2575.	1.1	160
29	Comparative study of visible-light-driven photocatalytic mechanisms of dye decolorization and bacterial disinfection by Ni-codoped TiO ₂ microspheres: The role of different reactive species. <i>Applied Catalysis B: Environmental</i> , 2011, 108-109, 108-116.	10.8	158
30	Pollution characteristics and health risk assessment of volatile organic compounds emitted from different plastic solid waste recycling workshops. <i>Environment International</i> , 2015, 77, 85-94.	4.8	157
31	Kinetics, degradation pathway and reaction mechanism of advanced oxidation of 4-nitrophenol in water by a UV/H ₂ O ₂ process. <i>Journal of Chemical Technology and Biotechnology</i> , 2003, 78, 788-794.	1.6	153
32	Insight into the effect of lignocellulosic biomass source on the performance of biochar as persulfate activator for aqueous organic pollutants remediation: Epicarp and mesocarp of citrus peels as examples. <i>Journal of Hazardous Materials</i> , 2020, 399, 123043.	6.5	152
33	Reassessing the atmospheric oxidation mechanism of toluene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8169-8174.	3.3	151
34	Visible-light-driven photocatalytic inactivation of <i>E. coli</i> by Ag/AgX-CNTs (X=Cl, Br, I) plasmonic photocatalysts: Bacterial performance and deactivation mechanism. <i>Applied Catalysis B: Environmental</i> , 2014, 158-159, 301-307.	10.8	149
35	Can environmental pharmaceuticals be photocatalytically degraded and completely mineralized in water using g-C ₃ N ₄ /TiO ₂ under visible light irradiation? Implications of persistent toxic intermediates. <i>Applied Catalysis B: Environmental</i> , 2016, 180, 726-732.	10.8	148
36	Catalyst-free activation of persulfate by visible light for water disinfection: Efficiency and mechanisms. <i>Water Research</i> , 2019, 157, 106-118.	5.3	145

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37	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
38	Kinetics and Mechanism of OH^{\cdot} Mediated Degradation of Dimethyl Phthalate in Aqueous Solution: Experimental and Theoretical Studies. Environmental Science & Technology, 2014, 48, 641-648.	4.6	144
39	Photocatalytic degradation kinetics and mechanism of antivirus drug-lamivudine in TiO ₂ dispersion. Journal of Hazardous Materials, 2011, 197, 229-236.	6.5	141
40	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
41	Peroxydisulfate activation by positively polarized carbocatalyst for enhanced removal of aqueous organic pollutants. Water Research, 2019, 166, 115043.	5.3	137
42	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
43	Hydrothermal Transformation of Dried Grass into Graphitic Carbon-Based High Performance Electrocatalyst for Oxygen Reduction Reaction. Small, 2014, 10, 3371-3378.	5.2	135
44	A review of bismuth-based photocatalysts for antibiotic degradation: Insight into the photocatalytic degradation performance, pathways and relevant mechanisms. Environmental Research, 2021, 199, 111360.	3.7	135
45	Synthesis of Carbon Nanotube-Anatase TiO ₂ Sub-micrometer-sized Sphere Composite Photocatalyst for Synergistic Degradation of Gaseous Styrene. ACS Applied Materials & Interfaces, 2012, 4, 5988-5996.	4.0	128
46	Reactive Nitrogen Species Are Also Involved in the Transformation of Micropollutants by the UV/Monochloramine Process. Environmental Science & Technology, 2019, 53, 11142-11152.	4.6	127
47	Synergistic photocatalytic inactivation mechanisms of bacteria by graphene sheets grafted plasmonic Ag AgX (X=Cl, Br, I) composite photocatalyst under visible light irradiation. Water Research, 2016, 99, 149-161.	5.3	122
48	Characterization and the photocatalytic activity of TiO ₂ immobilized hydrophobic montmorillonite photocatalysts. Catalysis Today, 2008, 139, 69-76.	2.2	117
49	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
50	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
51	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
52	Highly efficient visible-light-driven photocatalytic degradation of VOCs by CO ₂ -assisted synthesized mesoporous carbon confined mixed-phase TiO ₂ nanocomposites derived from MOFs. Applied Catalysis B: Environmental, 2019, 250, 337-346.	10.8	113
53	Novel preparation of nanosized ZnO-SnO ₂ with high photocatalytic activity by homogeneous co-precipitation method. Materials Letters, 2005, 59, 3641-3644.	1.3	110
54	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

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55	Visible-light-enhanced photothermocatalytic activity of ABO ₃ -type perovskites for the decontamination of gaseous styrene. <i>Applied Catalysis B: Environmental</i> , 2017, 209, 146-154.	10.8	108
56	Enhanced Visible-Light-Driven Photocatalytic Bacterial Inactivation by Ultrathin Carbon-Coated Magnetic Cobalt Ferrite Nanoparticles. <i>Environmental Science & Technology</i> , 2018, 52, 4774-4784.	4.6	108
57	Novel carbon and defects co-modified g-C ₃ N ₄ for highly efficient photocatalytic degradation of bisphenol A under visible light. <i>Journal of Hazardous Materials</i> , 2020, 384, 121323.	6.5	108
58	One-step process for debromination and aerobic mineralization of tetrabromobisphenol-A by a novel <i>Ochrobactrum</i> sp. T isolated from an e-waste recycling site. <i>Bioresource Technology</i> , 2011, 102, 9148-9154.	4.8	107
59	Metal-organic frameworks derived C/TiO ₂ for visible light photocatalysis: Simple synthesis and contribution of carbon species. <i>Journal of Hazardous Materials</i> , 2021, 403, 124048.	6.5	105
60	Optimization synthesis of carbon nanotubes-anatase TiO ₂ composite photocatalyst by response surface methodology for photocatalytic degradation of gaseous styrene. <i>Applied Catalysis B: Environmental</i> , 2012, 123-124, 69-77.	10.8	102
61	Cross-linked ZnIn ₂ S ₄ /rGO composite photocatalyst for sunlight-driven photocatalytic degradation of 4-nitrophenol. <i>Applied Catalysis B: Environmental</i> , 2015, 168-169, 266-273.	10.8	101
62	Performance of metal-organic frameworks for the adsorptive removal of potentially toxic elements in a water system: a critical review. <i>RSC Advances</i> , 2019, 9, 34359-34376.	1.7	101
63	Photocatalytic degradation and mineralization mechanism and toxicity assessment of antivirus drug acyclovir: Experimental and theoretical studies. <i>Applied Catalysis B: Environmental</i> , 2015, 164, 279-287.	10.8	100
64	Hydrothermal Splitting of Titanate Fibers to Single-Crystalline TiO ₂ Nanostructures with Controllable Crystalline Phase, Morphology, Microstructure, and Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8809-8818.	1.5	96
65	Biodegradation and detoxification of bisphenol A with one newly-isolated strain <i>Bacillus</i> sp. GZB: Kinetics, mechanism and estrogenic transition. <i>Bioresource Technology</i> , 2012, 114, 224-230.	4.8	94
66	Assessment of toxic effects of triclosan on the swordtail fish (<i>Xiphophorus helleri</i>) by a multi-biomarker approach. <i>Chemosphere</i> , 2013, 90, 1281-1288.	4.2	93
67	Novel two-dimensional crystalline carbon nitrides beyond g-C ₃ N ₄ : structure and applications. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17-33.	5.2	92
68	Single atom catalytic oxidation mechanism of formaldehyde on Al doped graphene at room temperature. <i>Chinese Chemical Letters</i> , 2020, 31, 1966-1969.	4.8	91
69	Adsorption mechanisms of different volatile organic compounds onto pristine C ₂ N and Al-doped C ₂ N monolayer: A DFT investigation. <i>Applied Surface Science</i> , 2018, 450, 484-491.	3.1	90
70	Visible light activation of persulfate by magnetic hydrochar for bacterial inactivation: Efficiency, recyclability and mechanisms. <i>Water Research</i> , 2020, 176, 115746.	5.3	89
71	Source identification and health risk of polycyclic aromatic hydrocarbons associated with electronic dismantling in Guiyu town, South China. <i>Journal of Hazardous Materials</i> , 2011, 192, 1-7.	6.5	87
72	Adsorption and degradation of model volatile organic compounds by a combined titania-montmorillonite-silica photocatalyst. <i>Journal of Hazardous Materials</i> , 2011, 190, 416-423.	6.5	85

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73	Preparation and characterization of highly active mesoporous TiO ₂ photocatalysts by hydrothermal synthesis under weak acid conditions. <i>Microporous and Mesoporous Materials</i> , 2009, 124, 197-203.	2.2	84
74	OH radicals determined photocatalytic degradation mechanisms of gaseous styrene in TiO ₂ system under 254 nm versus 185 nm irradiation: Combined experimental and theoretical studies. <i>Applied Catalysis B: Environmental</i> , 2019, 257, 117912.	10.8	84
75	Photocatalytic degradation mechanism of gaseous styrene over Au/TiO ₂ @CNTs: Relevance of superficial state with deactivation mechanism. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118969.	10.8	84
76	Photocatalytic degradation of mixed gaseous carbonyl compounds at low level on adsorptive TiO ₂ /SiO ₂ photocatalyst using a fluidized bed reactor. <i>Chemosphere</i> , 2006, 64, 423-431.	4.2	83
77	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. <i>Journal of Hazardous Materials</i> , 2013, 250-251, 147-154.	6.5	83
78	Structural and photocatalytic degradation characteristics of hydrothermally treated mesoporous TiO ₂ . <i>Applied Catalysis A: General</i> , 2008, 350, 237-243.	2.2	81
79	Preparation of a high-activity ZnO/TiO ₂ photocatalyst via homogeneous hydrolysis method with low temperature crystallization. <i>Materials Letters</i> , 2010, 64, 1883-1886.	1.3	81
80	Enhancement of photocatalytic activity of nano-scale TiO ₂ particles co-doped by rare earth elements and heteropolyacids. <i>Journal of Colloid and Interface Science</i> , 2012, 380, 121-127.	5.0	81
81	Natural magnetic pyrrhotite as a high-efficient persulfate activator for micropollutants degradation: Radicals identification and toxicity evaluation. <i>Journal of Hazardous Materials</i> , 2017, 340, 435-444.	6.5	81
82	Enhanced visible-light photocatalytic activity to volatile organic compounds degradation and deactivation resistance mechanism of titania confined inside a metal-organic framework. <i>Journal of Colloid and Interface Science</i> , 2018, 522, 174-182.	5.0	81
83	In Situ Photoelectrochemical Chloride Activation Using a WO ₃ Electrode for Oxidative Treatment with Simultaneous H ₂ Evolution under Visible Light. <i>Environmental Science & Technology</i> , 2019, 53, 9926-9936.	4.6	80
84	Theoretical exploration of VOCs removal mechanism by carbon nanotubes through persulfate-based advanced oxidation processes: Adsorption and catalytic oxidation. <i>Journal of Hazardous Materials</i> , 2021, 405, 124684.	6.5	78
85	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. <i>Chinese Journal of Catalysis</i> , 2020, 41, 1603-1612.	6.9	78
86	Pollution profiles and risk assessment of PBDEs and phenolic brominated flame retardants in water environments within a typical electronic waste dismantling region. <i>Environmental Geochemistry and Health</i> , 2015, 37, 457-473.	1.8	77
87	DBP formation and toxicity alteration during UV/chlorine treatment of wastewater and the effects of ammonia and bromide. <i>Water Research</i> , 2021, 188, 116549.	5.3	77
88	AgInS ₂ /In ₂ S ₃ heterostructure sensitization of Escherichia coli for sustainable hydrogen production. <i>Nano Energy</i> , 2018, 46, 234-240.	8.2	76
89	The source and transport of bioaerosols in the air: A review. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 15, 44.	3.3	76
90	Enhanced photocatalytic mechanism of Ag ₃ PO ₄ nano-sheets using MS ₂ (M = Mo, W)/rGO hybrids as co-catalysts for 4-nitrophenol degradation in water. <i>Applied Catalysis B: Environmental</i> , 2018, 232, 11-18.	10.8	75

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91	Determination of Iodide via Direct Fluorescence Quenching at Nitrogen-Doped Carbon Quantum Dot Fluorophores. <i>Environmental Science and Technology Letters</i> , 2014, 1, 87-91.	3.9	74
92	VOCs elimination and health risk reduction in e-waste dismantling workshop using integrated techniques of electrostatic precipitation with advanced oxidation technologies. <i>Journal of Hazardous Materials</i> , 2016, 302, 395-403.	6.5	71
93	Eco-toxicity and human estrogenic exposure risks from OH-initiated photochemical transformation of four phthalates in water: A computational study. <i>Environmental Pollution</i> , 2015, 206, 510-517.	3.7	70
94	Spore cells from BPA degrading bacteria <i>Bacillus</i> sp. GZB displaying high laccase activity and stability for BPA degradation. <i>Science of the Total Environment</i> , 2018, 640-641, 798-806.	3.9	70
95	Pollution profiles of antibiotic resistance genes associated with airborne opportunistic pathogens from typical area, Pearl River Estuary and their exposure risk to human. <i>Environment International</i> , 2020, 143, 105934.	4.8	70
96	Computational consideration on advanced oxidation degradation of phenolic preservative, methylparaben, in water: mechanisms, kinetics, and toxicity assessments. <i>Journal of Hazardous Materials</i> , 2014, 278, 417-425.	6.5	69
97	The synergic degradation mechanism and photothermocatalytic mineralization of typical VOCs over PtCu/CeO ₂ ordered porous catalysts under simulated solar irradiation. <i>Journal of Catalysis</i> , 2019, 370, 88-96.	3.1	69
98	Degradation of aniline by electrochemical activation of peroxydisulfate at MWCNT cathode: The proofed concept of nonradical oxidation process. <i>Chemosphere</i> , 2018, 206, 432-438.	4.2	68
99	Defect-Dependent Near-Infrared-Driven Photocatalytic Bacterial Inactivation by Defective Bi ₂ S ₃ nanorods. <i>ChemSusChem</i> , 2019, 12, 890-897.	3.6	68
100	Elimination of antibiotic-resistance bacterium and its associated/dissociative bla and aac(3)-II antibiotic-resistance genes in aqueous system via photoelectrocatalytic process. <i>Water Research</i> , 2017, 125, 219-226.	5.3	67
101	Ag ₂ MoO ₄ nanoparticles encapsulated in g-C ₃ N ₄ for sunlight photodegradation of pollutants. <i>Catalysis Today</i> , 2018, 315, 205-212.	2.2	66
102	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. <i>Journal of Cleaner Production</i> , 2020, 253, 120019.	4.6	66
103	Natural sphalerite nanoparticles can accelerate horizontal transfer of plasmid-mediated antibiotic-resistance genes. <i>Environment International</i> , 2020, 136, 105497.	4.8	66
104	<i>In situ</i> growth of well-aligned Ni-MOF nanosheets on nickel foam for enhanced photocatalytic degradation of typical volatile organic compounds. <i>Nanoscale</i> , 2020, 12, 9462-9470.	2.8	66
105	Traditional and Emerging Water Disinfection Technologies Challenging the Control of Antibiotic-Resistant Bacteria and Antibiotic Resistance Genes. <i>ACS ES&T Engineering</i> , 2021, 1, 1046-1064.	3.7	66
106	Synergetic effect in degradation of formic acid using a new photoelectrochemical reactor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002, 152, 155-165.	2.0	65
107	Photoelectrocatalytic degradation of quinoline with a novel three-dimensional electrode-packed bed photocatalytic reactor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 161, 233-242.	2.0	65
108	In situ photoelectrocatalytic generation of bactericide for instant inactivation and rapid decomposition of Gram-negative bacteria. <i>Journal of Catalysis</i> , 2011, 277, 88-94.	3.1	65

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109	Enhancing tetrabromobisphenol A biodegradation in river sediment microcosms and understanding the corresponding microbial community. <i>Environmental Pollution</i> , 2016, 208, 796-802.	3.7	65
110	New theoretical insight into indirect photochemical transformation of fragrance nitro-musks: Mechanisms, eco-toxicity and health effects. <i>Environment International</i> , 2019, 129, 68-75.	4.8	64
111	Preparation and characterization of hydrophobic TiO ₂ pillared clay: The effect of acid hydrolysis catalyst and doped Pt amount on photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2008, 320, 501-507.	5.0	63
112	Oily sludge derived carbons as peroxymonosulfate activators for removing aqueous organic pollutants: Performances and the key role of carbonyl groups in electron-transfer mechanism. <i>Journal of Hazardous Materials</i> , 2021, 414, 125552.	6.5	63
113	Effects of anions on the photocatalytic and photoelectrocatalytic degradation of reactive dye in a packed-bed reactor. <i>Journal of Chemical Technology and Biotechnology</i> , 2005, 80, 223-229.	1.6	62
114	Fabrication of Highly Ordered TiO ₂ Nanorod/Nanotube Adjacent Arrays for Photoelectrochemical Applications. <i>Langmuir</i> , 2010, 26, 11226-11232.	1.6	62
115	Degradation of polycyclic aromatic hydrocarbons (PAHs) in textile dyeing sludge with ultrasound and Fenton processes: Effect of system parameters and synergistic effect study. <i>Journal of Hazardous Materials</i> , 2016, 307, 7-16.	6.5	62
116	Micro/nano-bubble assisted synthesis of Au/TiO ₂ @CNTs composite photocatalyst for photocatalytic degradation of gaseous styrene and its enhanced catalytic mechanism. <i>Environmental Science: Nano</i> , 2019, 6, 948-958.	2.2	62
117	Formation and Optical Properties of Brown Carbon from Small α -Dicarbonyls and Amines. <i>Environmental Science & Technology</i> , 2019, 53, 117-126.	4.6	62
118	Hierarchical zeolite enveloping Pd-CeO ₂ nanowires: An efficient adsorption/catalysis bifunctional catalyst for low temperature propane total degradation. <i>Chemical Engineering Journal</i> , 2020, 393, 124717.	6.6	62
119	Novel approach for removing brominated flame retardant from aquatic environments using Cu/Fe-based metal-organic frameworks: A case of hexabromocyclododecane (HBCD). <i>Science of the Total Environment</i> , 2018, 621, 1533-1541.	3.9	61
120	Biofiltration treatment of odors from municipal solid waste treatment plants. <i>Waste Management</i> , 2009, 29, 2051-2058.	3.7	60
121	On-site and off-site atmospheric PBDEs in an electronic dismantling workshop in south China: Gas-particle partitioning and human exposure assessment. <i>Environmental Pollution</i> , 2011, 159, 3529-3535.	3.7	60
122	Visible-light-driven photocatalytic bacterial inactivation and the mechanism of zinc oxysulfide under LED light irradiation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1052-1059.	5.2	60
123	Criteria of active sites in nonradical persulfate activation process from integrated experimental and theoretical investigations: boron-nitrogen-co-doped nanocarbon-mediated peroxydisulfate activation as an example. <i>Environmental Science: Nano</i> , 2020, 7, 1899-1911.	2.2	60
124	Fouling of TiO ₂ induced by natural organic matters during photocatalytic water treatment: Mechanisms and regeneration strategy. <i>Applied Catalysis B: Environmental</i> , 2021, 294, 120252.	10.8	60
125	Thiourea sole doping reagent approach for controllable N, S co-doping of pre-synthesized large-sized carbon nanospheres as electrocatalyst for oxygen reduction reaction. <i>Carbon</i> , 2015, 92, 339-347.	5.4	59
126	Density functional theory calculations on single atomic catalysis: Ti-decorated Ti ₃ C ₂ O ₂ monolayer (MXene) for HCHO oxidation. <i>Chinese Journal of Catalysis</i> , 2020, 41, 1633-1644.	6.9	59

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127	Synthesis and characterization of novel magnetic Fe ₃ O ₄ /polyurethane foam composite applied to the carrier of immobilized microorganisms for wastewater treatment. <i>Research on Chemical Intermediates</i> , 2010, 36, 277-288.	1.3	58
128	Comparing pollution patterns and human exposure to atmospheric PBDEs and PCBs emitted from different e-waste dismantling processes. <i>Journal of Hazardous Materials</i> , 2019, 369, 142-149.	6.5	58
129	Visible light active pure rutile TiO ₂ photoanodes with 100% exposed pyramid-shaped (111) surfaces. <i>Nano Research</i> , 2012, 5, 762-769.	5.8	57
130	Emission patterns and risk assessment of polybrominated diphenyl ethers and bromophenols in water and sediments from the Beijing River, South China. <i>Environmental Pollution</i> , 2016, 219, 596-603.	3.7	57
131	Accelerated Fenton-like kinetics by visible-light-driven catalysis over iron(III) porphyrin functionalized zirconium MOF: effective promotion on the degradation of organic contaminants. <i>Environmental Science: Nano</i> , 2019, 6, 2652-2661.	2.2	57
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