Chun Hu

List of Publications by Year
in descending order

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209	15,860	13099	19190
papers	citations	68 h-index	118 g-index

214	214	214	12237
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effective Photocatalytic Disinfection of E. coli K-12 Using AgBrâ^'Agâ^'Bi₂WO₆ Nanojunction System Irradiated by Visible Light: The Role of Diffusing Hydroxyl Radicals. Environmental Science & Technology, 2010, 44, 1392-1398.	10.0	557
2	Ag/AgBr/TiO2Visible Light Photocatalyst for Destruction of Azodyes and Bacteria. Journal of Physical Chemistry B, 2006, 110, 4066-4072.	2.6	552
3	Plasmon-Induced Photodegradation of Toxic Pollutants with Agâ^'AgI/Al₂O₃ under Visible-Light Irradiation. Journal of the American Chemical Society, 2010, 132, 857-862.	13.7	541
4	Electronic Structure Modulation of Graphitic Carbon Nitride by Oxygen Doping for Enhanced Catalytic Degradation of Organic Pollutants through Peroxymonosulfate Activation. Environmental Science & Technology, 2018, 52, 14371-14380.	10.0	455
5	New Insights into the Generation of Singlet Oxygen in the Metal-Free Peroxymonosulfate Activation Process: Important Role of Electron-Deficient Carbon Atoms. Environmental Science & Technology, 2020, 54, 1232-1241.	10.0	400
6	Degradation of Acid Orange 7 using magnetic AgBr under visible light: The roles of oxidizing species. Chemosphere, 2009, 76, 1185-1191.	8.2	386
7	Removal of phosphate by mesoporous ZrO2. Journal of Hazardous Materials, 2008, 151, 616-622.	12.4	326
8	AgBr-Ag-Bi2WO6 nanojunction system: A novel and efficient photocatalyst with double visible-light active components. Applied Catalysis A: General, 2009, 363, 221-229.	4.3	304
9	Enhanced photodegradation of toxic organic pollutants using dual-oxygen-doped porous g-C3N4: Mechanism exploration from both experimental and DFT studies. Applied Catalysis B: Environmental, 2019, 248, 1-10.	20.2	291
10	Degradation of selected pharmaceuticals in aqueous solution with UV and UV/H2O2. Water Research, 2009, 43, 1766-1774.	11.3	288
11	Mechanism of Catalytic Ozonation in Fe₂O₃/Al₂O₃@SBA-15 Aqueous Suspension for Destruction of Ibuprofen. Environmental Science & Technology, 2015, 49, 1690-1697.	10.0	286
12	Photodegradation of tetracycline and formation of reactive oxygen species in aqueous tetracycline solution under simulated sunlight irradiation. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 197, 81-87.	3.9	249
13	Enhanced Fenton Catalytic Efficiency of Î³-Cuâ€"Al₂O₃ by Ïƒ-Cu²⁺â€"Ligand Complexes from Aromatic Pollutant Degradation. Environmental Science & Technology, 2015, 49, 8639-8647.	10.0	247
14	Photodegradation and toxicity changes of antibiotics in UV and UV/H2O2 process. Journal of Hazardous Materials, 2011, 185, 1256-1263.	12.4	240
15	Photocatalytic Degradation of Pathogenic Bacteria with AgI/TiO2under Visible Light Irradiation. Langmuir, 2007, 23, 4982-4987.	3.5	217
16	Surface oxygen vacancy inducing peroxymonosulfate activation through electron donation of pollutants over cobalt-zinc ferrite for water purification. Applied Catalysis B: Environmental, 2020, 270, 118874.	20.2	207
17	Catalytic Ozonation of Selected Pharmaceuticals over Mesoporous Alumina-Supported Manganese Oxide. Environmental Science & Technology, 2009, 43, 2525-2529.	10.0	203
18	Efficient Destruction of Pollutants in Water by a Dual-Reaction-Center Fenton-like Process over Carbon Nitride Compounds-Complexed Cu(II)-CuAlO₂. Environmental Science & Technology, 2018, 52, 4294-4304.	10.0	203

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19	Unraveling the High-Activity Origin of Single-Atom Iron Catalysts for Organic Pollutant Oxidation via Peroxymonosulfate Activation. Environmental Science & Technology, 2021, 55, 8318-8328.	10.0	198
20	Indirect Photodegradation of Amine Drugs in Aqueous Solution under Simulated Sunlight. Environmental Science & Technology, 2009, 43, 2760-2765.	10.0	195
21	Effects of disinfectant and biofilm on the corrosion of cast iron pipes in a reclaimed water distribution system. Water Research, 2012, 46, 1070-1078.	11.3	193
22	Plasmon-Assisted Degradation of Toxic Pollutants with Agâ^'AgBr/Al₂O₃ under Visible-Light Irradiation. Journal of Physical Chemistry C, 2010, 114, 2746-2750.	3.1	186
23	Visible-Light-Induced Photocatalytic Degradation of Azodyes in Aqueous AgI/TiO2Dispersion. Environmental Science & Technology, 2006, 40, 7903-7907.	10.0	180
24	4-Phenoxyphenol-Functionalized Reduced Graphene Oxide Nanosheets: A Metal-Free Fenton-Like Catalyst for Pollutant Destruction. Environmental Science & Technology, 2018, 52, 747-756.	10.0	180
25	Enhanced Fenton degradation of Rhodamine B over nanoscaled Cu-doped LaTiO3 perovskite. Applied Catalysis B: Environmental, 2012, 125, 418-424.	20.2	174
26	Enhanced Fenton-like degradation of pharmaceuticals over framework copper species in copper-doped mesoporous silica microspheres. Chemical Engineering Journal, 2015, 274, 298-306.	12.7	170
27	Enhanced fluoride adsorption using Al (III) modified calcium hydroxyapatite. Journal of Hazardous Materials, 2012, 233-234, 194-199.	12.4	167
28	Transformation of humic acid and halogenated byproduct formation in UV-chlorine processes. Water Research, 2016, 102, 421-427.	11.3	164
29	Photocatalytic degradation of triazine-containing azo dyes in aqueous TiO2 suspensions. Applied Catalysis B: Environmental, 2003, 42, 47-55.	20.2	159
30	Efficient Fenton-like Process for Pollutant Removal in Electron-Rich/Poor Reaction Sites Induced by Surface Oxygen Vacancy over Cobaltâ€"Zinc Oxides. Environmental Science & Technology, 2020, 54, 8333-8343.	10.0	137
31	Selective H₂O₂ conversion to hydroxyl radicals in the electron-rich area of hydroxylated C-g-C₃N₄/CuCoâ€"Al₂O₃. Journal of Materials Chemistry A, 2017, 5, 7153-7164.	10.3	136
32	Catalytic ozonation of toxic pollutants over magnetic cobalt and manganese co-doped Î³-Fe2O3. Applied Catalysis B: Environmental, 2010, 100, 62-67.	20.2	131
33	Enhanced degradation of organic pollutants over Cu-doped LaAlO3 perovskite through heterogeneous Fenton-like reactions. Chemical Engineering Journal, 2018, 332, 572-581.	12.7	131
34	Preparation and visible-light photocatalytic activity of Ag3VO4 powders. Journal of Solid State Chemistry, 2007, 180, 725-732.	2.9	122
35	Catalytic ozonation of toxic pollutants over magnetic cobalt-doped Fe3O4 suspensions. Applied Catalysis B: Environmental, 2012, 117-118, 246-252.	20.2	120
36	Photoelectrocatalytic Degradation of Triazine-Containing Azo Dyes at Î³-Bi₂MoO₆ Film Electrode under Visible Light Irradiation (Î» > 420 Nm). Environmental Science & Technology, 2007, 41, 6802-6807.	10.0	118

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37	Characterization and Reactivity of MnO_x Supported on Mesoporous Zirconia for Herbicide 2,4-D Mineralization with Ozone. Environmental Science & Technology, 2008, 42, 3363-3368.	10.0	118
38	Surface acidity and reactivity of Î²-FeOOH/Al2O3 for pharmaceuticals degradation with ozone: In situ ATR-FTIR studies. Applied Catalysis B: Environmental, 2010, 97, 340-346.	20.2	118
39	Enhanced catalytic degradation of ciprofloxacin over Ce-doped OMS-2 microspheres. Applied Catalysis B: Environmental, 2016, 181, 561-569.	20.2	118
40	Decolorization of methylene blue in layered manganese oxide suspension with H2O2. Journal of Hazardous Materials, 2011, 190, 780-785.	12.4	109
41	Enhanced Fenton-like degradation of refractory organic compounds by surface complex formation of LaFeO3 and H2O2. Journal of Hazardous Materials, 2015, 294, 195-200.	12.4	107
42	Enhanced mineralization of pharmaceuticals by surface oxidation over mesoporous Î³-Ti-Al2O3 suspension with ozone. Applied Catalysis B: Environmental, 2017, 202, 118-126.	20.2	107
43	Highly nitrogen-doped porous carbon transformed from graphitic carbon nitride for efficient metal-free catalysis. Journal of Hazardous Materials, 2020, 393, 121280.	12.4	105
44	Self-assembled synthesis of benzene-ring-grafted g-C3N4 nanotubes for enhanced photocatalytic H2 evolution. Applied Catalysis B: Environmental, 2020, 279, 119401.	20.2	104
45	Photocatalytic degradation of cationic blue X-GRL adsorbed on TiO2/SiO2 photocatalyst. Applied Catalysis B: Environmental, 2003, 40, 131-140.	20.2	103
46	Characterization of biofilm and corrosion of cast iron pipes in drinking water distribution system with UV/Cl2 disinfection. Water Research, 2014, 60, 174-181.	11.3	101
47	p-AgI anchored on {001} facets of n-Bi2O2CO3 sheets with enhanced photocatalytic activity and stability. Applied Catalysis B: Environmental, 2017, 205, 34-41.	20.2	97
48	Coordination Number Dependent Catalytic Activity of Singleâ€Atom Cobalt Catalysts for Fentonâ€Like Reaction. Advanced Functional Materials, 2022, 32, .	14.9	87
49	Efficient destruction of pathogenic bacteria with AgBr/TiO2 under visible light irradiation. Applied Catalysis B: Environmental, 2007, 73, 354-360.	20.2	86
50	Framework Cu-doped AlPO4 as an effective Fenton-like catalyst for bisphenol A degradation. Applied Catalysis B: Environmental, 2017, 207, 9-16.	20.2	86
51	Photoassisted degradation of endocrine disruptors over CuOxâ€“FeOOH with H2O2 at neutral pH. Applied Catalysis B: Environmental, 2009, 87, 30-36.	20.2	84
52	Efficient Destruction of Pathogenic Bacteria with NiO/SrBi2O4under Visible Light Irradiation. Environmental Science & Technology, 2006, 40, 5508-5513.	10.0	81
53	Nanoporous Silica-Supported Nanometric Palladium:Â Synthesis, Characterization, and Catalytic Deep Oxidation of Benzene. Environmental Science & Technology, 2005, 39, 1319-1323.	10.0	80
54	Construction of g-C3N4/WO3/MoS2 ternary nanocomposite with enhanced charge separation and collection for efficient wastewater treatment under visible light. Chemosphere, 2020, 247, 125784.	8.2	80

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55	Efficient inhibition of photogenerated electron-hole recombination through persulfate activation and dual-pathway degradation of micropollutants over iron molybdate. Applied Catalysis B: Environmental, 2019, 257, 117904.	20.2	79
56	Synergistic effect of the sequential use of UV irradiation and chlorine to disinfect reclaimed water. Water Research, 2012, 46, 1225-1232.	11.3	77
57	Origin of the Excellent Activity and Selectivity of a Single-Atom Copper Catalyst with Unsaturated Cu-N₂ Sites via Peroxydisulfate Activation: Cu(III) as a Dominant Oxidizing Species. Environmental Science & Technology, 2022, 56, 8765-8775.	10.0	77
58	Zn:In(OH)_yS_z Solid Solution Nanoplates: Synthesis, Characterization, and Photocatalytic Mechanism. Environmental Science & Technology, 2009, 43, 7883-7888.	10.0	76
59	Plasmon-Induced Inactivation of Enteric Pathogenic Microorganisms with Agâ^'AgI/Al₂O₃ under Visible-Light Irradiation. Environmental Science & Technology, 2010, 44, 7058-7062.	10.0	76
60	Photoproducts of tetracycline and oxytetracycline involving self-sensitized oxidation in aqueous solutions: Effects of Ca2+ and Mg2+. Journal of Environmental Sciences, 2011, 23, 1634-1639.	6.1	75
61	Enhanced internal electric field in S-doped BiOBr for intercalation, adsorption and degradation of ciprofloxacin by photoinitiation. Applied Catalysis B: Environmental, 2022, 302, 120824.	20.2	75
62	Internal electric field construction on dual oxygen group-doped carbon nitride for enhanced photodegradation of pollutants under visible light irradiation. Applied Catalysis B: Environmental, 2019, 256, 117705.	20.2	74
63	Enhanced Fenton-catalytic efficiency by highly accessible active sites on dandelion-like copperâ€“aluminumâ€“silica nanospheres for water purification. Journal of Materials Chemistry A, 2016, 4, 8610-8619.	10.3	73
64	A dual-reaction-center Fenton-like process on â€“Cî€,Nâ€“Cu linkage between copper oxides and defect-containing g-C₃N₄ for efficient removal of organic pollutants. Journal of Materials Chemistry A, 2018, 6, 17819-17828.	10.3	73
65	Characterization and photocatalytic activity of noble-metal-supported surface TiO2/SiO2. Applied Catalysis A: General, 2003, 253, 389-396.	4.3	72
66	Two-dimensional graphene/g-C3N4 in-plane hybrid heterostructure for enhanced photocatalytic activity with surface-adsorbed pollutants assistant. Applied Catalysis B: Environmental, 2020, 268, 118397.	20.2	71
67	General synthesis of carbon and oxygen dual-doped graphitic carbon nitride via copolymerization for non-photochemical oxidation of organic pollutant. Journal of Hazardous Materials, 2020, 394, 122578.	12.4	71
68	Cationâ^'ï€ structure inducing efficient peroxymonosulfate activation for pollutant degradation over atomically dispersed cobalt bonding graphene-like nanospheres. Applied Catalysis B: Environmental, 2021, 286, 119912.	20.2	71
69	Catalytic Ozonation of Herbicide 2,4-D over Cobalt Oxide Supported on Mesoporous Zirconia. Journal of Physical Chemistry C, 2008, 112, 5978-5983.	3.1	70
70	Galvanic-like cells produced by negative charge nonuniformity of lattice oxygen on d-TiCuAlâ€“SiO₂ nanospheres for enhancement of Fenton-catalytic efficiency. Environmental Science: Nano, 2016, 3, 1483-1492.	4.3	68
71	Facile synthesis of nitrogen-deficient mesoporous graphitic carbon nitride for highly efficient photocatalytic performance. Applied Surface Science, 2019, 478, 304-312.	6.1	68
72	Characteristics of biofilms and iron corrosion scales with ground and surface waters in drinking water distribution systems. Corrosion Science, 2015, 90, 331-339.	6.6	67

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73	Efficient destruction of bacteria with Ti(IV) and antibacterial ions in co-substituted hydroxyapatite films. Applied Catalysis B: Environmental, 2007, 73, 345-353.	20.2	65
74	Enhanced photoactivity of Bi2WO6 by iodide insertion into the interlayer for water purification under visible light. Chemical Engineering Journal, 2018, 352, 664-672.	12.7	65
75	Preparation and visible-light activity of silver vanadate for the degradation of pollutants. Materials Research Bulletin, 2008, 43, 2986-2997.	5.2	64
76	Inhibition of bromate formation by surface reduction in catalytic ozonation of organic pollutants over Î²-FeOOH/Al2O3. Applied Catalysis B: Environmental, 2014, 147, 287-292.	20.2	64
77	Fe-N-Graphene Wrapped Al₂O₃/Pentlandite from Microalgae: High Fenton Catalytic Efficiency from Enhanced Fe³⁺ Reduction. Environmental Science & Technology, 2018, 52, 3608-3614.	10.0	64
78	Effect of sequential UV/free chlorine disinfection on opportunistic pathogens and microbial community structure in simulated drinking water distribution systems. Chemosphere, 2019, 219, 971-980.	8.2	64
79	Insights into the difference in metal-free activation of peroxymonosulfate and peroxydisulfate. Chemical Engineering Journal, 2020, 394, 123936.	12.7	63
80	Influence of pretreatment conditions on low-temperature CO oxidation over Au/MOx/Al2O3 catalysts. Journal of Molecular Catalysis A, 2003, 200, 229-238.	4.8	62
81	Porous Î²-Bi2O3 with multiple vacancy associates on highly exposed active {220} facets for enhanced photocatalytic activity. Applied Catalysis B: Environmental, 2020, 265, 118563.	20.2	62
82	Effects of microbial redox cycling of iron on cast iron pipe corrosion in drinking water distribution systems. Water Research, 2014, 65, 362-370.	11.3	61
83	Enhanced polarization of electron-poor/rich micro-centers over nZVCu-Cu(II)-rGO for pollutant removal with H2O2. Journal of Hazardous Materials, 2020, 383, 121182.	12.4	61
84	Characterization and reactivity of biogenic manganese oxides for ciprofloxacin oxidation. Journal of Environmental Sciences, 2014, 26, 1154-1161.	6.1	60
85	Enhanced photocatalytic performance by the synergy of Bi vacancies and Bi0 in Bi0-Bi2-Î´MoO6. Applied Catalysis B: Environmental, 2019, 257, 117785.	20.2	60
86	Efficient Fenton-like Process Induced by Fortified Electron-Rich O Microcenter on the Reduction State Cu-Doped CNO Polymer. ACS Applied Materials & Interfaces, 2019, 11, 16496-16505.	8.0	59
87	Effects of phosphate-enhanced ozone/biofiltration on formation of disinfection byproducts and occurrence of opportunistic pathogens in drinking water distribution systems. Water Research, 2018, 139, 168-176.	11.3	58
88	Catalytic combustion of methane on novel catalysts derived from Cu-Mg/Al-hydrotalcites. Catalysis Letters, 2005, 99, 157-163.	2.6	55
89	Photocatalytic decomposition of acetaldehyde and Escherichia coli using NiO/SrBi2O4 under visible light irradiation. Applied Catalysis B: Environmental, 2006, 69, 17-23.	20.2	55
90	Efficient photodegradation of Acid Red B by immobilized ferrocene in the presence of UVA and H2O2. Journal of Hazardous Materials, 2008, 154, 146-152.	12.4	55

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91	Enhanced Cr(VI) reduction by direct transfer of photo-generated electrons to Cr 3d orbitals in CrO42–intercalated BiOBr with exposed (110) facets. Applied Catalysis B: Environmental, 2020, 277, 119065.	20.2	55
92	Framework Cu-doped boron nitride nanobelts with enhanced internal electric field for effective Fenton-like removal of organic pollutants. Journal of Materials Chemistry A, 2019, 7, 6946-6956.	10.3	54
93	Engineering the low-coordinated single cobalt atom to boost persulfate activation for enhanced organic pollutant oxidation. Applied Catalysis B: Environmental, 2022, 303, 120877.	20.2	54
94	Simple Amphoteric Charge Strategy to Reinforce Superhydrophilic Polyvinylidene Fluoride Membrane for Highly Efficient Separation of Various Surfactant-Stabilized Oil-in-Water Emulsions. ACS Applied Materials & Interfaces, 2020, 12, 47018-47028.	8.0	52
95	Photolysis of Chlortetracycline in aqueous solution: Kinetics, toxicity and products. Journal of Environmental Sciences, 2012, 24, 254-260.	6.1	51
96	AgBr-wrapped Ag chelated on nitrogen-doped reduced graphene oxide for water purification under visible light. Applied Catalysis B: Environmental, 2018, 220, 118-125.	20.2	51
97	Degradation characteristics of humic acid over iron oxides/Fe0 coreâ€“shell nanoparticles with UVA/H2O2. Journal of Hazardous Materials, 2010, 173, 474-479.	12.4	50
98	Efficient Fenton-like process for organic pollutant degradation on Cu-doped mesoporous polyimide nanocomposites. Environmental Science: Nano, 2019, 6, 798-808.	4.3	49
99	Hierarchically Active Poly(vinylidene fluoride) Membrane Fabricated by In Situ Generated Zero-Valent Iron for Fouling Reduction. ACS Applied Materials & Interfaces, 2020, 12, 10993-11004.	8.0	49
100	Response of microorganisms in biofilm to sulfadiazine and ciprofloxacin in drinking water distribution systems. Chemosphere, 2019, 218, 197-204.	8.2	48
101	Nitrogen-Coordinated Cobalt Embedded in a Hollow Carbon Polyhedron for Superior Catalytic Oxidation of Organic Contaminants with Peroxymonosulfate. ACS ES&T Engineering, 2021, 1, 76-85.	7.6	48
102	Characterization and catalytic performance of Co/SBA-15 supported gold catalysts for CO oxidation. Materials Research Bulletin, 2006, 41, 406-413.	5.2	47
103	Photoassisted Degradation of Azodyes over FeOxH2x-3/Fe0 in the Presence of H2O2 at Neutral pH Values. Environmental Science & Technology, 2007, 41, 4715-4719.	10.0	47
104	In situ generation and efficient activation of H2O2 for pollutant degradation over CoMoS2 nanosphere-embedded rGO nanosheets and its interfacial reaction mechanism. Journal of Colloid and Interface Science, 2019, 543, 214-224.	9.4	47
105	One-year survey of opportunistic premise plumbing pathogens and free-living amoebae in the tap-water of one northern city of China. Journal of Environmental Sciences, 2019, 77, 20-31.	6.1	46
106	Sustaining reactivity of Fe0 for nitrate reduction via electron transfer between dissolved Fe2+ and surface iron oxides. Journal of Hazardous Materials, 2016, 308, 208-215.	12.4	45
107	Enhanced azo dye decolorization through charge transmission by Ïƒ-Sb3+-azo complexes on amorphous Sb2S3 under visible light irradiation. Applied Catalysis B: Environmental, 2019, 240, 132-140.	20.2	45
108	Theoretical and experimental evidence for rGO-4-PP Nc as a metal-free Fenton-like catalyst by tuning the electron distribution. RSC Advances, 2018, 8, 3312-3320.	3.6	44

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109	Sulfadiazine/ciprofloxacin promote opportunistic pathogens occurrence in bulk water of drinking water distribution systems. Environmental Pollution, 2018, 234, 71-78.	7.5	42
110	Characterization of the bacterial communities and iron corrosion scales in drinking groundwater distribution systems with chlorine/chloramine. International Biodeterioration and Biodegradation, 2014, 96, 71-79.	3.9	41
111	Characterization and adsorption performance of Zrâ€doped akaganÃ©ite for efficient arsenic removal. Journal of Chemical Technology and Biotechnology, 2013, 88, 629-635.	3.2	40
112	Oxygen vacancy enhanced photostability and activity of plasmon-Ag composites in the visible to near-infrared region for water purification. Applied Catalysis B: Environmental, 2016, 199, 230-240.	20.2	40
113	Photoelectrochemical degradation of Methylene Blue with Î²-PbO2 electrodes driven by visible light irradiation. Journal of Environmental Sciences, 2011, 23, 998-1003.	6.1	39
114	Enhanced solar photodegradation of toxic pollutants by long-lived electrons in Agâ€“Ag2O nanocomposites. Applied Catalysis B: Environmental, 2015, 176-177, 637-645.	20.2	38
115	Efficient solar hydrogen production coupled with organics degradation by a hybrid tandem photocatalytic fuel cell using a silicon-doped TiO2 nanorod array with enhanced electronic properties. Journal of Hazardous Materials, 2020, 394, 121425.	12.4	38
116	Efficient removal of disinfection by-products precursors and inhibition of bacterial detachment by strong interaction of EPS with coconut shell activated carbon in ozone/biofiltration. Journal of Hazardous Materials, 2020, 392, 122077.	12.4	38
117	The abatement of major pollutants in air and water by environmental catalysis. Frontiers of Environmental Science and Engineering, 2013, 7, 302-325.	6.0	37
118	A self-sustaining monolithic photoelectrocatalytic/photovoltaic system based on a WO3/BiVO4 photoanode and Si PVC for efficiently producing clean energy from refractory organics degradation. Applied Catalysis B: Environmental, 2018, 238, 309-317.	20.2	37
119	Enhanced inhibition of bromate formation in catalytic ozonation of organic pollutants over Feâ€“Al LDH/Al2O3. Separation and Purification Technology, 2015, 151, 256-261.	7.9	36
120	Dual-reaction-center catalytic process continues Fentonâ€™s story. Frontiers of Environmental Science and Engineering, 2020, 14, 1.	6.0	36
121	Notable light-free catalytic activity for pollutant destruction over flower-like BiOI microspheres by a dual-reaction-center Fenton-like process. Journal of Colloid and Interface Science, 2018, 527, 251-259.	9.4	35
122	Exfoliated and plicated g-C3N4 nanosheets for efficient photocatalytic organic degradation and hydrogen evolution. International Journal of Hydrogen Energy, 2021, 46, 20547-20559.	7.1	34
123	Removal of persistent organic pollutants from micro-polluted drinking water by triolein embedded absorbent. Bioresource Technology, 2009, 100, 2995-3002.	9.6	33
124	Treatment of NOM fractions of reservoir sediments: Effect of UV and chlorination on formation of DBPs. Separation and Purification Technology, 2015, 154, 228-235.	7.9	32
125	Impacts of bacteria and corrosion on removal of natural organic matter and disinfection byproducts in different drinking water distribution systems. International Biodeterioration and Biodegradation, 2017, 117, 52-59.	3.9	32
126	An efficient electron transfer at the Fe0/iron oxide interface for the photoassisted degradation of pollutants with H2O2. Applied Catalysis B: Environmental, 2008, 82, 151-156.	20.2	31

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127	<scp>l</scp>-Ascorbic acid oxygen-induced micro-electronic fields over metal-free polyimide for peroxymonosulfate activation to realize efficient multi-pathway destruction of contaminants. Journal of Materials Chemistry A, 2020, 8, 810-819.	10.3	31
128	Enhanced Fenton-like efficiency by the synergistic effect of oxygen vacancies and organics adsorption on FexOy-d-g-C3N4 with Feâ€'N complexation. Journal of Hazardous Materials, 2021, 408, 124818.	12.4	31
129	Sequential use of ultraviolet light and chlorine for reclaimed water disinfection. Journal of Environmental Sciences, 2011, 23, 1605-1610.	6.1	30
130	Characteristics of corrosion sales and biofilm in aged pipe distribution systems with switching water source. Engineering Failure Analysis, 2016, 60, 166-175.	4.0	29
131	Cu-doped Bi2O3/Bi0 composite as an efficient Fenton-like catalyst for degradation of 2-chlorophenol. Separation and Purification Technology, 2016, 157, 203-208.	7.9	29
132	Interaction of ciprofloxacin chlorination products with bacteria in drinking water distribution systems. Journal of Hazardous Materials, 2017, 339, 174-181.	12.4	29
133	Effects of combined UV and chlorine disinfection on corrosion and water quality within reclaimed water distribution systems. Engineering Failure Analysis, 2014, 39, 12-20.	4.0	27
134	Characterization and photostability of Cu2Oâ€"Agâ€"AgBr/Al2O3 for the degradation of toxic pollutants with visible-light irradiation. Applied Catalysis B: Environmental, 2014, 154-155, 44-50.	20.2	27
135	Effects of microbial cycling of Fe(II)/Fe(III) and Fe/N on cast iron corrosion in simulated drinking water distribution systems. Corrosion Science, 2015, 100, 599-606.	6.6	27
136	Chemical-bond conjugated BiO(OH)xI1-x-AgI heterojunction with high visible light activity and stability in degradation of pollutants. Applied Catalysis B: Environmental, 2017, 218, 443-451.	20.2	27
137	Effects of O3/Cl2 disinfection on corrosion and opportunistic pathogens growth in drinking water distribution systems. Journal of Environmental Sciences, 2018, 73, 38-46.	6.1	27
138	Highly improved photoelectrocatalytic efficiency and stability of WO₃ photoanodes by the facile in situ growth of TiO₂ branch overlayers. Nanoscale, 2018, 10, 13393-13401.	5.6	27
139	Enhancing photocatalytic performance by direct photo-excited electron transfer from organic pollutants to low-polymerized graphitic carbon nitride with more C-NH/NH2 exposure. Applied Catalysis B: Environmental, 2021, 296, 120316.	20.2	26
140	Effects of inorganic anions on photoactivity of various photocatalysts under different conditions. Journal of Chemical Technology and Biotechnology, 2004, 79, 247-252.	3.2	25
141	Inhibition mechanism of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msubsup><mml:mrow><mml:mtext>BrO</mml:mtext></mml:mrow><mml:mrow><mml:mn>3 formation over MnO /Al2O3 during the catalytic ozonation of 2,4-dichlorophenoxyacetic acid in water. Separation and Purification Technology, 2013, 117, 41-45.	7.9	25
142	Efficient catalytic aerobic oxidation ofÂchlorinated phenols with mixed-valent manganese oxide nanoparticles. Journal of Chemical Technology and Biotechnology, 2015, 90, 80-86.	3.2	25
143	Ï€-Ï€ conjugation driving degradation of aromatic compounds with in-situ hydrogen peroxide generation over Zn2In2S5 grown on nitrogen-doped carbon spheres. Applied Catalysis B: Environmental, 2022, 310, 121298.	20.2	25
144	Carbonized MOF-Coated Zero-Valent Cu Driving an Efficient Dual-Reaction-Center Fenton-like Water Treatment Process through Utilizing Pollutants and Natural Dissolved Oxygen. ACS ES&T Water, 2022, 2, 174-183.	4.6	25

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145	Effects of NOM on the degradation of chloramphenicol by UV/H2O2 and the characteristics of degradation products. Separation and Purification Technology, 2018, 191, 108-115.	7.9	24
146	Efficient light-free activation of peroxymonosulfate by carbon ring conjugated carbon nitride for elimination of organic pollutants. Chemical Engineering Journal, 2021, 420, 129671.	12.7	24
147	Detoxification and selective separation of Cr(VI) and As(III) in wastewater based on interfacial coupling in BiOBr with {110} facet under visible-light irradiation. Applied Catalysis B: Environmental, 2022, 307, 121192.	20.2	24
148	Enhanced photocatalytic destruction of pollutants by surface W vacancies in VW-Bi2WO6 under visible light. Journal of Colloid and Interface Science, 2020, 576, 385-393.	9.4	23
149	More octahedral Cu+ and surface acid sites in uniformly porous Cu-Al2O3 for enhanced Fenton catalytic performances. Journal of Hazardous Materials, 2021, 406, 124739.	12.4	23
150	Characterization of biofilm bacterial communities and cast iron corrosion in bench-scale reactors with chloraminated drinking water. Engineering Failure Analysis, 2015, 57, 423-433.	4.0	22
151	Mesoporous reduction state cobalt species-doped silica nanospheres: An efficient Fenton-like catalyst for dual-pathway degradation of organic pollutants. Journal of Colloid and Interface Science, 2020, 576, 59-67.	9.4	22
152	H2O2 inducing dissolved oxygen activation and electron donation of pollutants over Fe-ZnS quantum dots through surface electron-poor/rich microregion construction for water treatment. Journal of Hazardous Materials, 2021, 420, 126579.	12.4	22
153	Enhanced photocatalytic efficiency by direct photoexcited electron transfer from pollutants adsorbed on the surface valence band of BiOBr modified with graphitized C. Journal of Hazardous Materials, 2022, 424, 127502.	12.4	22
154	Effects of disinfection efficiency on microbial communities and corrosion processes in drinking water distribution systems simulated with actual running conditions. Journal of Environmental Sciences, 2020, 88, 273-282.	6.1	21
155	Phototransformation of nitrobenzene in the Songhua River: Kinetics and photoproduct analysis. Journal of Environmental Sciences, 2008, 20, 787-795.	6.1	20
156	One-step scalable synthesis of honeycomb-like g-C₃N₄ with broad sub-bandgap absorption for superior visible-light-driven photocatalytic hydrogen evolution. RSC Advances, 2019, 9, 32674-32682.	3.6	20
157	Highly Efficient Hydrogen and Electricity Production Combined with Degradation of Organics Based on a Novel Solar Water-Energy Nexus System. ACS Applied Materials & Interfaces, 2020, 12, 2505-2515.	8.0	20
158	Heterogeneous Fenton-like reaction followed by GAC filtration improved removal efficiency of NOM and DBPs without adjusting pH. Separation and Purification Technology, 2021, 260, 118234.	7.9	20
159	Cation-Ï€ induced surface cleavage of organic pollutants with â‹…OH formation from H2O for water treatment. IScience, 2021, 24, 102874.	4.1	20
160	Adsorption and removal of arsenite on ordered mesoporous Fe-modified ZrO₂. Desalination and Water Treatment, 2009, 8, 139-145.	1.0	19
161	O3-BAC-Cl2: A multi-barrier process controlling the regrowth of opportunistic waterborne pathogens in drinking water distribution systems. Journal of Environmental Sciences, 2019, 76, 142-153.	6.1	19
162	Surface sulfur vacancies enhanced electron transfer over Co-ZnS quantum dots for efficient degradation of plasticizer micropollutants by peroxymonosulfate activation. Chinese Chemical Letters, 2022, 33, 3829-3834.	9.0	19

#	Article	IF	Citations
163	Nanoconfinement-Regulated Peroxymonosulfate Activation via an Anomalously Efficient Mediated Electron-Transfer Pathway on Cobalt. ACS ES&T Engineering, 2022, 2, 2014-2022.	7.6	19
164	Preparation and evaluation of Zr-Î²-FeOOH for efficient arsenic removal. Journal of Environmental Sciences, 2013, 25, 815-822.	6.1	18
165	Efficient Decomposition of Organic Pollutants over nZVI/FeO_x/FeN_y-Anchored NC Layers via a Novel Dual-Reaction-Centers-Based Wet Air Oxidation Process under Natural Conditions. ACS ES&T Engineering, 2021, 1, 1333-1341.	7.6	17
166	The control of red water occurrence and opportunistic pathogens risks in drinking water distribution systems: A review. Journal of Environmental Sciences, 2021, 110, 92-98.	6.1	17
167	Tailoring aromatic ring-terminated edges of g-C₃N₄ nanosheets for efficient photocatalytic hydrogen evolution with simultaneous antibiotic removal. Catalysis Science and Technology, 2020, 10, 5470-5479.	4.1	16
168	Enhanced Fenton-like process via interfacial electron donating of pollutants over in situ Cobalt-doped graphitic carbon nitride. Journal of Colloid and Interface Science, 2022, 608, 673-682.	9.4	16
169	Synthesis of MCM-48 with a high thermal and hydro-thermal stability. Materials Research Bulletin, 2005, 40, 1775-1780.	5.2	15
170	Preparation of grape-like Bi2O3/Ti photoanode and its visible light activity. Materials Research Bulletin, 2011, 46, 153-157.	5.2	15
171	Characterization of chemical composition and bacterial community of corrosion scales in different drinking water distribution systems. Environmental Science: Water Research and Technology, 2017, 3, 147-155.	2.4	15
172	Enhanced Fenton-like catalytic performance of Cu-Al/KIT-6 and the key role of O2 in triggering reaction. Chemical Engineering Journal, 2020, 387, 124006.	12.7	15
173	Vanadium tetrasulfide cross-linking graphene-like carbon driving a sustainable electron supply chain from pollutants through the activation of dissolved oxygen and hydrogen peroxide. Environmental Science: Nano, 2021, 8, 86-96.	4.3	15
174	Enhanced Photodegradation of Toxic Pollutants on Plasmonic Auâ€“Agâ€“AgI/Al2O3 Under Visible Irradiation. Catalysis Letters, 2012, 142, 646-654.	2.6	14
175	Enhanced electron transfer and silver-releasing suppression in Agâ€“AgBr/titanium-doped Al2O3 suspensions with visible-light irradiation. Journal of Hazardous Materials, 2012, 219-220, 276-282.	12.4	14
176	Inhibiting the increase of antibiotic resistance genes during drinking water distribution by superior microbial interface using Fe modified granular activated carbon. Journal of Cleaner Production, 2022, 335, 130225.	9.3	14
177	Ï€-Ï€ conjugation driving peroxymonosulfate activation for pollutant elimination over metal-free graphitized polyimide surface. Journal of Hazardous Materials, 2021, 412, 125191.	12.4	13
178	Inactivation and Photorepair of Enteric Pathogenic Microorganisms with Ultraviolet Irradiation. Environmental Engineering Science, 2012, 29, 549-553.	1.6	12
179	Characterization of bacterial community and iron corrosion in drinking water distribution systems with O 3 -biological activated carbon treatment. Journal of Environmental Sciences, 2018, 69, 192-204.	6.1	12
180	Enhanced â€¢OH generation and pollutants removal by framework Cu doped LaAlO3/Al2O3. Journal of Hazardous Materials, 2022, 431, 128578.	12.4	12

#	Article	IF	Citations
181	Efficient Removal of Toxic Pollutants Over Feâ€“Co/ZrO2 Bimetallic Catalyst with Ozone. Catalysis Letters, 2012, 142, 1026-1032.	2.6	11
182	Improving the charge properties of the WO₃ photoanode using a BiFeO₃ ferroelectric nanolayer. Physical Chemistry Chemical Physics, 2021, 23, 8241-8245.	2.8	11
183	Few-layered Bi4O5I2 nanosheets enclosed by {1 0â^1} facets with oxygen vacancies for highly-efficient removal of water contaminants. Journal of Hazardous Materials, 2022, 437, 129274.	12.4	10
184	Synthesize of Cu2O-CuO/Sr3BiO5.4 and its photocatalytic activity. Applied Surface Science, 2012, 258, 5955-5959.	6.1	9
185	Catalytic ozonation performance and surface property of supported Fe3O4 catalysts dispersions. Frontiers of Environmental Science and Engineering, 2013, 7, 451-456.	6.0	9
186	The interaction of surface electron distribution-polarized Fe/polyimide hybrid nanosheets with organic pollutants driving a sustainable Fenton-like process. Materials Advances, 2020, 1, 1083-1091.	5.4	9
187	Effects of cast iron pipe corrosion on nitrogenous disinfection by-products formation in drinking water distribution systems via interaction among iron particles, biofilms, and chlorine. Chemosphere, 2022, 292, 133364.	8.2	9
188	Rapid pollutant degradation by peroxymonosulfate via an unusual mediated-electron transfer pathway under spatial-confinement. RSC Advances, 2022, 12, 5236-5244.	3.6	9
189	Graphitized Cu-Î²-cyclodextrin polymer driving an efficient dual-reaction-center Fenton-like process by utilizing electrons of pollutants for water purification. Journal of Environmental Sciences, 2023, 126, 565-574.	6.1	9
190	Boosting the Extra Generation of Superoxide Radicals on Graphitic Carbon Nitride with Carbon Vacancies by the Modification of Pollutant Adsorption for High-Performance Photocatalytic Degradation. ACS ES&T Engineering, 2022, 2, 1296-1305.	7.6	8
191	Peroxymonosulfate as inducer driving interfacial electron donation of pollutants over oxygen-rich carbonâ€“nitrogen graphene-like nanosheets for water treatment. Journal of Colloid and Interface Science, 2022, 622, 272-283.	9.4	8
192	The epoxidation of allyl alcohol on Ti-complex/MCM-48 catalyst. Microporous and Mesoporous Materials, 2008, 112, 133-137.	4.4	7
193	Plasmonâ€induced reduction of bromate with Auâ€“Agâ€“AgI/Al₂O₃ under visibleâ€light irradiation. Journal of Chemical Technology and Biotechnology, 2014, 89, 1425-1431.	3.2	7
194	BiO(OH)xI1-x solid solution with rich oxygen vacancies: interlayer guest hydroxyl for improved photocatalytic properties. Journal of Colloid and Interface Science, 2022, 605, 1-12.	9.4	7
195	Sustainable micro-activation of dissolved oxygen driving pollutant conversion on Mo-enhanced zinc sulfide surface in natural conditions. Fundamental Research, 2023, 3, 422-429.	3.3	7
196	Effects of chlorine and pipe material on biofilm development and structure in a reclaimed water distribution system. Water Science and Technology: Water Supply, 2012, 12, 362-371.	2.1	5
197	Destruction of microbial stability in drinking water distribution systems by trace phosphorus polluted water source. Chemosphere, 2021, 275, 130032.	8.2	5
198	Contribution of extracellular polymeric substances and microbial community on the safety of drinking water quality: By mean of Cu/activated carbon biofiltration. Chemosphere, 2022, 286, 131686.	8.2	5

#	Article	IF	Citations
199	Ultrathin Bi₄O₅Br₂ nanosheets with surface oxygen vacancies and strong interaction with Bi₂O₂CO₃ for highly efficient removal of water contaminants. Environmental Science: Nano, 2022, 9, 1341-1352.	4.3	5
200	Enhancing inhibition of disinfection byproducts formation and opportunistic pathogens growth during drinking water distribution by Fe2O3/Coconut shell activated carbon. Environmental Pollution, 2021, 268, 115838.	7.5	4
201	Efficient destruction of humic acid with a self-purification process in an Fe0-FeyCz/Fex-GZIF-8-rGO aqueous suspension. Chemical Engineering Journal, 2022, 446, 136625.	12.7	4
202	Synthesis of Nanosize Mesoporous MCM-48 Material. Journal of Nanoscience and Nanotechnology, 2005, 5, 1752-1754.	0.9	3
203	Selective photocatalytic degradation of azodyes in NiO/Ag₃VO₄ suspension. Journal of Chemical Technology and Biotechnology, 2010, 85, 1522-1527.	3.2	3
204	Accelerated degradation of pollutants via a close interface connection in heterojunction, and special solid-liquid interactions. Journal of Colloid and Interface Science, 2019, 553, 598-605.	9.4	3
205	Effect of Ammonia Thermal Treatment on the Structure and Activity of Titanium Oxide Photocatalysts. Chinese Journal of Chemical Physics, 2006, 19, 355-361.	1.3	2
206	Degradation of ofloxacin in aqueous solution with UV/H2O2. , 0, 72, 386-393.		2
207	CoO anchored on boron nitride nanobelts for efficient removal of water contaminants by peroxymonosulfate activation. Chemical Engineering Journal, 2022, 430, 132915.	12.7	2
208	Surface-Confined Destruction of Pollutants with H2O2 Assistance over Cu0@CuOx-N-Graphitic Carbon Suspensions. Journal of Physical Chemistry C, 2022, 126, 1366-1375.	3.1	2
209	Solar Photocatalytic Disinfection by Nano-Ag-Based Photocatalyst. Green Chemistry and Sustainable Technology, 2017, , 129-153.	0.7	1