

Teik-Thye Lim

List of Publications by Year in descending order

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255
papers

21,298
citations

7568

77
h-index

11052

137
g-index

259
all docs

259
docs citations

259
times ranked

18863
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of sulfate radical through heterogeneous catalysis for organic contaminants removal: Current development, challenges and prospects. <i>Applied Catalysis B: Environmental</i> , 2016, 194, 169-201.	20.2	1,966
2	Application of layered double hydroxides for removal of oxyanions: A review. <i>Water Research</i> , 2008, 42, 1343-1368.	11.3	1,423
3	Conversion of sewage sludge to clean solid fuel using hydrothermal carbonization: Hydrochar fuel characteristics and combustion behavior. <i>Applied Energy</i> , 2013, 111, 257-266.	10.1	727
4	Template-free Formation of Uniform Urchin-like FeOOH Hollow Spheres with Superior Capability for Water Treatment. <i>Advanced Materials</i> , 2012, 24, 1111-1116.	21.0	504
5	Graphene- and CNTs-based carbocatalysts in persulfates activation: Material design and catalytic mechanisms. <i>Chemical Engineering Journal</i> , 2018, 354, 941-976.	12.7	448
6	Enhancing sulfacetamide degradation by peroxymonosulfate activation with N-doped graphene produced through delicately-controlled nitrogen functionalization via tweaking thermal annealing processes. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 243-257.	20.2	416
7	Evaluation of kapok (<i>Ceiba pentandra</i> (L.) Gaertn.) as a natural hollow hydrophobic-oleophilic fibrous sorbent for oil spill cleanup. <i>Chemosphere</i> , 2007, 66, 955-963.	8.2	344
8	Recent development of mixed metal oxide anodes for electrochemical oxidation of organic pollutants in water. <i>Applied Catalysis A: General</i> , 2014, 480, 58-78.	4.3	269
9	$\text{N}^{\delta-}\text{S}^{\delta-}$ tridoped TiO_2 for photocatalytic degradation of tetracycline under visible-light irradiation. <i>Applied Catalysis A: General</i> , 2011, 399, 252-261.	4.3	267
10	Hierarchical TiO_2 Nanoflakes and Nanoparticles Hybrid Structure for Improved Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2772-2780.	3.1	262
11	Design and application of heterogeneous catalysts as peroxydisulfate activator for organics removal: An overview. <i>Chemical Engineering Journal</i> , 2019, 358, 110-133.	12.7	248
12	Shear-strength characteristics of a residual soil. <i>Canadian Geotechnical Journal</i> , 1995, 32, 60-77.	2.8	244
13	Enhancing the catalytic activity of g-C ₃ N ₄ through Me doping (Me = Cu, Co and Fe) for selective sulfathiazole degradation via redox-based advanced oxidation process. <i>Chemical Engineering Journal</i> , 2017, 323, 260-269.	12.7	243
14	Solvothermal synthesis of N codoped TiO_2 and photocatalytic evaluation for bisphenol A degradation using a visible-light irradiated LED photoreactor. <i>Applied Catalysis B: Environmental</i> , 2010, 100, 355-364.	20.2	236
15	Adsorption-photocatalytic degradation of Acid Red 88 by supported TiO_2 : Effect of activated carbon support and aqueous anions. <i>Chemical Engineering Journal</i> , 2011, 171, 1098-1107.	12.7	234
16	Geochemistry of inorganic arsenic and selenium in a tropical soil: effect of reaction time, pH, and competitive anions on arsenic and selenium adsorption. <i>Chemosphere</i> , 2004, 55, 849-859.	8.2	233
17	Removal of cytostatic drugs from aquatic environment: A review. <i>Science of the Total Environment</i> , 2013, 445-446, 281-298.	8.0	233
18	Enhanced photocatalytic degradation of bisphenol A with Ag-decorated S-doped g-C ₃ N ₄ under solar irradiation: Performance and mechanistic studies. <i>Chemical Engineering Journal</i> , 2018, 333, 739-749.	12.7	209

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19	Hydrothermal gasification of sewage sludge and model compounds for renewable hydrogen production: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 39, 1127-1142.	16.4	207
20	Emergency water supply: A review of potential technologies and selection criteria. <i>Water Research</i> , 2012, 46, 3125-3151.	11.3	204
21	Fate and distribution of heavy metals during thermal processing of sewage sludge. <i>Fuel</i> , 2018, 226, 721-744.	6.4	203
22	Effect of rainfall on matric suctions in a residual soil slope. <i>Canadian Geotechnical Journal</i> , 1996, 33, 618-628.	2.8	202
23	Comparative evaluation of iodoacids removal by UV/persulfate and UV/H ₂ O ₂ processes. <i>Water Research</i> , 2016, 102, 629-639.	11.3	202
24	Catalytic Reduction of Chlorobenzenes with Pd/Fe Nanoparticles: % Reactive Sites, Catalyst Stability, Particle Aging, and Regeneration. <i>Environmental Science & Technology</i> , 2007, 41, 7523-7529.	10.0	196
25	Surface-active bismuth ferrite as superior peroxymonosulfate activator for aqueous sulfamethoxazole removal: Performance, mechanism and quantification of sulfate radical. <i>Journal of Hazardous Materials</i> , 2017, 325, 71-81.	12.4	193
26	Ag-AgBr/TiO ₂ /RGO nanocomposite for visible-light photocatalytic degradation of penicillin G. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4718.	10.3	190
27	Zr-doped TiO ₂ for enhanced photocatalytic degradation of bisphenol A. <i>Applied Catalysis A: General</i> , 2010, 375, 107-115.	4.3	178
28	SERS-Encoded Nanogapped Plasmonic Nanoparticles: Growth of Metallic Nanoshell by Templating Redox-Active Polymer Brushes. <i>Journal of the American Chemical Society</i> , 2014, 136, 6838-6841.	13.7	174
29	A novel quasi-cubic CuFe ₂ O ₄ -Fe ₂ O ₃ catalyst prepared at low temperature for enhanced oxidation of bisphenol A via peroxymonosulfate activation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22208-22217.	10.3	169
30	Insights into the thermolytic transformation of lignocellulosic biomass waste to redox-active carbocatalyst: Durability of surface active sites. <i>Applied Catalysis B: Environmental</i> , 2018, 233, 120-129.	20.2	169
31	Enhanced Arsenic Removal by Hydrothermally Treated Nanocrystalline Mg/Al Layered Double Hydroxide with Nitrate Intercalation. <i>Environmental Science & Technology</i> , 2009, 43, 2537-2543.	10.0	168
32	Treatment of organics in reverse osmosis concentrate from a municipal wastewater reclamation plant: Feasibility test of advanced oxidation processes with/without pretreatment. <i>Chemical Engineering Journal</i> , 2011, 166, 932-939.	12.7	166
33	Carbon-Based Sorbents with Three-Dimensional Architectures for Water Remediation. <i>Small</i> , 2015, 11, 3319-3336.	10.0	166
34	TiO ₂ /AC Composites for Synergistic Adsorption-Photocatalysis Processes: Present Challenges and Further Developments for Water Treatment and Reclamation. <i>Critical Reviews in Environmental Science and Technology</i> , 2011, 41, 1173-1230.	12.8	164
35	Insights into nitrogen and boron-co-doped graphene toward high-performance peroxymonosulfate activation: Maneuverable N-B bonding configurations and oxidation pathways. <i>Applied Catalysis B: Environmental</i> , 2019, 253, 419-432.	20.2	163
36	Performance of magnetic activated carbon composite as peroxymonosulfate activator and regenerable adsorbent via sulfate radical-mediated oxidation processes. <i>Journal of Hazardous Materials</i> , 2015, 284, 1-9.	12.4	158

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37	Evaluation of hydrophobicity/oleophilicity of kapok and its performance in oily water filtration: Comparison of raw and solvent-treated fibers. <i>Industrial Crops and Products</i> , 2007, 26, 125-134.	5.2	155
38	Kinetic and mechanistic investigation of azathioprine degradation in water by UV, UV/H ₂ O ₂ and UV/persulfate. <i>Chemical Engineering Journal</i> , 2016, 302, 526-534.	12.7	153
39	Elucidation of stoichiometric efficiency, radical generation and transformation pathway during catalytic oxidation of sulfamethoxazole via peroxymonosulfate activation. <i>Water Research</i> , 2019, 151, 64-74.	11.3	148
40	Performance and mechanism of a hydrophobic-oleophilic kapok filter for oil/water separation. <i>Desalination</i> , 2006, 190, 295-307.	8.2	144
41	Photocatalytic degradation of bisphenol-A by nitrogen-doped TiO ₂ hollow sphere in a vis-LED photoreactor. <i>Applied Catalysis B: Environmental</i> , 2010, 95, 414-422.	20.2	143
42	Ag-decorated TiO ₂ photocatalytic membrane with hierarchical architecture: Photocatalytic and anti-bacterial activities. <i>Water Research</i> , 2014, 59, 207-218.	11.3	128
43	Carbon-sensitized and nitrogen-doped TiO ₂ for photocatalytic degradation of sulfanilamide under visible-light irradiation. <i>Water Research</i> , 2011, 45, 5015-5026.	11.3	126
44	Pathways and kinetics of carbon tetrachloride and chloroform reductions by nano-scale Fe and Fe/Ni particles: comparison with commercial micro-scale Fe and Zn. <i>Chemosphere</i> , 2005, 59, 1267-1277.	8.2	122
45	High surface area DPA-hematite for efficient detoxification of bisphenol A via peroxymonosulfate activation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15836-15845.	10.3	122
46	Urea-assisted one-step synthesis of cobalt ferrite impregnated ceramic membrane for sulfamethoxazole degradation via peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , 2018, 343, 737-747.	12.7	119
47	Comparison of amoxicillin photodegradation in the UV/H ₂ O ₂ and UV/persulfate systems: Reaction kinetics, degradation pathways, and antibacterial activity. <i>Chemical Engineering Journal</i> , 2019, 372, 420-428.	12.7	115
48	Superabsorbent Cryogels Decorated with Silver Nanoparticles as a Novel Water Technology for Point-of-Use Disinfection. <i>Environmental Science & Technology</i> , 2013, 47, 9363-9371.	10.0	113
49	Characteristics of incineration ash for sustainable treatment and reutilization. <i>Environmental Science and Pollution Research</i> , 2019, 26, 16974-16997.	5.3	113
50	Chemical recycling of plastic waste for sustainable material management: A prospective review on catalysts and processes. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111866.	16.4	110
51	Low-temperature synthesis of graphene/Bi ₂ Fe ₄ O ₉ composite for synergistic adsorption-photocatalytic degradation of hydrophobic pollutant under solar irradiation. <i>Chemical Engineering Journal</i> , 2015, 262, 1022-1032.	12.7	106
52	Reductive dechlorination of 1,2,4-trichlorobenzene with palladized nanoscale Fe ₀ particles supported on chitosan and silica. <i>Chemosphere</i> , 2006, 65, 1137-1145.	8.2	104
53	A novel three-dimensional spherical CuBi ₂ O ₄ consisting of nanocolumn arrays with persulfate and peroxymonosulfate activation functionalities for 1H-benzotriazole removal. <i>Nanoscale</i> , 2015, 7, 8149-8158.	5.6	104
54	Processing of flexible plastic packaging waste into pyrolysis oil and multi-walled carbon nanotubes for electrocatalytic oxygen reduction. <i>Journal of Hazardous Materials</i> , 2020, 387, 121256.	12.4	103

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55	Influences of co-existing species on the sorption of toxic oxyanions from aqueous solution by nanocrystalline Mg/Al layered double hydroxide. <i>Journal of Hazardous Materials</i> , 2010, 180, 401-408.	12.4	100
56	Facile room-temperature synthesis of carboxylated graphene oxide-copper sulfide nanocomposite with high photodegradation and disinfection activities under solar light irradiation. <i>Scientific Reports</i> , 2015, 5, 16369.	3.3	100
57	Influences of Amphiphiles on Dechlorination of a Trichlorobenzene by Nanoscale Pd/Fe: Adsorption, Reaction Kinetics, and Interfacial Interactions. <i>Environmental Science & Technology</i> , 2008, 42, 4513-4519.	10.0	98
58	Catalytic hydrodechlorination of chlorophenols by Pd/Fe nanoparticles: Comparisons with other bimetallic systems, kinetics and mechanism. <i>Separation and Purification Technology</i> , 2010, 76, 206-214.	7.9	96
59	Synergistic catalytic degradation of antibiotic sulfamethazine in a heterogeneous sonophotolytic goethite/oxalate Fenton-like system. <i>Applied Catalysis B: Environmental</i> , 2013, 136-137, 294-301.	20.2	96
60	Facile synthesis of pure g-C ₃ N ₄ materials for peroxymonosulfate activation to degrade bisphenol A: Effects of precursors and annealing ambience on catalytic oxidation. <i>Chemical Engineering Journal</i> , 2020, 387, 123726.	12.7	95
61	Pore-functionalized ceramic membrane with isotropically impregnated cobalt oxide for sulfamethoxazole degradation and membrane fouling elimination: Synergistic effect between catalytic oxidation and membrane separation. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 37-46.	20.2	94
62	Process evaluation for optimization of EDTA use and recovery for heavy metal removal from a contaminated soil. <i>Chemosphere</i> , 2005, 58, 1031-1040.	8.2	91
63	Highly stable heterostructured Ag@AgBr/TiO ₂ composite: a bifunctional visible-light active photocatalyst for destruction of ibuprofen and bacteria. <i>Journal of Materials Chemistry</i> , 2012, 22, 23149.	6.7	91
64	Effects of sewage sludge organic and inorganic constituents on the properties of pyrolysis products. <i>Energy Conversion and Management</i> , 2019, 196, 1410-1419.	9.2	89
65	Chelating-Agent-Enhanced Heavy Metal Extraction from a Contaminated Acidic Soil. <i>Journal of Environmental Engineering, ASCE</i> , 2004, 130, 59-66.	1.4	88
66	Washing enhanced electrokinetic remediation for removal cadmium from real contaminated soil. <i>Journal of Hazardous Materials</i> , 2005, 123, 165-175.	12.4	86
67	Insights into the speciation of heavy metals during pyrolysis of industrial sludge. <i>Science of the Total Environment</i> , 2019, 691, 232-242.	8.0	86
68	Environmental impact assessment of converting flexible packaging plastic waste to pyrolysis oil and multi-walled carbon nanotubes. <i>Journal of Hazardous Materials</i> , 2020, 390, 121449.	12.4	86
69	Aging characteristics and reactivity of two types of nanoscale zero-valent iron particles (Fe ⁰ and Fe ⁰ /Fe ₃ O ₄) in the presence of organic matter. <i>Journal of Hazardous Materials</i> , 2014, 273, 127-135.	12.7	85
70	Rapid degradation of sulfonamides in a novel heterogeneous sonophotochemical magnetite-catalyzed Fenton-like (US/UV/Fe ₃ O ₄ /oxalate) system. <i>Applied Catalysis B: Environmental</i> , 2014, 160-161, 325-334.	20.2	85
71	Arsenic fractionation in a fine soil fraction and influence of various anions on its mobility in the subsurface environment. <i>Applied Geochemistry</i> , 2005, 20, 229-239.	3.0	84
72	Effect of aqueous matrix species on synergistic removal of bisphenol-A under solar irradiation using nitrogen-doped TiO ₂ /AC composite. <i>Applied Catalysis B: Environmental</i> , 2011, 101, 709-717.	20.2	84

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73	Preparation of carbon-sensitized and Fe ³⁺ /Er codoped TiO ₂ with response surface methodology for bisphenol A photocatalytic degradation under visible-light irradiation. <i>Applied Catalysis B: Environmental</i> , 2012, 126, 121-133.	20.2	83
74	Sorption characteristics and mechanisms of oxyanions and oxyhalides having different molecular properties on Mg/Al layered double hydroxide nanoparticles. <i>Journal of Hazardous Materials</i> , 2010, 179, 818-827.	12.4	82
75	Catalytically active nitrogen-doped porous carbon derived from biowastes for organics removal via peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , 2019, 374, 947-957.	12.7	82
76	Surface-nucleated heterogeneous growth of zeolitic imidazolate framework α A unique precursor towards catalytic ceramic membranes: Synthesis, characterization and organics degradation. <i>Chemical Engineering Journal</i> , 2018, 353, 69-79.	12.7	81
77	Application of sequential extraction analysis to electrokinetic remediation of cadmium, nickel and zinc from contaminated soils. <i>Journal of Hazardous Materials</i> , 2010, 184, 547-554.	12.4	80
78	Highly efficient and stable Ag ⁺ /AgBr/TiO ₂ composites for destruction of <i>Escherichia coli</i> under visible light irradiation. <i>Water Research</i> , 2013, 47, 4148-4158.	11.3	80
79	In-situ stabilization of Pb, Zn, Cu, Cd and Ni in the multi-contaminated sediments with ferrihydrite and apatite composite additives. <i>Journal of Hazardous Materials</i> , 2009, 170, 1093-1100.	12.4	79
80	Electrochemical treatment of olive mill wastewater. <i>Journal of Chemical Technology and Biotechnology</i> , 2007, 82, 663-671.	3.2	77
81	Bactericidal Mechanisms Revealed for Rapid Water Disinfection by Superabsorbent Cryogels Decorated with Silver Nanoparticles. <i>Environmental Science & Technology</i> , 2015, 49, 2310-2318.	10.0	77
82	Chelating agent-assisted electrokinetic removal of cadmium, lead and copper from contaminated soils. <i>Environmental Pollution</i> , 2009, 157, 3379-3386.	7.5	76
83	Products evolution during hydrothermal conversion of dewatered sewage sludge in sub- and near-critical water: Effects of reaction conditions and calcium oxide additive. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 5776-5787.	7.1	76
84	A hot syngas purification system integrated with downdraft gasification of municipal solid waste. <i>Applied Energy</i> , 2019, 237, 227-240.	10.1	76
85	Kinetic modeling and energy efficiency of UV/H ₂ O ₂ treatment of iodinated trihalomethanes. <i>Water Research</i> , 2015, 75, 259-269.	11.3	74
86	Synthesis and characterization of nitrogen-doped TiO ₂ /AC composite for the adsorption α photocatalytic degradation of aqueous bisphenol-A using solar light. <i>Catalysis Today</i> , 2010, 151, 8-13.	4.4	73
87	Photodegradation of iodinated trihalomethanes in aqueous solution by UV 254 irradiation. <i>Water Research</i> , 2014, 49, 275-285.	11.3	73
88	Electrochemical oxidation of stabilized landfill leachate on DSA electrodes. <i>Journal of Hazardous Materials</i> , 2011, 190, 460-465.	12.4	71
89	Effect of hexamethylenetetramine on the visible-light photocatalytic activity of C ⁺ /N codoped TiO ₂ for bisphenol A degradation: evaluation of photocatalytic mechanism and solution toxicity. <i>Applied Catalysis A: General</i> , 2011, 399, 233-241.	4.3	67
90	Chelate Agents Enhanced Electrokinetic Remediation for Removal Cadmium and Zinc by Conditioning Catholyte pH. <i>Water, Air, and Soil Pollution</i> , 2006, 172, 295-312.	2.4	66

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91	Assessment of the use of spent copper slag for land reclamation. <i>Waste Management and Research</i> , 2006, 24, 67-73.	3.9	66
92	A high-performance UV/visible photodetector of Cu ₂ O/ZnO hybrid nanofilms on SWNT-based flexible conducting substrates. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9536-9542.	5.5	66
93	Surface construction of nitrogen-doped chitosan-derived carbon nanosheets with hierarchically porous structure for enhanced sulfacetamide degradation via peroxymonosulfate activation: Maneuverable porosity and active sites. <i>Chemical Engineering Journal</i> , 2020, 382, 122908.	12.7	65
94	High-permeability pluronic-based TiO ₂ hybrid photocatalytic membrane with hierarchical porosity: Fabrication, characterizations and performances. <i>Chemical Engineering Journal</i> , 2013, 228, 1030-1039.	12.7	64
95	Conversion of non-condensable pyrolysis gases from plastics into carbon nanomaterials: Effects of feedstock and temperature. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 124, 16-24.	5.5	64
96	Effects of anions on the kinetics and reactivity of nanoscale Pd/Fe in trichlorobenzene dechlorination. <i>Chemosphere</i> , 2008, 73, 1471-1477.	8.2	62
97	Nonradical transformation of sulfamethoxazole by carbon nanotube activated peroxydisulfate: Kinetics, mechanism and product toxicity. <i>Chemical Engineering Journal</i> , 2019, 378, 122147.	12.7	62
98	Hybrid catalytic ozonation-membrane filtration process with CeO _x and MnO _x impregnated catalytic ceramic membranes for micropollutants degradation. <i>Chemical Engineering Journal</i> , 2019, 378, 121670.	12.7	62
99	Sonopholytic degradation of azo dye reactive black 5 in an ultrasound/UV/ferric system and the roles of different organic ligands. <i>Water Research</i> , 2011, 45, 2915-2924.	11.3	61
100	Experimental study on visible-light induced photocatalytic oxidation of gaseous formaldehyde by polyester fiber supported photocatalysts. <i>Chemical Engineering Journal</i> , 2013, 218, 9-18.	12.7	59
101	A facile synthesis of monodispersed hierarchical layered double hydroxide on silica spheres for efficient removal of pharmaceuticals from water. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3877.	10.3	59
102	Upgrading of non-condensable pyrolysis gas from mixed plastics through catalytic decomposition and dechlorination. <i>Fuel Processing Technology</i> , 2018, 170, 13-20.	7.2	59
103	Pyrolysis derived char from municipal and industrial sludge: Impact of organic decomposition and inorganic accumulation on the fuel characteristics of char. <i>Waste Management</i> , 2019, 83, 131-141.	7.4	59
104	Solar regeneration of powdered activated carbon impregnated with visible-light responsive photocatalyst: Factors affecting performances and predictive model. <i>Water Research</i> , 2012, 46, 3054-3064.	11.3	58
105	In situ grown metallic nickel from X ²⁺ Ni (X=La, Mg, Sr) oxides for converting plastics into carbon nanotubes: Influence of metal ²⁺ support interaction. <i>Journal of Cleaner Production</i> , 2020, 258, 120633.	9.3	58
106	Solvothermal synthesis of Fe ³⁺ C codoped TiO ₂ nanoparticles for visible-light photocatalytic removal of emerging organic contaminants in water. <i>Applied Catalysis A: General</i> , 2011, 409-410, 257-266.	4.3	57
107	In situ oil/water separation using hydrophobic ²⁺ oleophilic fibrous wall: A lab-scale feasibility study for groundwater cleanup. <i>Journal of Hazardous Materials</i> , 2006, 137, 820-826.	12.4	56
108	Enhanced activation of peroxydisulfate by CuO decorated on hexagonal boron nitride for bisphenol A removal. <i>Chemical Engineering Journal</i> , 2020, 393, 124714.	12.7	55

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109	Poisoning effects of H ₂ S and HCl on the naphthalene steam reforming and water-gas shift activities of Ni and Fe catalysts. <i>Fuel</i> , 2019, 241, 1008-1018.	6.4	54
110	Contamination Time Effect on Lead and Cadmium Fractionation in a Tropical Coastal Clay. <i>Journal of Environmental Quality</i> , 2002, 31, 806.	2.0	53
111	Multi-heteroatom-doped carbocatalyst as peroxymonosulfate and peroxydisulfate activator for water purification: A critical review. <i>Journal of Hazardous Materials</i> , 2022, 426, 128077.	12.4	53
112	Simultaneous degradation of 4CP and EDTA in a heterogeneous Ultrasound/Fenton like system at ambient circumstance. <i>Separation and Purification Technology</i> , 2009, 68, 367-374.	7.9	52
113	Design and synthesis of ice-templated PSA cryogels for water purification: towards tailored morphology and properties. <i>Soft Matter</i> , 2013, 9, 224-234.	2.7	51
114	Single-crystalline Bi ₂ Fe ₄ O ₉ synthesized by low-temperature co-precipitation: performance as photo- and Fenton catalysts. <i>RSC Advances</i> , 2014, 4, 27820-27829.	3.6	51
115	Asymmetric TiO ₂ hybrid photocatalytic ceramic membrane with porosity gradient: Effect of structure directing agent on the resulting membranes architecture and performances. <i>Ceramics International</i> , 2014, 40, 6747-6757.	4.8	51
116	Rational design of hierarchically-structured CuBi ₂ O ₄ composites by deliberate manipulation of the nucleation and growth kinetics of CuBi ₂ O ₄ for environmental applications. <i>Nanoscale</i> , 2016, 8, 2046-2054.	5.6	51
117	A comparative study on electrochemical oxidation of bisphenol A by boron-doped diamond anode and modified SnO ₂ -Sb anodes: Influencing parameters and reaction pathways. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 2807-2815.	6.7	50
118	Degradation of cyclophosphamide and 5-fluorouracil in water using UV and UV/H ₂ O ₂ : Kinetics investigation, pathways and energetic analysis. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 1133-1139.	6.7	49
119	Evaluation of the effect of dosage, pH and contact time on high-dose phosphate inhibition for copper corrosion control using response surface methodology (RSM). <i>Corrosion Science</i> , 2008, 50, 918-927.	6.6	48
120	Direct and indirect photodegradation pathways of cytostatic drugs under UV germicidal irradiation: Process kinetics and influences of water matrix species and oxidant dosing. <i>Journal of Hazardous Materials</i> , 2017, 324, 481-488.	12.4	46
121	Thermodynamic analyses of synthetic natural gas production via municipal solid waste gasification, high-temperature water electrolysis and methanation. <i>Energy Conversion and Management</i> , 2019, 202, 112160.	9.2	46
122	Acetic acid-assisted fabrication of hierarchical flower-like Bi ₂ O ₃ for photocatalytic degradation of sulfamethoxazole and rhodamine B under solar irradiation. <i>Journal of Colloid and Interface Science</i> , 2017, 505, 489-499.	9.4	45
123	Evaluation of a submerged membrane vis-LED photoreactor (sMPR) for carbamazepine degradation and TiO ₂ separation. <i>Chemical Engineering Journal</i> , 2013, 215-216, 240-251.	12.7	44
124	Hierarchically-structured Co ²⁺ -CuBi ₂ O ₄ and Cu ²⁺ -CuBi ₂ O ₄ for sulfanilamide removal via peroxymonosulfate activation. <i>Catalysis Today</i> , 2017, 280, 2-7.	4.4	44
125	Kinetic and mechanistic examinations of reductive transformation pathways of brominated methanes with nano-scale Fe and Ni/Fe particles. <i>Water Research</i> , 2007, 41, 875-883.	11.3	43
126	Ultrafast Synthesis of Layered Titanate Microspherulite Particles by Electrochemical Spark Discharge Spallation. <i>Chemistry - A European Journal</i> , 2010, 16, 7704-7708.	3.3	43

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127	Cuboid-like Bi ₂ Fe ₄ O ₉ /Ag with Graphene-Wrapping Tribrid Composite with Superior Capability for Environmental Decontamination: Nanoscaled Material Design and Visible-Light-Driven Multifunctional Catalyst. ACS Sustainable Chemistry and Engineering, 2015, 3, 2726-2736.	6.7	43
128	The role and fate of EDTA in ultrasound-enhanced zero-valent iron/air system. Chemosphere, 2010, 78, 576-582.	8.2	42
129	Nitrogen-doped TiO ₂ /AC bi-functional composite prepared by two-stage calcination for enhanced synergistic removal of hydrophobic pollutant using solar irradiation. Catalysis Today, 2011, 161, 46-52.	4.4	41
130	Preparation, characterization and performance of a novel visible light responsive spherical activated carbon-supported and Er ³⁺ :YFeO ₃ -doped TiO ₂ photocatalyst. Journal of Hazardous Materials, 2012, 199-200, 301-308.	12.4	40
131	Iron-mediated reduction rates and pathways of halogenated methanes with nanoscale Pd/Fe: Analysis of linear free energy relationship. Chemosphere, 2007, 66, 1765-1774.	8.2	39
132	Membrane vis-LED photoreactor for simultaneous penicillin G degradation and TiO ₂ separation. Water Research, 2012, 46, 1825-1837.	11.3	39
133	Polyacrylonitrile (PAN)-induced carbon membrane with in-situ encapsulated cobalt crystal for hybrid peroxymonosulfate oxidation-filtration process: Preparation, characterization and performance evaluation. Chemical Engineering Journal, 2019, 373, 425-436.	12.7	39
134	Evaluation of the cycling performance of a sorbent for H ₂ S removal and simulation of desulfurization-regeneration processes. Chemical Engineering Journal, 2017, 326, 1255-1265.	12.7	38
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