Shaobin Wang

List of Publications by Year in descending order

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		211	1051
602	71,880	147	234
papers	citations	h-index	g-index
613	613	613	43653
all docs	docs citations	times ranked	citing authors

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#	Article	IF	CITATIONS
1	Natural zeolites as effective adsorbents in water and wastewater treatment. Chemical Engineering Journal, 2010, 156, 11-24.	12.7	1,692
2	Metal-Free Carbocatalysis in Advanced Oxidation Reactions. Accounts of Chemical Research, 2018, 51, 678-687.	15.6	968
3	Catalytic Removal of Aqueous Contaminants on N-Doped Graphitic Biochars: Inherent Roles of Adsorption and Nonradical Mechanisms. Environmental Science & Technology, 2018, 52, 8649-8658.	10.0	820
4	Persulfate Activation on Crystallographic Manganese Oxides: Mechanism of Singlet Oxygen Evolution for Nonradical Selective Degradation of Aqueous Contaminants. Environmental Science & Technology, 2019, 53, 307-315.	10.0	817
5	N-Doping-Induced Nonradical Reaction on Single-Walled Carbon Nanotubes for Catalytic Phenol Oxidation. ACS Catalysis, 2015, 5, 553-559.	11.2	772
6	Removal of dyes from aqueous solution using fly ash and red mud. Water Research, 2005, 39, 129-138.	11.3	737
7	Nonradical reactions in environmental remediation processes: Uncertainty and challenges. Applied Catalysis B: Environmental, 2018, 224, 973-982.	20.2	694
8	Carbon Dioxide Reforming of Methane To Produce Synthesis Gas over Metal-Supported Catalysts:  State of the Art. Energy & Fuels, 1996, 10, 896-904.	5.1	688
9	Nitrogen-Doped Graphene for Generation and Evolution of Reactive Radicals by Metal-Free Catalysis. ACS Applied Materials & Interfaces, 2015, 7, 4169-4178.	8.0	677
10	Insights into Heterogeneous Catalysis of Persulfate Activation on Dimensional-Structured Nanocarbons. ACS Catalysis, 2015, 5, 4629-4636.	11.2	642
11	Reduced Graphene Oxide for Catalytic Oxidation of Aqueous Organic Pollutants. ACS Applied Materials & Interfaces, 2012, 4, 5466-5471.	8.0	636
12	Adsorptive remediation of environmental pollutants using novel graphene-based nanomaterials. Chemical Engineering Journal, 2013, 226, 336-347.	12.7	598
13	Ordered mesoporous materials for drug delivery. Microporous and Mesoporous Materials, 2009, 117, 1-9.	4.4	591
14	Occurrence of radical and nonradical pathways from carbocatalysts for aqueous and nonaqueous catalytic oxidation. Applied Catalysis B: Environmental, 2016, 188, 98-105.	20.2	570
15	Sulfur and Nitrogen Co-Doped Graphene for Metal-Free Catalytic Oxidation Reactions. Small, 2015, 11, 3036-3044.	10.0	567
16	Volatile organic compounds in indoor environment and photocatalytic oxidation: State of the art. Environment International, 2007, 33, 694-705.	10.0	558
17	Synthesis, characterization, and adsorption properties of magnetic Fe3O4@graphene nanocomposite. Chemical Engineering Journal, 2012, 184, 326-332.	12.7	549
18	The Intrinsic Nature of Persulfate Activation and N-Doping in Carbocatalysis. Environmental Science & Technology, 2020, 54, 6438-6447.	10.0	536

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19	Single-atom catalysis in advanced oxidation processes for environmental remediation. Chemical Society Reviews, 2021, 50, 5281-5322.	38.1	502
20	Recent advances in transition metal-based electrocatalysts for alkaline hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 14971-15005.	10.3	501
21	A Comparative study of Fenton and Fenton-like reaction kinetics in decolourisation of wastewater. Dyes and Pigments, 2008, 76, 714-720.	3.7	496
22	Activation of Peroxydisulfate on Carbon Nanotubes: Electron-Transfer Mechanism. Environmental Science & Technology, 2019, 53, 14595-14603.	10.0	464
23	Insights into the Electron-Transfer Regime of Peroxydisulfate Activation on Carbon Nanotubes: The Role of Oxygen Functional Groups. Environmental Science & Technology, 2020, 54, 1267-1275.	10.0	452
24	A review on photocatalysis for air treatment: From catalyst development to reactor design. Chemical Engineering Journal, 2017, 310, 537-559.	12.7	449
25	Different Crystallographic One-dimensional MnO ₂ Nanomaterials and Their Superior Performance in Catalytic Phenol Degradation. Environmental Science & Technology, 2013, 47, 5882-5887.	10.0	446
26	Origins of Electron-Transfer Regime in Persulfate-Based Nonradical Oxidation Processes. Environmental Science & Technology, 2022, 56, 78-97.	10.0	445
27	Magnetic recoverable MnFe2O4 and MnFe2O4-graphene hybrid as heterogeneous catalysts of peroxymonosulfate activation for efficient degradation of aqueous organic pollutants. Journal of Hazardous Materials, 2014, 270, 61-70.	12.4	439
28	Novel applications of red mud as coagulant, adsorbent and catalyst for environmentally benign processes. Chemosphere, 2008, 72, 1621-1635.	8.2	437
29	Catalytic oxidation of organic pollutants on pristine and surface nitrogen-modified carbon nanotubes with sulfate radicals. Applied Catalysis B: Environmental, 2014, 154-155, 134-141.	20.2	437
30	Manganese oxides at different oxidation states for heterogeneous activation of peroxymonosulfate for phenol degradation in aqueous solutions. Applied Catalysis B: Environmental, 2013, 142-143, 729-735.	20.2	435
31	Insights into perovskite-catalyzed peroxymonosulfate activation: Maneuverable cobalt sites for promoted evolution of sulfate radicals. Applied Catalysis B: Environmental, 2018, 220, 626-634.	20.2	428
32	Role of CeO2 in Ni/CeO2–Al2O3 catalysts for carbon dioxide reforming of methane. Applied Catalysis B: Environmental, 1998, 19, 267-277.	20.2	424
33	Environmental-benign utilisation of fly ash as low-cost adsorbents. Journal of Hazardous Materials, 2006, 136, 482-501.	12.4	406
34	Surface controlled generation of reactive radicals from persulfate by carbocatalysis on nanodiamonds. Applied Catalysis B: Environmental, 2016, 194, 7-15.	20.2	390
35	Mechanistic investigation of the enhanced NH3-SCR on cobalt-decorated Ce-Ti mixed oxide: In situ FTIR analysis for structure-activity correlation. Applied Catalysis B: Environmental, 2017, 200, 297-308.	20.2	388
36	Phosphate removal from wastewater using red mud. Journal of Hazardous Materials, 2008, 158, 35-42.	12.4	380

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37	Activated carbon supported cobalt catalysts for advanced oxidation of organic contaminants in aqueous solution. Applied Catalysis B: Environmental, 2010, 100, 529-534.	20.2	373
38	An insight into metal organic framework derived N-doped graphene for the oxidative degradation of persistent contaminants: formation mechanism and generation of singlet oxygen from peroxymonosulfate. Environmental Science: Nano, 2017, 4, 315-324.	4.3	372
39	Identification and Regulation of Active Sites on Nanodiamonds: Establishing a Highly Efficient Catalytic System for Oxidation of Organic Contaminants. Advanced Functional Materials, 2018, 28, 1705295.	14.9	370
40	Sulfate radicals induced from peroxymonosulfate by cobalt manganese oxides (Co x Mn 3â´'x O 4) for Fenton-Like reaction in water. Journal of Hazardous Materials, 2015, 296, 128-137.	12.4	363
41	Unveiling the active sites of graphene-catalyzed peroxymonosulfate activation. Carbon, 2016, 107, 371-378.	10.3	359
42	Application of zeolite MCM-22 for basic dye removal from wastewater. Journal of Colloid and Interface Science, 2006, 295, 71-78.	9.4	357
43	Recent advances in non-metal modification of graphitic carbon nitride for photocatalysis: a historic review. Catalysis Science and Technology, 2016, 6, 7002-7023.	4.1	350
44	N-doped graphitic biochars from C-phycocyanin extracted Spirulina residue for catalytic persulfate activation toward nonradical disinfection and organic oxidation. Water Research, 2019, 159, 77-86.	11.3	347
45	3D-hierarchically structured MnO2 for catalytic oxidation of phenol solutions by activation of peroxymonosulfate: Structure dependence and mechanism. Applied Catalysis B: Environmental, 2015, 164, 159-167.	20.2	345
46	Fe, Co, Ni nanocrystals encapsulated in nitrogen-doped carbon nanotubes as Fenton-like catalysts for organic pollutant removal. Journal of Hazardous Materials, 2016, 314, 129-139.	12.4	344
47	Magnetic core–shell CuFe2O4@C3N4 hybrids for visible light photocatalysis of Orange II. Journal of Hazardous Materials, 2015, 297, 224-233.	12.4	337
48	Wettability alteration of oil-wet carbonate by silica nanofluid. Journal of Colloid and Interface Science, 2016, 461, 435-442.	9.4	332
49	Characterisation and environmental application of an Australian natural zeolite for basic dye removal from aqueous solution. Journal of Hazardous Materials, 2006, 136, 946-952.	12.4	329
50	Hollow carbon nanobubbles: monocrystalline MOF nanobubbles and their pyrolysis. Chemical Science, 2017, 8, 3538-3546.	7.4	329
51	Dye Adsorption on Layered Graphite Oxide. Journal of Chemical & Engineering Data, 2011, 56, 138-141.	1.9	325
52	Facile synthesis of nitrogen-doped graphene via low-temperature pyrolysis: The effects of precursors and annealing ambience on metal-free catalytic oxidation. Carbon, 2017, 115, 649-658.	10.3	323
53	Porous Carbons: Structureâ€Oriented Design and Versatile Applications. Advanced Functional Materials, 2020, 30, 1909265.	14.9	316
54	Facile assembly of Bi2O3/Bi2S3/MoS2 n-p heterojunction with layered n-Bi2O3 and p-MoS2 for enhanced photocatalytic water oxidation and pollutant degradation. Applied Catalysis B: Environmental, 2017, 200, 47-55.	20.2	314

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55	Degradation of Cosmetic Microplastics via Functionalized Carbon Nanosprings. Matter, 2019, 1, 745-758.	10.0	306
56	The physical and surface chemical characteristics of activated carbons and the adsorption of methylene blue from wastewater. Journal of Colloid and Interface Science, 2005, 284, 440-446.	9.4	305
57	A novel lanthanum-modified bentonite, Phoslock, for phosphate removal from wastewaters. Applied Clay Science, 2009, 46, 369-375.	5.2	305
58	0D (MoS2)/2D (g-C3N4) heterojunctions in Z-scheme for enhanced photocatalytic and electrochemical hydrogen evolution. Applied Catalysis B: Environmental, 2018, 228, 64-74.	20.2	298
59	Facile synthesis of nitrogen doped reduced graphene oxide as a superior metal-free catalyst for oxidation. Chemical Communications, 2013, 49, 9914.	4.1	294
60	MIL-101(Fe)/g-C3N4 for enhanced visible-light-driven photocatalysis toward simultaneous reduction of Cr(VI) and oxidation of bisphenol A in aqueous media. Applied Catalysis B: Environmental, 2020, 272, 119033.	20.2	293
61	CO2 reforming of methane on Ni catalysts: Effects of the support phase and preparation technique. Applied Catalysis B: Environmental, 1998, 16, 269-277.	20.2	290
62	Potential Difference Driving Electron Transfer <i>via</i> Defective Carbon Nanotubes toward Selective Oxidation of Organic Micropollutants. Environmental Science & Technology, 2020, 54, 8464-8472.	10.0	288
63	Nanocarbons in different structural dimensions (0–3D) for phenol adsorption and metal-free catalytic oxidation. Applied Catalysis B: Environmental, 2015, 179, 352-362.	20.2	277
64	Rational Catalyst Design for N ₂ Reduction under Ambient Conditions: Strategies toward Enhanced Conversion Efficiency. ACS Catalysis, 2020, 10, 6870-6899.	11.2	273
65	Z-scheme plasmonic Ag decorated WO3/Bi2WO6 hybrids for enhanced photocatalytic abatement of chlorinated-VOCs under solar light irradiation. Applied Catalysis B: Environmental, 2019, 242, 76-84.	20.2	270
66	Oxidative degradation of dyes in water using Co2+/H2O2 and Co2+/peroxymonosulfate. Journal of Hazardous Materials, 2010, 178, 385-389.	12.4	265
67	Activation of peroxymonosulfate by carbonaceous oxygen groups: experimental and density functional theory calculations. Applied Catalysis B: Environmental, 2016, 198, 295-302.	20.2	261
68	Mixed Conducting Perovskite Materials as Superior Catalysts for Fast Aqueous-Phase Advanced Oxidation: A Mechanistic Study. ACS Catalysis, 2017, 7, 388-397.	11.2	260
69	Insights into N-doping in single-walled carbon nanotubes for enhanced activation of superoxides: a mechanistic study. Chemical Communications, 2015, 51, 15249-15252.	4.1	259
70	Iron encapsulated in boron and nitrogen codoped carbon nanotubes as synergistic catalysts for Fenton-like reaction. Water Research, 2016, 101, 281-291.	11.3	257
71	A comparative study of dye removal using fly ash treated by different methods. Chemosphere, 2005, 60, 1401-1407.	8.2	250
72	A new magnetic nano zero-valent iron encapsulated in carbon spheres for oxidative degradation of phenol. Applied Catalysis B: Environmental, 2015, 172-173, 73-81.	20.2	244

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73	Excellent performance of mesoporous Co3O4/MnO2 nanoparticles in heterogeneous activation of peroxymonosulfate for phenol degradation in aqueous solutions. Applied Catalysis B: Environmental, 2012, 127, 330-335.	20.2	243
74	N-Doped Graphene from Metal–Organic Frameworks for Catalytic Oxidation of p-Hydroxylbenzoic Acid: N-Functionality and Mechanism. ACS Sustainable Chemistry and Engineering, 2017, 5, 2693-2701.	6.7	243
75	Efficient Catalytic Ozonation over Reduced Graphene Oxide for <i>p</i> -Hydroxylbenzoic Acid (PHBA) Destruction: Active Site and Mechanism. ACS Applied Materials & Interfaces, 2016, 8, 9710-9720.	8.0	234
76	Hydrothermal Synthesis of Co ₃ O ₄ –Graphene for Heterogeneous Activation of Peroxymonosulfate for Decomposition of Phenol. Industrial & Engineering Chemistry Research, 2012, 51, 14958-14965.	3.7	231
77	New insights into heterogeneous generation and evolution processes of sulfate radicals for phenol degradation over one-dimensional I±-MnO2 nanostructures. Chemical Engineering Journal, 2015, 266, 12-20.	12.7	229
78	Geopolymeric adsorbents from fly ash for dye removal from aqueous solution. Journal of Colloid and Interface Science, 2006, 300, 52-59.	9.4	228
79	Nanosize Zr-metal organic framework (UiO-66) for hydrogen and carbon dioxide storage. Chemical Engineering Journal, 2012, 187, 415-420.	12.7	227
80	Application of Solid Ash Based Catalysts in Heterogeneous Catalysis. Environmental Science & Technology, 2008, 42, 7055-7063.	10.0	226
81	Nitrogen- and Sulfur-Codoped Hierarchically Porous Carbon for Adsorptive and Oxidative Removal of Pharmaceutical Contaminants. ACS Applied Materials & Interfaces, 2016, 8, 7184-7193.	8.0	224
82	Heterogeneous activation of peroxymonosulfate by amorphous boron for degradation of bisphenol S. Journal of Hazardous Materials, 2017, 322, 532-539.	12.4	218
83	Co3O4 quantum dots/TiO2 nanobelt hybrids for highly efficient photocatalytic overall water splitting. Applied Catalysis B: Environmental, 2018, 236, 396-403.	20.2	218
84	Magnetic ZnFe ₂ O ₄ –C ₃ N ₄ Hybrid for Photocatalytic Degradation of Aqueous Organic Pollutants by Visible Light. Industrial & Engineering Chemistry Research, 2014, 53, 17294-17302.	3.7	215
85	Nanodiamonds in sp 2 /sp 3 configuration for radical to nonradical oxidation: Core-shell layer dependence. Applied Catalysis B: Environmental, 2018, 222, 176-181.	20.2	214
86	Boosting Fenton-Like Reactions via Single Atom Fe Catalysis. Environmental Science & Technology, 2019, 53, 11391-11400.	10.0	210
87	Cobalt exchanged zeolites for heterogeneous catalytic oxidation of phenol in the presence of peroxymonosulphate. Applied Catalysis B: Environmental, 2010, 99, 163-169.	20.2	209
88	Excellent performance of copper based metal organic framework in adsorptive removal of toxic sulfonamide antibiotics from wastewater. Journal of Colloid and Interface Science, 2016, 478, 344-352.	9.4	208
89	Competitive adsorption of malachite green and Pb ions on natural zeolite. Journal of Colloid and Interface Science, 2007, 314, 25-31.	9.4	206
90	Fast and Long‣asting Iron(III) Reduction by Boron Toward Green and Accelerated Fenton Chemistry. Angewandte Chemie - International Edition, 2020, 59, 16517-16526.	13.8	206

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91	A Comprehensive Study on Carbon Dioxide Reforming of Methane over Ni/γ-Al2O3Catalysts. Industrial & Engineering Chemistry Research, 1999, 38, 2615-2625.	3.7	202
92	Catalytic Conversion of Alkanes to Olefins by Carbon Dioxide Oxidative DehydrogenationA Review. Energy & Fuels, 2004, 18, 1126-1139.	5.1	202
93	Nitrogen-doped bamboo-like carbon nanotubes with Ni encapsulation for persulfate activation to remove emerging contaminants with excellent catalytic stability. Chemical Engineering Journal, 2018, 332, 398-408.	12.7	199
94	Adsorptive removal of antibiotic sulfonamide by UiO-66 and ZIF-67 for wastewater treatment. Journal of Colloid and Interface Science, 2017, 500, 88-95.	9.4	198
95	AMP-activated protein kinase, stress responses and cardiovascular diseases. Clinical Science, 2012, 122, 555-573.	4.3	197
96	Synergistic and competitive adsorption of organic dyes on multiwalled carbon nanotubes. Chemical Engineering Journal, 2012, 197, 34-40.	12.7	196
97	Shape-controlled activation of peroxymonosulfate by single crystal α-Mn2O3 for catalytic phenol degradation in aqueous solution. Applied Catalysis B: Environmental, 2014, 154-155, 246-251.	20.2	196
98	2D/2D nano-hybrids of Î ³ -MnO 2 on reduced graphene oxide for catalytic ozonation and coupling peroxymonosulfate activation. Journal of Hazardous Materials, 2016, 301, 56-64.	12.4	195
99	Fabrication of Fe3O4/SiO2 core/shell nanoparticles attached to graphene oxide and its use as an adsorbent. Journal of Colloid and Interface Science, 2012, 379, 20-26.	9.4	194
100	Low temperature combustion synthesis of nitrogen-doped graphene for metal-free catalytic oxidation. Journal of Materials Chemistry A, 2015, 3, 3432-3440.	10.3	194
101	Bread-making synthesis of hierarchically Co@C nanoarchitecture in heteroatom doped porous carbons for oxidative degradation of emerging contaminants. Applied Catalysis B: Environmental, 2018, 225, 76-83.	20.2	194
102	Roles of structure defect, oxygen groups and heteroatom doping on carbon in nonradical oxidation of water contaminants. Water Research, 2020, 185, 116244.	11.3	194
103	Iridium-based nanomaterials for electrochemical water splitting. Nano Energy, 2020, 78, 105270.	16.0	192
104	Coal ash conversion into effective adsorbents for removal of heavy metals and dyes from wastewater. Journal of Hazardous Materials, 2006, 133, 243-251.	12.4	191
105	Removal of emulsified oil from oily wastewater using agricultural waste barley straw. Biochemical Engineering Journal, 2010, 49, 78-83.	3.6	190
106	Density Functional Theory Calculations for Insight into the Heterocatalyst Reactivity and Mechanism in Persulfate-Based Advanced Oxidation Reactions. ACS Catalysis, 2021, 11, 11129-11159.	11.2	190
107	Nano-Fe ^O Encapsulated in Microcarbon Spheres: Synthesis, Characterization, and Environmental Applications. ACS Applied Materials & amp; Interfaces, 2012, 4, 6235-6241.	8.0	189
108	Correlation of Active Sites to Generated Reactive Species and Degradation Routes of Organics in Peroxymonosulfate Activation by Co-Loaded Carbon. Environmental Science & amp; Technology, 2021, 55, 16163-16174.	10.0	189

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109	Dehydrogenation of ethane with carbon dioxide over supported chromium oxide catalysts. Applied Catalysis A: General, 2000, 196, 1-8.	4.3	188
110	Reforming of methane with carbon dioxide over Ni/Al2O3 catalysts: Effect of nickel precursor. Applied Catalysis A: General, 1998, 169, 271-280.	4.3	187
111	Solid-state conversion of fly ash to effective adsorbents for Cu removal from wastewater. Journal of Hazardous Materials, 2007, 139, 254-259.	12.4	187
112	Synthesis of porous reduced graphene oxide as metal-free carbon for adsorption and catalytic oxidation of organics in water. Journal of Materials Chemistry A, 2013, 1, 5854.	10.3	187
113	Role of oxygen vacancies and Mn sites in hierarchical Mn2O3/LaMnO3-δ perovskite composites for aqueous organic pollutants decontamination. Applied Catalysis B: Environmental, 2019, 245, 546-554.	20.2	187
114	CulnS2 quantum dots embedded in Bi2WO6 nanoflowers for enhanced visible light photocatalytic removal of contaminants. Applied Catalysis B: Environmental, 2018, 221, 215-222.	20.2	186
115	Effects of nitrogen-, boron-, and phosphorus-doping or codoping on metal-free graphene catalysis. Catalysis Today, 2015, 249, 184-191.	4.4	185
116	Layer structured graphite oxide as a novel adsorbent for humic acid removal from aqueous solution. Journal of Colloid and Interface Science, 2009, 333, 114-119.	9.4	184
117	A comparative study of spinel structured Mn3O4, Co3O4 and Fe3O4 nanoparticles in catalytic oxidation of phenolic contaminants in aqueous solutions. Journal of Colloid and Interface Science, 2013, 407, 467-473.	9.4	182
118	Heteroatom (N or Nâ€5)â€Doping Induced Layered and Honeycomb Microstructures of Porous Carbons for CO ₂ Capture and Energy Applications. Advanced Functional Materials, 2016, 26, 8651-8661.	14.9	182
119	Graphene facilitated visible light photodegradation of methylene blue over titanium dioxide photocatalysts. Chemical Engineering Journal, 2013, 214, 298-303.	12.7	181
120	Synthesis of Fe2O3 loaded porous g-C3N4 photocatalyst for photocatalytic reduction of dinitrogen to ammonia. Chemical Engineering Journal, 2019, 373, 572-579.	12.7	181
121	Photocatalytic conversion of lignocellulosic biomass to valuable products. Green Chemistry, 2019, 21, 4266-4289.	9.0	180
122	Production, properties, and catalytic applications of sludge derived biochar for environmental remediation. Water Research, 2020, 187, 116390.	11.3	180
123	Persulfate Oxidation of Sulfamethoxazole by Magnetic Iron-Char Composites via Nonradical Pathways: Fe(IV) Versus Surface-Mediated Electron Transfer. Environmental Science & Technology, 2021, 55, 10077-10086.	10.0	180
124	A comparative study of reduced graphene oxide modified TiO2, ZnO and Ta2O5 in visible light photocatalytic/photochemical oxidation of methylene blue. Applied Catalysis B: Environmental, 2014, 146, 162-168.	20.2	178
125	Understanding of the Oxidation Behavior of Benzyl Alcohol by Peroxymonosulfate via Carbon Nanotubes Activation. ACS Catalysis, 2020, 10, 3516-3525.	11.2	178
126	Black NiO-TiO2 nanorods for solar photocatalysis: Recognition of electronic structure and reaction mechanism. Applied Catalysis B: Environmental, 2018, 224, 705-714.	20.2	177

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127	ZnO/montmorillonite for photocatalytic and photochemical degradation of methylene blue. Applied Clay Science, 2011, 53, 553-560.	5.2	176
128	Upconversion carbon quantum dots as visible light responsive component for efficient enhancement of photocatalytic performance. Journal of Colloid and Interface Science, 2017, 496, 425-433.	9.4	176
129	One-pot approach for synthesis of N-doped TiO2/ZnFe2O4 hybrid as an efficient photocatalyst for degradation of aqueous organic pollutants. Journal of Hazardous Materials, 2015, 291, 28-37.	12.4	173
130	Recent progress in g-C ₃ N ₄ quantum dots: synthesis, properties and applications in photocatalytic degradation of organic pollutants. Journal of Materials Chemistry A, 2020, 8, 485-502.	10.3	173
131	Facile Synthesis of Mn ₃ O ₄ –Reduced Graphene Oxide Hybrids for Catalytic Decomposition of Aqueous Organics. Industrial & Engineering Chemistry Research, 2013, 52, 3637-3645.	3.7	171
132	Phosphorous doped carbon nitride nanobelts for photodegradation of emerging contaminants and hydrogen evolution. Applied Catalysis B: Environmental, 2019, 257, 117931.	20.2	170
133	Sensitive and selective determination of aqueous triclosan based on gold nanoparticles on polyoxometalate/reduced graphene oxide nanohybrid. RSC Advances, 2015, 5, 65953-65962.	3.6	169
134	Carbocatalytic activation of persulfate for removal of antibiotics in water solutions. Chemical Engineering Journal, 2016, 288, 399-405.	12.7	168
135	A New Metal-Free Carbon Hybrid for Enhanced Photocatalysis. ACS Applied Materials & Interfaces, 2014, 6, 16745-16754.	8.0	167
136	Facile Synthesis of Hierarchically Structured Magnetic MnO ₂ /ZnFe ₂ O ₄ Hybrid Materials and Their Performance in Heterogeneous Activation of Peroxymonosulfate. ACS Applied Materials & Interfaces, 2014, 6, 19914-19923.	8.0	166
137	Manganese oxide integrated catalytic ceramic membrane for degradation of organic pollutants using sulfate radicals. Water Research, 2019, 167, 115110.	11.3	165
138	Surface-tailored nanodiamonds as excellent metal-free catalysts for organic oxidation. Carbon, 2016, 103, 404-411.	10.3	164
139	Magnetic Ni-Co alloy encapsulated N-doped carbon nanotubes for catalytic membrane degradation of emerging contaminants. Chemical Engineering Journal, 2019, 362, 251-261.	12.7	164
140	Magnetic nitrogen-doped nanocarbons for enhanced metal-free catalytic oxidation: Integrated experimental and theoretical investigations for mechanism and application. Chemical Engineering Journal, 2018, 354, 507-516.	12.7	162
141	Disordered Atomic Packing Structure of Metallic Glass: Toward Ultrafast Hydroxyl Radicals Production Rate and Strong Electron Transfer Ability in Catalytic Performance. Advanced Functional Materials, 2017, 27, 1702258.	14.9	160
142	Engineered Graphitic Carbon Nitride-Based Photocatalysts for Visible-Light-Driven Water Splitting: A Review. Energy & Fuels, 2021, 35, 6504-6526.	5.1	160
143	Nanosized Co3O4/SiO2 for heterogeneous oxidation of phenolic contaminants in waste water. Separation and Purification Technology, 2011, 77, 230-236.	7.9	159
144	CeO2 nanocrystal-modified layered MoS2/g-C3N4 as 0D/2D ternary composite for visible-light photocatalytic hydrogen evolution: Interfacial consecutive multi-step electron transfer and enhanced H2O reactant adsorption. Applied Catalysis B: Environmental, 2019, 259, 118072.	20.2	158

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145	Kinetic modelling and mechanism of dye adsorption on unburned carbon. Dyes and Pigments, 2007, 72, 308-314.	3.7	156
146	Ferric carbide nanocrystals encapsulated in nitrogen-doped carbon nanotubes as an outstanding environmental catalyst. Environmental Science: Nano, 2017, 4, 170-179.	4.3	155
147	Revisiting the Graphitized Nanodiamond-Mediated Activation of Peroxymonosulfate: Singlet Oxygenation versus Electron Transfer. Environmental Science & Technology, 2021, 55, 16078-16087.	10.0	155
148	Flower-like MoS2 on graphitic carbon nitride for enhanced photocatalytic and electrochemical hydrogen evolutions. Applied Catalysis B: Environmental, 2018, 239, 334-344.	20.2	154
149	Halogen element modified titanium dioxide for visible light photocatalysis. Chemical Engineering Journal, 2010, 162, 437-447.	12.7	153
150	Magnetic Fe3O4/carbon sphere/cobalt composites for catalytic oxidation of phenol solutions with sulfate radicals. Chemical Engineering Journal, 2014, 245, 1-9.	12.7	153
151	Estimate of sulfur, arsenic, mercury, fluorine emissions due to spontaneous combustion of coal gangue: An important part of Chinese emission inventories. Environmental Pollution, 2016, 209, 107-113.	7.5	152
152	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. Journal of Hazardous Materials, 2020, 399, 123043.	12.4	152
153	One-pot synthesis of N-doped graphene for metal-free advanced oxidation processes. Carbon, 2016, 102, 279-287.	10.3	148
154	Co3O4 nanocrystals with predominantly exposed facets: synthesis, environmental and energy applications. Journal of Materials Chemistry A, 2013, 1, 14427.	10.3	147
155	Adsorption and heterogeneous advanced oxidation of phenolic contaminants using Fe loaded mesoporous SBA-15 and H2O2. Chemical Engineering Journal, 2010, 164, 255-260.	12.7	143
156	Research progress and materials selection guidelines on mixed conducting perovskite-type ceramic membranes for oxygen production. RSC Advances, 2011, 1, 1661.	3.6	143
157	Physical and chemical activation of reduced graphene oxide for enhanced adsorption and catalytic oxidation. Nanoscale, 2014, 6, 766-771.	5.6	143
158	Facile synthesis of carbon-doped mesoporous anatase TiO ₂ for the enhanced visible-light driven photocatalysis. Chemical Communications, 2014, 50, 13971-13974.	4.1	143
159	Effects of acidic treatments on the pore and surface properties of Ni catalyst supported on activated carbon. Carbon, 1998, 36, 283-292.	10.3	142
160	Physical and chemical regeneration of zeolitic adsorbents for dye removal in wastewater treatment. Chemosphere, 2006, 65, 82-87.	8.2	142
161	Photocatalytic Fixation of Nitrogen to Ammonia by Single Ru Atom Decorated TiO ₂ Nanosheets. ACS Sustainable Chemistry and Engineering, 2019, 7, 6813-6820.	6.7	142
162	Adsorption of Cu(II), Pb(II) and humic acid on natural zeolite tuff in single and binary systems. Separation and Purification Technology, 2008, 62, 64-70.	7.9	141

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