

Shaobin Wang

List of Publications by Year in descending order

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602
papers

71,880
citations

209

147
h-index

1044

234
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613
all docs

613
docs citations

613
times ranked

43653
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural zeolites as effective adsorbents in water and wastewater treatment. <i>Chemical Engineering Journal</i> , 2010, 156, 11-24.	6.6	1,692
2	Metal-Free Carbocatalysis in Advanced Oxidation Reactions. <i>Accounts of Chemical Research</i> , 2018, 51, 678-687.	7.6	968
3	Catalytic Removal of Aqueous Contaminants on N-Doped Graphitic Biochars: Inherent Roles of Adsorption and Nonradical Mechanisms. <i>Environmental Science & Technology</i> , 2018, 52, 8649-8658.	4.6	820
4	Persulfate Activation on Crystallographic Manganese Oxides: Mechanism of Singlet Oxygen Evolution for Nonradical Selective Degradation of Aqueous Contaminants. <i>Environmental Science & Technology</i> , 2019, 53, 307-315.	4.6	817
5	N-Doping-Induced Nonradical Reaction on Single-Walled Carbon Nanotubes for Catalytic Phenol Oxidation. <i>ACS Catalysis</i> , 2015, 5, 553-559.	5.5	772
6	Removal of dyes from aqueous solution using fly ash and red mud. <i>Water Research</i> , 2005, 39, 129-138.	5.3	737
7	Nonradical reactions in environmental remediation processes: Uncertainty and challenges. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 973-982.	10.8	694
8	Carbon Dioxide Reforming of Methane To Produce Synthesis Gas over Metal-Supported Catalysts: State of the Art. <i>Energy & Fuels</i> , 1996, 10, 896-904.	2.5	688
9	Nitrogen-Doped Graphene for Generation and Evolution of Reactive Radicals by Metal-Free Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4169-4178.	4.0	677
10	Insights into Heterogeneous Catalysis of Persulfate Activation on Dimensional-Structured Nanocarbons. <i>ACS Catalysis</i> , 2015, 5, 4629-4636.	5.5	642
11	Reduced Graphene Oxide for Catalytic Oxidation of Aqueous Organic Pollutants. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 5466-5471.	4.0	636
12	Adsorptive remediation of environmental pollutants using novel graphene-based nanomaterials. <i>Chemical Engineering Journal</i> , 2013, 226, 336-347.	6.6	598
13	Ordered mesoporous materials for drug delivery. <i>Microporous and Mesoporous Materials</i> , 2009, 117, 1-9.	2.2	591
14	Occurrence of radical and nonradical pathways from carbocatalysts for aqueous and nonaqueous catalytic oxidation. <i>Applied Catalysis B: Environmental</i> , 2016, 188, 98-105.	10.8	570
15	Sulfur and Nitrogen Co-Doped Graphene for Metal-Free Catalytic Oxidation Reactions. <i>Small</i> , 2015, 11, 3036-3044.	5.2	567
16	Volatile organic compounds in indoor environment and photocatalytic oxidation: State of the art. <i>Environment International</i> , 2007, 33, 694-705.	4.8	558
17	Synthesis, characterization, and adsorption properties of magnetic Fe ₃ O ₄ @graphene nanocomposite. <i>Chemical Engineering Journal</i> , 2012, 184, 326-332.	6.6	549
18	The Intrinsic Nature of Persulfate Activation and N-Doping in Carbocatalysis. <i>Environmental Science & Technology</i> , 2020, 54, 6438-6447.	4.6	536

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19	Single-atom catalysis in advanced oxidation processes for environmental remediation. <i>Chemical Society Reviews</i> , 2021, 50, 5281-5322.	18.7	502
20	Recent advances in transition metal-based electrocatalysts for alkaline hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14971-15005.	5.2	501
21	A Comparative study of Fenton and Fenton-like reaction kinetics in decolourisation of wastewater. <i>Dyes and Pigments</i> , 2008, 76, 714-720.	2.0	496
22	Activation of Peroxydisulfate on Carbon Nanotubes: Electron-Transfer Mechanism. <i>Environmental Science & Technology</i> , 2019, 53, 14595-14603.	4.6	464
23	Insights into the Electron-Transfer Regime of Peroxydisulfate Activation on Carbon Nanotubes: The Role of Oxygen Functional Groups. <i>Environmental Science & Technology</i> , 2020, 54, 1267-1275.	4.6	452
24	A review on photocatalysis for air treatment: From catalyst development to reactor design. <i>Chemical Engineering Journal</i> , 2017, 310, 537-559.	6.6	449
25	Different Crystallographic One-dimensional MnO ₂ Nanomaterials and Their Superior Performance in Catalytic Phenol Degradation. <i>Environmental Science & Technology</i> , 2013, 47, 5882-5887.	4.6	446
26	Origins of Electron-Transfer Regime in Persulfate-Based Nonradical Oxidation Processes. <i>Environmental Science & Technology</i> , 2022, 56, 78-97.	4.6	445
27	Magnetic recoverable MnFe ₂ O ₄ and MnFe ₂ O ₄ -graphene hybrid as heterogeneous catalysts of peroxymonosulfate activation for efficient degradation of aqueous organic pollutants. <i>Journal of Hazardous Materials</i> , 2014, 270, 61-70.	6.5	439
28	Novel applications of red mud as coagulant, adsorbent and catalyst for environmentally benign processes. <i>Chemosphere</i> , 2008, 72, 1621-1635.	4.2	437
29	Catalytic oxidation of organic pollutants on pristine and surface nitrogen-modified carbon nanotubes with sulfate radicals. <i>Applied Catalysis B: Environmental</i> , 2014, 154-155, 134-141.	10.8	437
30	Manganese oxides at different oxidation states for heterogeneous activation of peroxymonosulfate for phenol degradation in aqueous solutions. <i>Applied Catalysis B: Environmental</i> , 2013, 142-143, 729-735.	10.8	435
31	Insights into perovskite-catalyzed peroxymonosulfate activation: Maneuverable cobalt sites for promoted evolution of sulfate radicals. <i>Applied Catalysis B: Environmental</i> , 2018, 220, 626-634.	10.8	428
32	Role of CeO ₂ in Ni/CeO ₂ –Al ₂ O ₃ catalysts for carbon dioxide reforming of methane. <i>Applied Catalysis B: Environmental</i> , 1998, 19, 267-277.	10.8	424
33	Environmental-benign utilisation of fly ash as low-cost adsorbents. <i>Journal of Hazardous Materials</i> , 2006, 136, 482-501.	6.5	406
34	Surface controlled generation of reactive radicals from persulfate by carbocatalysis on nanodiamonds. <i>Applied Catalysis B: Environmental</i> , 2016, 194, 7-15.	10.8	390
35	Mechanistic investigation of the enhanced NH ₃ -SCR on cobalt-decorated Ce-Ti mixed oxide: In situ FTIR analysis for structure-activity correlation. <i>Applied Catalysis B: Environmental</i> , 2017, 200, 297-308.	10.8	388
36	Phosphate removal from wastewater using red mud. <i>Journal of Hazardous Materials</i> , 2008, 158, 35-42.	6.5	380

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37	Activated carbon supported cobalt catalysts for advanced oxidation of organic contaminants in aqueous solution. <i>Applied Catalysis B: Environmental</i> , 2010, 100, 529-534.	10.8	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. <i>Environmental Science: Nano</i> , 2017, 4, 315-324.	2.2	372
39	Identification and Regulation of Active Sites on Nanodiamonds: Establishing a Highly Efficient Catalytic System for Oxidation of Organic Contaminants. <i>Advanced Functional Materials</i> , 2018, 28, 1705295.	7.8	370
40	Sulfate radicals induced from peroxymonosulfate by cobalt manganese oxides (Co _x Mn _{3-<i>x</i>} O ₄) for Fenton-Like reaction in water. <i>Journal of Hazardous Materials</i> , 2015, 296, 128-137.	6.5	363
41	Unveiling the active sites of graphene-catalyzed peroxymonosulfate activation. <i>Carbon</i> , 2016, 107, 371-378.	5.4	359
42	Application of zeolite MCM-22 for basic dye removal from wastewater. <i>Journal of Colloid and Interface Science</i> , 2006, 295, 71-78.	5.0	357
43	Recent advances in non-metal modification of graphitic carbon nitride for photocatalysis: a historic review. <i>Catalysis Science and Technology</i> , 2016, 6, 7002-7023.	2.1	350
44	N-doped graphitic biochars from C-phycoerythrin extracted <i>Spirulina</i> residue for catalytic persulfate activation toward nonradical disinfection and organic oxidation. <i>Water Research</i> , 2019, 159, 77-86.	5.3	347
45	3D-hierarchically structured MnO ₂ for catalytic oxidation of phenol solutions by activation of peroxymonosulfate: Structure dependence and mechanism. <i>Applied Catalysis B: Environmental</i> , 2015, 164, 159-167.	10.8	345
46	Fe, Co, Ni nanocrystals encapsulated in nitrogen-doped carbon nanotubes as Fenton-like catalysts for organic pollutant removal. <i>Journal of Hazardous Materials</i> , 2016, 314, 129-139.	6.5	344
47	Magnetic core-shell CuFe ₂ O ₄ @C ₃ N ₄ hybrids for visible light photocatalysis of Orange II. <i>Journal of Hazardous Materials</i> , 2015, 297, 224-233.	6.5	337
48	Wettability alteration of oil-wet carbonate by silica nanofluid. <i>Journal of Colloid and Interface Science</i> , 2016, 461, 435-442.	5.0	332
49	Characterisation and environmental application of an Australian natural zeolite for basic dye removal from aqueous solution. <i>Journal of Hazardous Materials</i> , 2006, 136, 946-952.	6.5	329
50	Hollow carbon nanobubbles: monocrystalline MOF nanobubbles and their pyrolysis. <i>Chemical Science</i> , 2017, 8, 3538-3546.	3.7	329
51	Dye Adsorption on Layered Graphite Oxide. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 138-141.	1.0	325
52	Facile synthesis of nitrogen-doped graphene via low-temperature pyrolysis: The effects of precursors and annealing ambience on metal-free catalytic oxidation. <i>Carbon</i> , 2017, 115, 649-658.	5.4	323
53	Porous Carbons: Structure-Oriented Design and Versatile Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1909265.	7.8	316
54	Facile assembly of Bi ₂ O ₃ /Bi ₂ S ₃ /MoS ₂ n-p heterojunction with layered n-Bi ₂ O ₃ and p-MoS ₂ for enhanced photocatalytic water oxidation and pollutant degradation. <i>Applied Catalysis B: Environmental</i> , 2017, 200, 47-55.	10.8	314

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55	Degradation of Cosmetic Microplastics via Functionalized Carbon Nanosprings. <i>Matter</i> , 2019, 1, 745-758.	5.0	306
56	The physical and surface chemical characteristics of activated carbons and the adsorption of methylene blue from wastewater. <i>Journal of Colloid and Interface Science</i> , 2005, 284, 440-446.	5.0	305
57	A novel lanthanum-modified bentonite, Phoslock, for phosphate removal from wastewaters. <i>Applied Clay Science</i> , 2009, 46, 369-375.	2.6	305
58	OD (MoS ₂)/2D (g-C ₃ N ₄) heterojunctions in Z-scheme for enhanced photocatalytic and electrochemical hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 228, 64-74.	10.8	298
59	Facile synthesis of nitrogen doped reduced graphene oxide as a superior metal-free catalyst for oxidation. <i>Chemical Communications</i> , 2013, 49, 9914.	2.2	294
60	MIL-101(Fe)/g-C ₃ N ₄ for enhanced visible-light-driven photocatalysis toward simultaneous reduction of Cr(VI) and oxidation of bisphenol A in aqueous media. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 119033.	10.8	293
61	CO ₂ reforming of methane on Ni catalysts: Effects of the support phase and preparation technique. <i>Applied Catalysis B: Environmental</i> , 1998, 16, 269-277.	10.8	290
62	Potential Difference Driving Electron Transfer via Defective Carbon Nanotubes toward Selective Oxidation of Organic Micropollutants. <i>Environmental Science & Technology</i> , 2020, 54, 8464-8472.	4.6	288
63	Nanocarbons in different structural dimensions (0-3D) for phenol adsorption and metal-free catalytic oxidation. <i>Applied Catalysis B: Environmental</i> , 2015, 179, 352-362.	10.8	277
64	Rational Catalyst Design for N ₂ Reduction under Ambient Conditions: Strategies toward Enhanced Conversion Efficiency. <i>ACS Catalysis</i> , 2020, 10, 6870-6899.	5.5	273
65	Z-scheme plasmonic Ag decorated WO ₃ /Bi ₂ WO ₆ hybrids for enhanced photocatalytic abatement of chlorinated-VOCs under solar light irradiation. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 76-84.	10.8	270
66	Oxidative degradation of dyes in water using Co ²⁺ /H ₂ O ₂ and Co ²⁺ /peroxymonosulfate. <i>Journal of Hazardous Materials</i> , 2010, 178, 385-389.	6.5	265
67	Activation of peroxymonosulfate by carbonaceous oxygen groups: experimental and density functional theory calculations. <i>Applied Catalysis B: Environmental</i> , 2016, 198, 295-302.	10.8	261
68	Mixed Conducting Perovskite Materials as Superior Catalysts for Fast Aqueous-Phase Advanced Oxidation: A Mechanistic Study. <i>ACS Catalysis</i> , 2017, 7, 388-397.	5.5	260
69	Insights into N-doping in single-walled carbon nanotubes for enhanced activation of superoxides: a mechanistic study. <i>Chemical Communications</i> , 2015, 51, 15249-15252.	2.2	259
70	Iron encapsulated in boron and nitrogen codoped carbon nanotubes as synergistic catalysts for Fenton-like reaction. <i>Water Research</i> , 2016, 101, 281-291.	5.3	257
71	A comparative study of dye removal using fly ash treated by different methods. <i>Chemosphere</i> , 2005, 60, 1401-1407.	4.2	250
72	A new magnetic nano zero-valent iron encapsulated in carbon spheres for oxidative degradation of phenol. <i>Applied Catalysis B: Environmental</i> , 2015, 172-173, 73-81.	10.8	244

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73	Excellent performance of mesoporous Co ₃ O ₄ /MnO ₂ nanoparticles in heterogeneous activation of peroxymonosulfate for phenol degradation in aqueous solutions. <i>Applied Catalysis B: Environmental</i> , 2012, 127, 330-335.	10.8	243
74	N-Doped Graphene from Metal-Organic Frameworks for Catalytic Oxidation of p-Hydroxybenzoic Acid: N-Functionality and Mechanism. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2693-2701.	3.2	243
75	Efficient Catalytic Ozonation over Reduced Graphene Oxide for p-Hydroxybenzoic Acid (PHBA) Destruction: Active Site and Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9710-9720.	4.0	234
76	Hydrothermal Synthesis of Co ₃ O ₄ -Graphene for Heterogeneous Activation of Peroxymonosulfate for Decomposition of Phenol. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 14958-14965.	1.8	231
77	New insights into heterogeneous generation and evolution processes of sulfate radicals for phenol degradation over one-dimensional MnO ₂ nanostructures. <i>Chemical Engineering Journal</i> , 2015, 266, 12-20.	6.6	229
78	Geopolymeric adsorbents from fly ash for dye removal from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2006, 300, 52-59.	5.0	228
79	Nanosize Zr-metal organic framework (UiO-66) for hydrogen and carbon dioxide storage. <i>Chemical Engineering Journal</i> , 2012, 187, 415-420.	6.6	227
80	Application of Solid Ash Based Catalysts in Heterogeneous Catalysis. <i>Environmental Science & Technology</i> , 2008, 42, 7055-7063.	4.6	226
81	Nitrogen- and Sulfur-Codoped Hierarchically Porous Carbon for Adsorptive and Oxidative Removal of Pharmaceutical Contaminants. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7184-7193.	4.0	224
82	Heterogeneous activation of peroxymonosulfate by amorphous boron for degradation of bisphenol S. <i>Journal of Hazardous Materials</i> , 2017, 322, 532-539.	6.5	218
83	Co ₃ O ₄ quantum dots/TiO ₂ nanobelt hybrids for highly efficient photocatalytic overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2018, 236, 396-403.	10.8	218
84	Magnetic ZnFe ₂ O ₄ -C ₃ N ₄ Hybrid for Photocatalytic Degradation of Aqueous Organic Pollutants by Visible Light. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 17294-17302.	1.8	215
85	Nanodiamonds in sp ² /sp ³ configuration for radical to nonradical oxidation: Core-shell layer dependence. <i>Applied Catalysis B: Environmental</i> , 2018, 222, 176-181.	10.8	214
86	Boosting Fenton-Like Reactions via Single Atom Fe Catalysis. <i>Environmental Science & Technology</i> , 2019, 53, 11391-11400.	4.6	210
87	Cobalt exchanged zeolites for heterogeneous catalytic oxidation of phenol in the presence of peroxymonosulphate. <i>Applied Catalysis B: Environmental</i> , 2010, 99, 163-169.	10.8	209
88	Excellent performance of copper based metal organic framework in adsorptive removal of toxic sulfonamide antibiotics from wastewater. <i>Journal of Colloid and Interface Science</i> , 2016, 478, 344-352.	5.0	208
89	Competitive adsorption of malachite green and Pb ions on natural zeolite. <i>Journal of Colloid and Interface Science</i> , 2007, 314, 25-31.	5.0	206
90	Fast and Long-Lasting Iron(III) Reduction by Boron Toward Green and Accelerated Fenton Chemistry. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16517-16526.	7.2	206

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91	A Comprehensive Study on Carbon Dioxide Reforming of Methane over Ni/Al ₂ O ₃ Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 1999, 38, 2615-2625.	1.8	202
92	Catalytic Conversion of Alkanes to Olefins by Carbon Dioxide Oxidative Dehydrogenation A Review. <i>Energy & Fuels</i> , 2004, 18, 1126-1139.	2.5	202
93	Nitrogen-doped bamboo-like carbon nanotubes with Ni encapsulation for persulfate activation to remove emerging contaminants with excellent catalytic stability. <i>Chemical Engineering Journal</i> , 2018, 332, 398-408.	6.6	199
94	Adsorptive removal of antibiotic sulfonamide by UiO-66 and ZIF-67 for wastewater treatment. <i>Journal of Colloid and Interface Science</i> , 2017, 500, 88-95.	5.0	198
95	AMP-activated protein kinase, stress responses and cardiovascular diseases. <i>Clinical Science</i> , 2012, 122, 555-573.	1.8	197
96	Synergistic and competitive adsorption of organic dyes on multiwalled carbon nanotubes. <i>Chemical Engineering Journal</i> , 2012, 197, 34-40.	6.6	196
97	Shape-controlled activation of peroxymonosulfate by single crystal Mn ₂ O ₃ for catalytic phenol degradation in aqueous solution. <i>Applied Catalysis B: Environmental</i> , 2014, 154-155, 246-251.	10.8	196
98	2D/2D nano-hybrids of MnO ₂ on reduced graphene oxide for catalytic ozonation and coupling peroxymonosulfate activation. <i>Journal of Hazardous Materials</i> , 2016, 301, 56-64.	6.5	195
99	Fabrication of Fe ₃ O ₄ /SiO ₂ core/shell nanoparticles attached to graphene oxide and its use as an adsorbent. <i>Journal of Colloid and Interface Science</i> , 2012, 379, 20-26.	5.0	194
100	Low temperature combustion synthesis of nitrogen-doped graphene for metal-free catalytic oxidation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3432-3440.	5.2	194
101	Bread-making synthesis of hierarchically Co@C nanoarchitecture in heteroatom doped porous carbons for oxidative degradation of emerging contaminants. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 76-83.	10.8	194
102	Roles of structure defect, oxygen groups and heteroatom doping on carbon in nonradical oxidation of water contaminants. <i>Water Research</i> , 2020, 185, 116244.	5.3	194
103	Iridium-based nanomaterials for electrochemical water splitting. <i>Nano Energy</i> , 2020, 78, 105270.	8.2	192
104	Coal ash conversion into effective adsorbents for removal of heavy metals and dyes from wastewater. <i>Journal of Hazardous Materials</i> , 2006, 133, 243-251.	6.5	191
105	Removal of emulsified oil from oily wastewater using agricultural waste barley straw. <i>Biochemical Engineering Journal</i> , 2010, 49, 78-83.	1.8	190
106	Density Functional Theory Calculations for Insight into the Heterocatalyst Reactivity and Mechanism in Persulfate-Based Advanced Oxidation Reactions. <i>ACS Catalysis</i> , 2021, 11, 11129-11159.	5.5	190
107	Nano-Fe ⁰ Encapsulated in Microcarbon Spheres: Synthesis, Characterization, and Environmental Applications. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6235-6241.	4.0	189
108	Correlation of Active Sites to Generated Reactive Species and Degradation Routes of Organics in Peroxymonosulfate Activation by Co-Loaded Carbon. <i>Environmental Science & Technology</i> , 2021, 55, 16163-16174.	4.6	189

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109	Dehydrogenation of ethane with carbon dioxide over supported chromium oxide catalysts. <i>Applied Catalysis A: General</i> , 2000, 196, 1-8.	2.2	188
110	Reforming of methane with carbon dioxide over Ni/Al ₂ O ₃ catalysts: Effect of nickel precursor. <i>Applied Catalysis A: General</i> , 1998, 169, 271-280.	2.2	187
111	Solid-state conversion of fly ash to effective adsorbents for Cu removal from wastewater. <i>Journal of Hazardous Materials</i> , 2007, 139, 254-259.	6.5	187
112	Synthesis of porous reduced graphene oxide as metal-free carbon for adsorption and catalytic oxidation of organics in water. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5854.	5.2	187
113	Role of oxygen vacancies and Mn sites in hierarchical Mn ₂ O ₃ /LaMnO ₃ perovskite composites for aqueous organic pollutants decontamination. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 546-554.	10.8	187
114	CuInS ₂ quantum dots embedded in Bi ₂ WO ₆ nanoflowers for enhanced visible light photocatalytic removal of contaminants. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 215-222.	10.8	186
115	Effects of nitrogen-, boron-, and phosphorus-doping or codoping on metal-free graphene catalysis. <i>Catalysis Today</i> , 2015, 249, 184-191.	2.2	185
116	Layer structured graphite oxide as a novel adsorbent for humic acid removal from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2009, 333, 114-119.	5.0	184
117	A comparative study of spinel structured Mn ₃ O ₄ , Co ₃ O ₄ and Fe ₃ O ₄ nanoparticles in catalytic oxidation of phenolic contaminants in aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2013, 407, 467-473.	5.0	182
118	Heteroatom (N or Nâ€S)â€Doping Induced Layered and Honeycomb Microstructures of Porous Carbons for CO ₂ Capture and Energy Applications. <i>Advanced Functional Materials</i> , 2016, 26, 8651-8661.	7.8	182
119	Graphene facilitated visible light photodegradation of methylene blue over titanium dioxide photocatalysts. <i>Chemical Engineering Journal</i> , 2013, 214, 298-303.	6.6	181
120	Synthesis of Fe ₂ O ₃ loaded porous g-C ₃ N ₄ photocatalyst for photocatalytic reduction of dinitrogen to ammonia. <i>Chemical Engineering Journal</i> , 2019, 373, 572-579.	6.6	181
121	Photocatalytic conversion of lignocellulosic biomass to valuable products. <i>Green Chemistry</i> , 2019, 21, 4266-4289.	4.6	180
122	Production, properties, and catalytic applications of sludge derived biochar for environmental remediation. <i>Water Research</i> , 2020, 187, 116390.	5.3	180
123	Persulfate Oxidation of Sulfamethoxazole by Magnetic Iron-Char Composites via Nonradical Pathways: Fe(IV) Versus Surface-Mediated Electron Transfer. <i>Environmental Science & Technology</i> , 2021, 55, 10077-10086.	4.6	180
124	A comparative study of reduced graphene oxide modified TiO ₂ , ZnO and Ta ₂ O ₅ in visible light photocatalytic/photochemical oxidation of methylene blue. <i>Applied Catalysis B: Environmental</i> , 2014, 146, 162-168.	10.8	178
125	Understanding of the Oxidation Behavior of Benzyl Alcohol by Peroxymonosulfate via Carbon Nanotubes Activation. <i>ACS Catalysis</i> , 2020, 10, 3516-3525.	5.5	178
126	Black NiO-TiO ₂ nanorods for solar photocatalysis: Recognition of electronic structure and reaction mechanism. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 705-714.	10.8	177

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127	ZnO/montmorillonite for photocatalytic and photochemical degradation of methylene blue. <i>Applied Clay Science</i> , 2011, 53, 553-560.	2.6	176
128	Upconversion carbon quantum dots as visible light responsive component for efficient enhancement of photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2017, 496, 425-433.	5.0	176
129	One-pot approach for synthesis of N-doped TiO ₂ /ZnFe ₂ O ₄ hybrid as an efficient photocatalyst for degradation of aqueous organic pollutants. <i>Journal of Hazardous Materials</i> , 2015, 291, 28-37.	6.5	173
130	Recent progress in g-C ₃ N ₄ quantum dots: synthesis, properties and applications in photocatalytic degradation of organic pollutants. <i>Journal of Materials Chemistry A</i> , 2020, 8, 485-502.	5.2	173
131	Facile Synthesis of Mn ₃ O ₄ –Reduced Graphene Oxide Hybrids for Catalytic Decomposition of Aqueous Organics. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 3637-3645.	1.8	171
132	Phosphorous doped carbon nitride nanobelts for photodegradation of emerging contaminants and hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 257, 117931.	10.8	170
133	Sensitive and selective determination of aqueous triclosan based on gold nanoparticles on polyoxometalate/reduced graphene oxide nanohybrid. <i>RSC Advances</i> , 2015, 5, 65953-65962.	1.7	169
134	Carbocatalytic activation of persulfate for removal of antibiotics in water solutions. <i>Chemical Engineering Journal</i> , 2016, 288, 399-405.	6.6	168
135	A New Metal-Free Carbon Hybrid for Enhanced Photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 16745-16754.	4.0	167
136	Facile Synthesis of Hierarchically Structured Magnetic MnO ₂ /ZnFe ₂ O ₄ Hybrid Materials and Their Performance in Heterogeneous Activation of Peroxymonosulfate. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19914-19923.	4.0	166
137	Manganese oxide integrated catalytic ceramic membrane for degradation of organic pollutants using sulfate radicals. <i>Water Research</i> , 2019, 167, 115110.	5.3	165
138	Surface-tailored nanodiamonds as excellent metal-free catalysts for organic oxidation. <i>Carbon</i> , 2016, 103, 404-411.	5.4	164
139	Magnetic Ni-Co alloy encapsulated N-doped carbon nanotubes for catalytic membrane degradation of emerging contaminants. <i>Chemical Engineering Journal</i> , 2019, 362, 251-261.	6.6	164
140	Magnetic nitrogen-doped nanocarbons for enhanced metal-free catalytic oxidation: Integrated experimental and theoretical investigations for mechanism and application. <i>Chemical Engineering Journal</i> , 2018, 354, 507-516.	6.6	162
141	Disordered Atomic Packing Structure of Metallic Glass: Toward Ultrafast Hydroxyl Radicals Production Rate and Strong Electron Transfer Ability in Catalytic Performance. <i>Advanced Functional Materials</i> , 2017, 27, 1702258.	7.8	160
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