

Xiaoguang Duan

List of Publications by Year in descending order

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243
papers

30,708
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3515

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all docs

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docs citations

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times ranked

12657
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-Free Carbocatalysis in Advanced Oxidation Reactions. <i>Accounts of Chemical Research</i> , 2018, 51, 678-687.	7.6	968
2	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
3	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
4	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
5	Nonradical reactions in environmental remediation processes: Uncertainty and challenges. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 973-982.	10.8	694
6	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
7	Insights into Heterogeneous Catalysis of Persulfate Activation on Dimensional-Structured Nanocarbons. <i>ACS Catalysis</i> , 2015, 5, 4629-4636.	5.5	642
8	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
9	Sulfur and Nitrogen Co-Doped Graphene for Metal-Free Catalytic Oxidation Reactions. <i>Small</i> , 2015, 11, 3036-3044.	5.2	567
10	The Intrinsic Nature of Persulfate Activation and N-Doping in Carbocatalysis. <i>Environmental Science & Technology</i> , 2020, 54, 6438-6447.	4.6	536
11	Single-atom catalysis in advanced oxidation processes for environmental remediation. <i>Chemical Society Reviews</i> , 2021, 50, 5281-5322.	18.7	502
12	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
13	Activation of Peroxydisulfate on Carbon Nanotubes: Electron-Transfer Mechanism. <i>Environmental Science & Technology</i> , 2019, 53, 14595-14603.	4.6	464
14	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
15	Origins of Electron-Transfer Regime in Persulfate-Based Nonradical Oxidation Processes. <i>Environmental Science & Technology</i> , 2022, 56, 78-97.	4.6	445
16	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
17	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
18	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

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19	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
20	Unveiling the active sites of graphene-catalyzed peroxymonosulfate activation. <i>Carbon</i> , 2016, 107, 371-378.	5.4	359
21	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
22	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
23	Porous Carbons: Structure-Oriented Design and Versatile Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1909265.	7.8	316
24	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
25	Degradation of Cosmetic Microplastics via Functionalized Carbon Nanosprings. <i>Matter</i> , 2019, 1, 745-758.	5.0	306
26	0D (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
27	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
28	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
29	Engineered carbon supported single iron atom sites and iron clusters from Fe-rich Enteromorpha for Fenton-like reactions via nonradical pathways. <i>Applied Catalysis B: Environmental</i> , 2021, 287, 119963.	10.8	271
30	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
31	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
32	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
33	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
34	Remediation of antibiotic wastewater by coupled photocatalytic and persulfate oxidation system: A critical review. <i>Journal of Hazardous Materials</i> , 2021, 408, 124461.	6.5	246
35	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
36	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

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37	New insights into heterogeneous generation and evolution processes of sulfate radicals for phenol degradation over one-dimensional $\text{I}^{\pm}\text{-MnO}_2$ nanostructures. <i>Chemical Engineering Journal</i> , 2015, 266, 12-20.	6.6	229
38	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
39	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
40	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
41	Sub-5 nm Ultra-Fine FeP Nanodots as Efficient Co-Catalysts Modified Porous $\text{g-C}_3\text{N}_4$ for Precious-Metal-Free Photocatalytic Hydrogen Evolution under Visible Light. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5651-5660.	4.0	208
42	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
43	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
44	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
45	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
46	Iridium-based nanomaterials for electrochemical water splitting. <i>Nano Energy</i> , 2020, 78, 105270.	8.2	192
47	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
48	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
49	Role of oxygen vacancies and Mn sites in hierarchical $\text{Mn}_2\text{O}_3/\text{LaMnO}_3$ perovskite composites for aqueous organic pollutants decontamination. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 546-554.	10.8	187
50	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
51	Photocatalytic conversion of lignocellulosic biomass to valuable products. <i>Green Chemistry</i> , 2019, 21, 4266-4289.	4.6	180
52	Production, properties, and catalytic applications of sludge derived biochar for environmental remediation. <i>Water Research</i> , 2020, 187, 116390.	5.3	180
53	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
54	Carbocatalytic activation of persulfate for removal of antibiotics in water solutions. <i>Chemical Engineering Journal</i> , 2016, 288, 399-405.	6.6	168

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55	Manganese oxide integrated catalytic ceramic membrane for degradation of organic pollutants using sulfate radicals. <i>Water Research</i> , 2019, 167, 115110.	5.3	165
56	Surface-tailored nanodiamonds as excellent metal-free catalysts for organic oxidation. <i>Carbon</i> , 2016, 103, 404-411.	5.4	164
57	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
58	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.	10.8	163
59	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
60	Advanced oxidation processes for water disinfection: Features, mechanisms and prospects. <i>Chemical Engineering Journal</i> , 2021, 409, 128207.	6.6	162
61	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
62	Unveiling the Origins of Selective Oxidation in Single-Atom Catalysis via Co ⁴⁺ -Intensified Radical and Nonradical Pathways. <i>Environmental Science & Technology</i> , 2022, 56, 11635-11645.	4.6	159
63	CeO ₂ nanocrystal-modified layered MoS ₂ /g-C ₃ N ₄ as 0D/2D ternary composite for visible-light photocatalytic hydrogen evolution: Interfacial consecutive multi-step electron transfer and enhanced H ₂ O reactant adsorption. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118072.	10.8	158
64	Revisiting the Graphitized Nanodiamond-Mediated Activation of Peroxymonosulfate: Singlet Oxygenation versus Electron Transfer. <i>Environmental Science & Technology</i> , 2021, 55, 16078-16087.	4.6	155
65	Insight into the effect of lignocellulosic biomass source on the performance of biochar as persulfate activator for aqueous organic pollutants remediation: Epicarp and mesocarp of citrus peels as examples. <i>Journal of Hazardous Materials</i> , 2020, 399, 123043.	6.5	152
66	Catalytic membrane-based oxidation-filtration systems for organic wastewater purification: A review. <i>Journal of Hazardous Materials</i> , 2021, 414, 125478.	6.5	143
67	Nanocarbon-Based Catalytic Ozonation for Aqueous Oxidation: Engineering Defects for Active Sites and Tunable Reaction Pathways. <i>ACS Catalysis</i> , 2020, 10, 13383-13414.	5.5	141
68	Molecular Engineering toward Pyrrolic N-Rich M ₄ (M = Cr, Mn, Fe, Co, Cu) Single-Atom Sites for Enhanced Heterogeneous Fenton-Like Reaction. <i>Advanced Functional Materials</i> , 2021, 31, 2007877.	7.8	139
69	Oxygen Vacancies in Shape Controlled Cu ₂ O/Reduced Graphene Oxide/In ₂ O ₃ Hybrid for Promoted Photocatalytic Water Oxidation and Degradation of Environmental Pollutants. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11678-11688.	4.0	137
70	Peroxydisulfate activation by positively polarized carbocatalyst for enhanced removal of aqueous organic pollutants. <i>Water Research</i> , 2019, 166, 115043.	5.3	137
71	Cobalt silicate hydroxide nanosheets in hierarchical hollow architecture with maximized cobalt active site for catalytic oxidation. <i>Chemical Engineering Journal</i> , 2019, 359, 79-87.	6.6	136
72	Boride-based electrocatalysts: Emerging candidates for water splitting. <i>Nano Research</i> , 2020, 13, 293-314.	5.8	133

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73	Boosting performance of lanthanide magnetism perovskite for advanced oxidation through lattice doping with catalytically inert element. <i>Chemical Engineering Journal</i> , 2019, 355, 721-730.	6.6	132
74	Rational Regulation of Co ^{II} -C Coordination for High-Efficiency Generation of ¹ O ₂ toward Nearly 100% Selective Degradation of Organic Pollutants. <i>Environmental Science & Technology</i> , 2022, 56, 8833-8843.	4.6	130
75	Tailored synthesis of active reduced graphene oxides from waste graphite: Structural defects and pollutant-dependent reactive radicals in aqueous organics decontamination. <i>Applied Catalysis B: Environmental</i> , 2018, 229, 71-80.	10.8	128
76	Carbon-based single atom catalyst: Synthesis, characterization, DFT calculations. <i>Chinese Chemical Letters</i> , 2022, 33, 663-673.	4.8	126
77	A novel electrocatalytic filtration system with carbon nanotube supported nanoscale zerovalent copper toward ultrafast oxidation of organic pollutants. <i>Water Research</i> , 2021, 194, 116961.	5.3	123
78	Metal-free activation of persulfate by cubic mesoporous carbons for catalytic oxidation via radical and nonradical processes. <i>Catalysis Today</i> , 2018, 307, 140-146.	2.2	121
79	Facile synthesis of N-doped 3D graphene aerogel and its excellent performance in catalytic degradation of antibiotic contaminants in water. <i>Carbon</i> , 2019, 144, 781-790.	5.4	121
80	Interfacial-engineered cobalt@carbon hybrids for synergistically boosted evolution of sulfate radicals toward green oxidation. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117795.	10.8	117
81	Sustainable redox processes induced by peroxymonosulfate and metal doping on amorphous manganese dioxide for nonradical degradation of water contaminants. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119903.	10.8	115
82	Occurrence of both hydroxyl radical and surface oxidation pathways in N-doped layered nanocarbons for aqueous catalytic ozonation. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 283-291.	10.8	109
83	Unzipping carbon nanotubes to nanoribbons for revealing the mechanism of nonradical oxidation by carbocatalysis. <i>Applied Catalysis B: Environmental</i> , 2020, 276, 119146.	10.8	108
84	Graphitic biochar catalysts from anaerobic digestion sludge for nonradical degradation of micropollutants and disinfection. <i>Chemical Engineering Journal</i> , 2020, 384, 123244.	6.6	105
85	UV-assisted construction of 3D hierarchical rGO/Bi ₂ MoO ₆ composites for enhanced photocatalytic water oxidation. <i>Chemical Engineering Journal</i> , 2017, 313, 1447-1453.	6.6	102
86	Structure-dependent catalysis of cuprous oxides in peroxymonosulfate activation via nonradical pathway with a high oxidation capacity. <i>Journal of Hazardous Materials</i> , 2020, 385, 121518.	6.5	101
87	Graphitic Carbon Nitride-Based Z-Scheme Structure for Photocatalytic CO ₂ Reduction. <i>Energy & Fuels</i> , 2021, 35, 7-24.	2.5	100
88	Nonradical oxidation in persulfate activation by graphene-like nanosheets (GNS): Differentiating the contributions of singlet oxygen (¹ O ₂) and sorption-dependent electron transfer. <i>Chemical Engineering Journal</i> , 2020, 393, 124725.	6.6	94
89	Role of electronic properties in partition of radical and nonradical processes of carbocatalysis toward peroxymonosulfate activation. <i>Carbon</i> , 2019, 153, 73-80.	5.4	93
90	Self-assembly of 3D MnO ₂ /N-doped graphene hybrid aerogel for catalytic degradation of water pollutants: Structure-dependent activity. <i>Chemical Engineering Journal</i> , 2019, 369, 1049-1058.	6.6	93

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91	Functional Carbon Nitride Materials in Photo-Fenton-Like Catalysis for Environmental Remediation. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	93
92	Nanostructured Co-Mn containing perovskites for degradation of pollutants: Insight into the activity and stability. <i>Journal of Hazardous Materials</i> , 2018, 349, 177-185.	6.5	92
93	Hydroxyl radical dominated elimination of plasticizers by peroxymonosulfate on metal-free boron: Kinetics and mechanisms. <i>Water Research</i> , 2020, 186, 116361.	5.3	92
94	Facet- and defect-dependent activity of perovskites in catalytic evolution of sulfate radicals. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118972.	10.8	91
95	Synergistic Adsorption and Oxidation of Ciprofloxacin by Biochar Derived from Metal-Enriched Phytoremediation Plants: Experimental and Computational Insights. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53788-53798.	4.0	89
96	Efficient photocatalytic overall water splitting on metal-free 1D SWCNT/2D ultrathin C ₃ N ₄ heterojunctions via novel non-resonant plasmonic effect. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119312.	10.8	89
97	Photocatalytic activation of peroxymonosulfate by surface-tailored carbon quantum dots. <i>Journal of Hazardous Materials</i> , 2020, 395, 122695.	6.5	88
98	Metal-free catalytic ozonation on surface-engineered graphene: Microwave reduction and heteroatom doping. <i>Chemical Engineering Journal</i> , 2019, 355, 118-129.	6.6	86
99	sp ² /sp ³ Framework from Diamond Nanocrystals: A Key Bridge of Carbonaceous Structure to Carbocatalysis. <i>ACS Catalysis</i> , 2019, 9, 7494-7519.	5.5	86
100	Electrocatalysts for acidic oxygen evolution reaction: Achievements and perspectives. <i>Nano Energy</i> , 2020, 78, 105392.	8.2	86
101	Ultra-sustainable Fe ₇₈ Si ₉ B ₁₃ metallic glass as a catalyst for activation of persulfate on methylene blue degradation under UV-Vis light. <i>Scientific Reports</i> , 2016, 6, 38520.	1.6	84
102	Microplastics remediation in aqueous systems: Strategies and technologies. <i>Water Research</i> , 2021, 198, 117144.	5.3	84
103	Fine-Tuning Radical/Nonradical Pathways on Graphene by Porous Engineering and Doping Strategies. <i>ACS Catalysis</i> , 2021, 11, 4848-4861.	5.5	82
104	Interfacial CoAl ₂ O ₄ from ZIF-67@ γ -Al ₂ O ₃ pellets toward catalytic activation of peroxymonosulfate for metronidazole removal. <i>Chemical Engineering Journal</i> , 2020, 397, 125339.	6.6	82
105	Adsorption of cerium (III) by HKUST-1 metal-organic framework from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 421-428.	5.0	81
106	Photochemical degradation of phenol solutions on Co ₃ O ₄ nanorods with sulfate radicals. <i>Catalysis Today</i> , 2015, 258, 576-584.	2.2	80
107	Fine-Tuning Surface Properties of Perovskites via Nanocompositing with Inert Oxide toward Developing Superior Catalysts for Advanced Oxidation. <i>Advanced Functional Materials</i> , 2018, 28, 1804654.	7.8	80
108	New insight to the role of edges and heteroatoms in nanocarbons for oxygen reduction reaction. <i>Nano Energy</i> , 2019, 66, 104096.	8.2	79

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109	V2O5 nanodot-decorated laminar C3N4 for sustainable photodegradation of amoxicillin under solar light. <i>Applied Catalysis B: Environmental</i> , 2022, 303, 120903.	10.8	79
110	Catalysis of a Single Transition Metal Site for Water Oxidation: From Mononuclear Molecules to Single Atoms. <i>Advanced Materials</i> , 2020, 32, e1904037.	11.1	78
111	Coupling hydrothermal and photothermal single-atom catalysis toward excellent water splitting to hydrogen. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119660.	10.8	77
112	Cobalt porphyrins supported on carbon nanotubes as model catalysts of metal-N4/C sites for oxygen electrocatalysis. <i>Journal of Energy Chemistry</i> , 2021, 53, 77-81.	7.1	77
113	Magnetic biochar catalysts from anaerobic digested sludge: Production, application and environment impact. <i>Environment International</i> , 2019, 126, 302-308.	4.8	76
114	Novel polyoxometalate@g-C3N4 hybrid photocatalysts for degradation of dyes and phenolics. <i>Journal of Colloid and Interface Science</i> , 2015, 456, 15-21.	5.0	75
115	Degradation of Microplastics by a Thermal Fenton Reaction. <i>ACS ES&T Engineering</i> , 2022, 2, 110-120.	3.7	75
116	Kinetics and mechanism of synergistic adsorption and persulfate activation by N-doped porous carbon for antibiotics removals in single and binary solutions. <i>Journal of Hazardous Materials</i> , 2022, 423, 127083.	6.5	74
117	The mechanistic difference of 1T-2H MoS2 homojunctions in persulfates activation: Structure-dependent oxidation pathways. <i>Applied Catalysis B: Environmental</i> , 2021, 297, 120460.	10.8	73
118	Accelerating radical generation from peroxymonosulfate by confined variable Co species toward ciprofloxacin mineralization: ROS quantification and mechanisms elucidation. <i>Applied Catalysis B: Environmental</i> , 2022, 315, 121542.	10.8	72
119	Preparation of a p-n heterojunction BiFeO3@TiO2 photocatalyst with a core-shell structure for visible-light photocatalytic degradation. <i>Chinese Journal of Catalysis</i> , 2017, 38, 1052-1062.	6.9	70
120	Insights into the oxidation of organic contaminants by iron nanoparticles encapsulated within boron and nitrogen co-doped carbon nanoshell: Catalyzed Fenton-like reaction at natural pH. <i>Environment International</i> , 2019, 128, 77-88.	4.8	70
121	Metal-free graphene-carbon nitride hybrids for photodegradation of organic pollutants in water. <i>Catalysis Today</i> , 2015, 258, 668-675.	2.2	69
122	Postsynthesis Growth of CoOOH Nanostructure on SrCo _{0.6} Ti _{0.4} O ₃ Perovskite Surface for Enhanced Degradation of Aqueous Organic Contaminants. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15737-15748.	3.2	69
123	Landfill leachate treatment by persulphate related advanced oxidation technologies. <i>Journal of Hazardous Materials</i> , 2021, 418, 126355.	6.5	69
124	Degradation of aniline by electrochemical activation of peroxydisulfate at MWCNT cathode: The proofed concept of nonradical oxidation process. <i>Chemosphere</i> , 2018, 206, 432-438.	4.2	68
125	Selective formation of reactive oxygen species in peroxymonosulfate activation by metal-organic framework-derived membranes: A defect engineering-dependent study. <i>Applied Catalysis B: Environmental</i> , 2022, 312, 121419.	10.8	68
126	Efficient removal of organic and bacterial pollutants by Ag-La _{0.8} Ca _{0.2} Fe _{0.94} O ₃ perovskite via catalytic peroxymonosulfate activation. <i>Journal of Hazardous Materials</i> , 2018, 356, 53-60.	6.5	67

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127	Origins of boron catalysis in peroxymonosulfate activation and advanced oxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23904-23913.	5.2	67
128	Biomass-derived functional porous carbons for adsorption and catalytic degradation of binary micropollutants in water. <i>Journal of Hazardous Materials</i> , 2020, 389, 121881.	6.5	67
129	Fe containing template derived atomic Fe ⁴⁺ /N ⁴⁺ sites to boost Fenton-like reaction and charge migration analysis on highly active Fe ⁴⁺ /N ⁴⁺ sites. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14793-14805.	5.2	66
130	Synergy of nitrogen doping and structural defects on hierarchically porous carbons toward catalytic oxidation via a non-radical pathway. <i>Carbon</i> , 2019, 155, 268-278.	5.4	65
131	Edge-Rich Bicrystalline 1T/2H-MoS ₂ Cocatalyst-Decorated {110} Terminated CeO ₂ Nanorods for Photocatalytic Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35818-35827.	4.0	65
132	Quasi-MOF derivative-based electrode for efficient electro-Fenton oxidation. <i>Journal of Hazardous Materials</i> , 2021, 401, 123423.	6.5	63
133	Nitrogen-doped carbon nanotubes enhanced Fenton chemistry: Role of near-free iron(III) for sustainable iron(III)/iron(II) cycles. <i>Water Research</i> , 2022, 210, 117984.	5.3	63
134	Size-Tailored Porous Spheres of Manganese Oxides for Catalytic Oxidation via Peroxymonosulfate Activation. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16871-16878.	1.5	62
135	Peroxymonosulfate activation by Fe ₃ O ₄ -MnO ₂ /CNT nanohybrid electroactive filter towards ultrafast micropollutants decontamination: Performance and mechanism. <i>Journal of Hazardous Materials</i> , 2022, 423, 127111.	6.5	62
136	Chemical activation of nitrogen and sulfur co-doped graphene as defect-rich carbocatalyst for electrochemical water splitting. <i>Carbon</i> , 2019, 148, 540-549.	5.4	61
137	Nanostructured manganese oxides: natural/artificial formation and their induced catalysis for wastewater remediation. <i>Environmental Science: Nano</i> , 2020, 7, 368-396.	2.2	61
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