

Shaobin Wang

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595
papers

49,847
citations

127
h-index

194
g-index

613
ext. papers

60,686
ext. citations

9.7
avg, IF

8.43
L-index

#	Paper	IF	Citations
595	Natural zeolites as effective adsorbents in water and wastewater treatment. <i>Chemical Engineering Journal</i> , 2010 , 156, 11-24	14.7	1294
594	Removal of dyes from aqueous solution using fly ash and red mud. <i>Water Research</i> , 2005 , 39, 129-38	12.5	665
593	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	4.1	577
592	Metal-Free Carbocatalysis in Advanced Oxidation Reactions. <i>Accounts of Chemical Research</i> , 2018 , 51, 678-687	24.3	573
591	Ordered mesoporous materials for drug delivery. <i>Microporous and Mesoporous Materials</i> , 2009 , 117, 1-9	5.3	532
590	N-Doping-Induced Nonradical Reaction on Single-Walled Carbon Nanotubes for Catalytic Phenol Oxidation. <i>ACS Catalysis</i> , 2015 , 5, 553-559	13.1	525
589	Reduced graphene oxide for catalytic oxidation of aqueous organic pollutants. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 5466-71	9.5	517
588	Adsorptive remediation of environmental pollutants using novel graphene-based nanomaterials. <i>Chemical Engineering Journal</i> , 2013 , 226, 336-347	14.7	508
587	Volatile organic compounds in indoor environment and photocatalytic oxidation: state of the art. <i>Environment International</i> , 2007 , 33, 694-705	12.9	489
586	Synthesis, characterization, and adsorption properties of magnetic Fe ₃ O ₄ @graphene nanocomposite. <i>Chemical Engineering Journal</i> , 2012 , 184, 326-332	14.7	477
585	Nitrogen-doped graphene for generation and evolution of reactive radicals by metal-free catalysis. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 4169-78	9.5	471
584	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	10.3	460
583	Insights into Heterogeneous Catalysis of Persulfate Activation on Dimensional-Structured Nanocarbons. <i>ACS Catalysis</i> , 2015 , 5, 4629-4636	13.1	450
582	Sulfur and Nitrogen Co-Doped Graphene for Metal-Free Catalytic Oxidation Reactions. <i>Small</i> , 2015 , 11, 3036-44	11	412
581	A Comparative study of Fenton and Fenton-like reaction kinetics in decolourisation of wastewater. <i>Dyes and Pigments</i> , 2008 , 76, 714-720	4.6	410
580	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	10.3	408
579	Nonradical reactions in environmental remediation processes: Uncertainty and challenges. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 973-982	21.8	397

578	Occurrence of radical and nonradical pathways from carbocatalysts for aqueous and nonaqueous catalytic oxidation. <i>Applied Catalysis B: Environmental</i> , 2016 , 188, 98-105	21.8	386
577	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	21.8	370
576	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	12.8	362
575	Novel applications of red mud as coagulant, adsorbent and catalyst for environmentally benign processes. <i>Chemosphere</i> , 2008 , 72, 1621-35	8.4	352
574	Environmental-benign utilisation of fly ash as low-cost adsorbents. <i>Journal of Hazardous Materials</i> , 2006 , 136, 482-501	12.8	347
573	A review on photocatalysis for air treatment: From catalyst development to reactor design. <i>Chemical Engineering Journal</i> , 2017 , 310, 537-559	14.7	335
572	Different crystallographic one-dimensional MnO ₂ nanomaterials and their superior performance in catalytic phenol degradation. <i>Environmental Science & Technology</i> , 2013 , 47, 5882-7	10.3	335
571	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	21.8	333
570	Phosphate removal from wastewater using red mud. <i>Journal of Hazardous Materials</i> , 2008 , 158, 35-42	12.8	329
569	Activated carbon supported cobalt catalysts for advanced oxidation of organic contaminants in aqueous solution. <i>Applied Catalysis B: Environmental</i> , 2010 , 100, 529-534	21.8	324
568	Application of zeolite MCM-22 for basic dye removal from wastewater. <i>Journal of Colloid and Interface Science</i> , 2006 , 295, 71-8	9.3	315
567	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	21.8	308
566	Recent advances in transition metal-based electrocatalysts for alkaline hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14971-15005	13	281
565	Characterisation and environmental application of an Australian natural zeolite for basic dye removal from aqueous solution. <i>Journal of Hazardous Materials</i> , 2006 , 136, 946-52	12.8	278
564	Surface controlled generation of reactive radicals from persulfate by carbocatalysis on nanodiamonds. <i>Applied Catalysis B: Environmental</i> , 2016 , 194, 7-15	21.8	277
563	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	21.8	276
562	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	21.8	274
561	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	21.8	274

560	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	7.1	272
559	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	5.5	271
558	Dye Adsorption on Layered Graphite Oxide. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 138-148	14.8	268
557	Sulfate radicals induced from peroxymonosulfate by cobalt manganese oxides (Co(x)Mn(3-x)O4) for Fenton-Like reaction in water. <i>Journal of Hazardous Materials</i> , 2015 , 296, 128-137	12.8	266
556	Hollow carbon nanobubbles: monocrystalline MOF nanobubbles and their pyrolysis. <i>Chemical Science</i> , 2017 , 8, 3538-3546	9.4	264
555	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, 440-6	9.3	258
554	CO2 reforming of methane on Ni catalysts: Effects of the support phase and preparation technique. <i>Applied Catalysis B: Environmental</i> , 1998 , 16, 269-277	21.8	252
553	Magnetic core-shell CuFe2O4@C3N4 hybrids for visible light photocatalysis of Orange II. <i>Journal of Hazardous Materials</i> , 2015 , 297, 224-33	12.8	249
552	Facile synthesis of nitrogen doped reduced graphene oxide as a superior metal-free catalyst for oxidation. <i>Chemical Communications</i> , 2013 , 49, 9914-6	5.8	248
551	A novel lanthanum-modified bentonite, Phoslock, for phosphate removal from wastewaters. <i>Applied Clay Science</i> , 2009 , 46, 369-375	5.2	248
550	Wettability alteration of oil-wet carbonate by silica nanofluid. <i>Journal of Colloid and Interface Science</i> , 2016 , 461, 435-442	9.3	247
549	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	12.8	245
548	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	15.6	238
547	Facile assembly of Bi2O3/Bi2S3/MoS2 n-p heterojunction with layered n-Bi2O3 and p-MoS2 for enhanced photocatalytic water oxidation and pollutant degradation. <i>Applied Catalysis B: Environmental</i> , 2017 , 200, 47-55	21.8	234
546	Nanocarbons in different structural dimensions (0BD) for phenol adsorption and metal-free catalytic oxidation. <i>Applied Catalysis B: Environmental</i> , 2015 , 179, 352-362	21.8	220
545	0D (MoS2)/2D (g-C3N4) heterojunctions in Z-scheme for enhanced photocatalytic and electrochemical hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018 , 228, 64-74	21.8	220
544	Unveiling the active sites of graphene-catalyzed peroxymonosulfate activation. <i>Carbon</i> , 2016 , 107, 371-378	17.4	219
543	Oxidative degradation of dyes in water using Co2+/H2O2 and Co2+/peroxymonosulfate. <i>Journal of Hazardous Materials</i> , 2010 , 178, 385-9	12.8	214

542	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	3.9	213
541	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	10.4	209
540	Activation of Peroxydisulfate on Carbon Nanotubes: Electron-Transfer Mechanism. <i>Environmental Science & Technology</i> , 2019 , 53, 14595-14603	10.3	203
539	A comparative study of dye removal using fly ash treated by different methods. <i>Chemosphere</i> , 2005 , 60, 1401-7	8.4	200
538	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	21.8	198
537	Iron encapsulated in boron and nitrogen codoped carbon nanotubes as synergistic catalysts for Fenton-like reaction. <i>Water Research</i> , 2016 , 101, 281-291	12.5	197
536	Insights into N-doping in single-walled carbon nanotubes for enhanced activation of superoxides: a mechanistic study. <i>Chemical Communications</i> , 2015 , 51, 15249-52	5.8	195
535	Geopolymeric adsorbents from fly ash for dye removal from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2006 , 300, 52-9	9.3	195
534	Application of solid ash based catalysts in heterogeneous catalysis. <i>Environmental Science & Technology</i> , 2008 , 42, 7055-63	10.3	192
533	Activation of peroxymonosulfate by carbonaceous oxygen groups: experimental and density functional theory calculations. <i>Applied Catalysis B: Environmental</i> , 2016 , 198, 295-302	21.8	192
532	The Intrinsic Nature of Persulfate Activation and N-Doping in Carbocatalysis. <i>Environmental Science & Technology</i> , 2020 , 54, 6438-6447	10.3	188
531	Mixed Conducting Perovskite Materials as Superior Catalysts for Fast Aqueous-Phase Advanced Oxidation: A Mechanistic Study. <i>ACS Catalysis</i> , 2017 , 7, 388-397	13.1	186
530	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	21.8	185
529	Competitive adsorption of malachite green and Pb ions on natural zeolite. <i>Journal of Colloid and Interface Science</i> , 2007 , 314, 25-31	9.3	183
528	Cobalt exchanged zeolites for heterogeneous catalytic oxidation of phenol in the presence of peroxymonosulphate. <i>Applied Catalysis B: Environmental</i> , 2010 , 99, 163-169	21.8	181
527	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	3.9	180
526	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	21.8	179
525	Magnetic ZnFe ₂ O ₄ @CN ₄ Hybrid for Photocatalytic Degradation of Aqueous Organic Pollutants by Visible Light. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 17294-17302	3.9	177

524	Nanosize Zr-metal organic framework (UiO-66) for hydrogen and carbon dioxide storage. <i>Chemical Engineering Journal</i> , 2012 , 187, 415-420	14.7	176
523	Catalytic Conversion of Alkanes to Olefins by Carbon Dioxide Oxidative Dehydrogenation A Review. <i>Energy & Fuels</i> , 2004 , 18, 1126-1139	4.1	176
522	N-doped graphitic biochars from C-phycocyanin extracted Spirulina residue for catalytic persulfate activation toward nonradical disinfection and organic oxidation. <i>Water Research</i> , 2019 , 159, 77-86	12.5	175
521	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, 20-6	9.3	175
520	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	10.3	169
519	Dehydrogenation of ethane with carbon dioxide over supported chromium oxide catalysts. <i>Applied Catalysis A: General</i> , 2000 , 196, 1-8	5.1	167
518	Nano-Fe ^{II} encapsulated in microcarbon spheres: synthesis, characterization, and environmental applications. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 6235-41	9.5	166
517	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	14.7	165
516	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	13	164
515	Single-atom catalysis in advanced oxidation processes for environmental remediation. <i>Chemical Society Reviews</i> , 2021 , 50, 5281-5322	58.5	164
514	Nitrogen- and Sulfur-Codoped Hierarchically Porous Carbon for Adsorptive and Oxidative Removal of Pharmaceutical Contaminants. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7184-93	9.5	162
513	AMP-activated protein kinase, stress responses and cardiovascular diseases. <i>Clinical Science</i> , 2012 , 122, 555-73	6.5	162
512	Synergistic and competitive adsorption of organic dyes on multiwalled carbon nanotubes. <i>Chemical Engineering Journal</i> , 2012 , 197, 34-40	14.7	161
511	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	5.1	161
510	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	21.8	160
509	Graphene facilitated visible light photodegradation of methylene blue over titanium dioxide photocatalysts. <i>Chemical Engineering Journal</i> , 2013 , 214, 298-303	14.7	160
508	Heterogeneous activation of peroxymonosulfate by amorphous boron for degradation of bisphenol S. <i>Journal of Hazardous Materials</i> , 2017 , 322, 532-539	12.8	160
507	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, 114-9	9.3	160

506	Removal of emulsified oil from oily wastewater using agricultural waste barley straw. <i>Biochemical Engineering Journal</i> , 2010 , 49, 78-83	4.2	159
505	Solid-state conversion of fly ash to effective adsorbents for Cu removal from wastewater. <i>Journal of Hazardous Materials</i> , 2007 , 139, 254-9	12.8	159
504	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	21.8	157
503	Efficient Catalytic Ozonation over Reduced Graphene Oxide for p-Hydroxylbenzoic Acid (PHBA) Destruction: Active Site and Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9710-20	9.5	157
502	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	21.8	157
501	Low temperature combustion synthesis of nitrogen-doped graphene for metal-free catalytic oxidation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 3432-3440	13	156
500	2D/2D nano-hybrids of MnO ₂ /reduced graphene oxide for catalytic ozonation and coupling peroxymonosulfate activation. <i>Journal of Hazardous Materials</i> , 2016 , 301, 56-64	12.8	153
499	Coal ash conversion into effective adsorbents for removal of heavy metals and dyes from wastewater. <i>Journal of Hazardous Materials</i> , 2006 , 133, 243-51	12.8	153
498	N-Doped Graphene from Metal-Organic Frameworks for Catalytic Oxidation of p-Hydroxylbenzoic Acid: N-Functionality and Mechanism. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2693-2701	8.3	152
497	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	3.7	150
496	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	12.8	150
495	ZnO/montmorillonite for photocatalytic and photochemical degradation of methylene blue. <i>Applied Clay Science</i> , 2011 , 53, 553-560	5.2	149
494	A new metal-free carbon hybrid for enhanced photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 16745-54	9.5	144
493	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, 467-73	9.3	143
492	Nanosized Co ₃ O ₄ /SiO ₂ for heterogeneous oxidation of phenolic contaminants in waste water. <i>Separation and Purification Technology</i> , 2011 , 77, 230-236	8.3	143
491	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, 344-52	9.3	142
490	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	3.9	142
489	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	14.7	141

488	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	21.8	141
487	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	21.8	141
486	Degradation of Cosmetic Microplastics via Functionalized Carbon Nanosprings. <i>Matter</i> , 2019 , 1, 745-758	12.7	140
485	Kinetic modelling and mechanism of dye adsorption on unburned carbon. <i>Dyes and Pigments</i> , 2007 , 72, 308-314	4.6	139
484	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	9.3	137
483	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	9.3	135
482	Carbocatalytic activation of persulfate for removal of antibiotics in water solutions. <i>Chemical Engineering Journal</i> , 2016 , 288, 399-405	14.7	135
481	Potential Difference Driving Electron Transfer Defective Carbon Nanotubes toward Selective Oxidation of Organic Micropollutants. <i>Environmental Science & Technology</i> , 2020 , 54, 8464-8472	10.3	133
480	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	21.8	133
479	Heteroatom (N or N-S)-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	15.6	133
478	Magnetic Fe ₃ O ₄ /carbon sphere/cobalt composites for catalytic oxidation of phenol solutions with sulfate radicals. <i>Chemical Engineering Journal</i> , 2014 , 245, 1-9	14.7	133
477	Effects of acidic treatments on the pore and surface properties of Ni catalyst supported on activated carbon. <i>Carbon</i> , 1998 , 36, 283-292	10.4	133
476	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, 19914-23	9.5	132
475	Halogen element modified titanium dioxide for visible light photocatalysis. <i>Chemical Engineering Journal</i> , 2010 , 162, 437-447	14.7	131
474	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	21.8	131
473	Physical and chemical activation of reduced graphene oxide for enhanced adsorption and catalytic oxidation. <i>Nanoscale</i> , 2014 , 6, 766-71	7.7	129
472	Facile synthesis of carbon-doped mesoporous anatase TiO ₂ for the enhanced visible-light driven photocatalysis. <i>Chemical Communications</i> , 2014 , 50, 13971-4	5.8	128
471	Co ₃ O ₄ nanocrystals with predominantly exposed facets: synthesis, environmental and energy applications. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14427	13	128

470	Removal of emulsified food and mineral oils from wastewater using surfactant modified barley straw. <i>Bioresource Technology</i> , 2009 , 100, 5744-9	11	128
469	Adsorption and heterogeneous advanced oxidation of phenolic contaminants using Fe loaded mesoporous SBA-15 and H ₂ O ₂ . <i>Chemical Engineering Journal</i> , 2010 , 164, 255-260	14.7	127
468	Surface-tailored nanodiamonds as excellent metal-free catalysts for organic oxidation. <i>Carbon</i> , 2016 , 103, 404-411	10.4	127
467	Rational Catalyst Design for N ₂ Reduction under Ambient Conditions: Strategies toward Enhanced Conversion Efficiency. <i>ACS Catalysis</i> , 2020 , 10, 6870-6899	13.1	126
466	Physical and chemical regeneration of zeolitic adsorbents for dye removal in wastewater treatment. <i>Chemosphere</i> , 2006 , 65, 82-7	8.4	126
465	Ferric carbide nanocrystals encapsulated in nitrogen-doped carbon nanotubes as an outstanding environmental catalyst. <i>Environmental Science: Nano</i> , 2017 , 4, 170-179	7.1	125
464	Effects of nitrogen-, boron-, and phosphorus-doping or codoping on metal-free graphene catalysis. <i>Catalysis Today</i> , 2015 , 249, 184-191	5.3	123
463	Research progress and materials selection guidelines on mixed conducting perovskite-type ceramic membranes for oxygen production. <i>RSC Advances</i> , 2011 , 1, 1661	3.7	123
462	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	21.8	121
461	Synthesis of Magnetic Cobalt Nanoparticles Anchored on Graphene Nanosheets and Catalytic Decomposition of Orange II. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 17341-17350	3.9	120
460	Porous Carbons: Structure-Oriented Design and Versatile Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 1909265	15.6	119
459	One-pot hydrothermal synthesis of ZnO-reduced graphene oxide composites using Zn powders for enhanced photocatalysis. <i>Chemical Engineering Journal</i> , 2013 , 229, 533-539	14.7	119
458	Surfactant modified barley straw for removal of acid and reactive dyes from aqueous solution. <i>Bioresource Technology</i> , 2009 , 100, 4292-5	11	119
457	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	15.6	118
456	Adsorptive and photocatalytic removal of reactive dyes by silver nanoparticle-colemanite ore waste. <i>Chemical Engineering Journal</i> , 2014 , 242, 333-340	14.7	117
455	Removal of heavy metals by biosorption. <i>Environmental Chemistry Letters</i> , 2012 , 10, 109-117	13.3	117
454	One-pot synthesis of N-doped graphene for metal-free advanced oxidation processes. <i>Carbon</i> , 2016 , 102, 279-287	10.4	115
453	Single and co-adsorption of heavy metals and humic acid on fly ash. <i>Separation and Purification Technology</i> , 2008 , 58, 353-358	8.3	114

452	Batch and column studies of phosphate and nitrate adsorption on waste solids containing boron impurity. <i>Chemical Engineering Journal</i> , 2013 , 222, 108-119	14.7	113
451	Estimate of sulfur, arsenic, mercury, fluorine emissions due to spontaneous combustion of coal gangue: An important part of Chinese emission inventories. <i>Environmental Pollution</i> , 2016 , 209, 107-13	9.3	112
450	Dye adsorption on unburned carbon: kinetics and equilibrium. <i>Journal of Hazardous Materials</i> , 2005 , 126, 71-7	12.8	110
449	MnO ₂ activation of peroxymonosulfate for catalytic phenol degradation in aqueous solutions. <i>Catalysis Communications</i> , 2012 , 26, 144-148	3.2	108
448	Adsorption of Cu(II), Pb(II) and humic acid on natural zeolite tuff in single and binary systems. <i>Separation and Purification Technology</i> , 2008 , 62, 64-70	8.3	108
447	Boosting Fenton-Like Reactions via Single Atom Fe Catalysis. <i>Environmental Science & Technology</i> , 2019 , 53, 11391-11400	10.3	105
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443	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	13	103
442	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	14.7	102
441	Characteristics of coal fly ash and adsorption application. <i>Fuel</i> , 2008 , 87, 3469-3473	7.1	102
440	Oxygen Vacancies in Shape Controlled CuO/Reduced Graphene Oxide/InO Hybrid for Promoted Photocatalytic Water Oxidation and Degradation of Environmental Pollutants. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11678-11688	9.5	101
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436	Monodisperse Co ₃ O ₄ quantum dots on porous carbon nitride nanosheets for enhanced visible-light-driven water oxidation. <i>Applied Catalysis B: Environmental</i> , 2018 , 223, 2-9	21.8	97
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