

# Shaobin Wang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Spatial heterogeneity of human lifespan in relation to living environment and socio-economic polarization: a case study in the Beijing-Tianjin-Hebei region, China.. <i>Environmental Science and Pollution Research</i> , <b>2022</b> , 1	5.1	0
594	Superstructures with Atomic-Level Arranged Perovskite and Oxide Layers for Advanced Oxidation with an Enhanced Non-Free Radical Pathway. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 1899-1909	8.3	8
593	Spatial-temporal variation and coupling analysis of residential energy consumption and economic growth in China. <i>Applied Energy</i> , <b>2022</b> , 309, 118504	10.7	2
592	Non-linear relations between life expectancy, socio-economic, and air pollution factors: a global assessment with spatial disparities.. <i>Environmental Science and Pollution Research</i> , <b>2022</b> , 1	5.1	1
591	Electro-peroxone with solid polymer electrolytes: A novel system for degradation of plasticizers in natural effluents.. <i>Water Research</i> , <b>2022</b> , 216, 118302	12.5	0
590	Exploring life expectancy and its social determinants in China: Enlightenment from a spatial and temporal framework.. <i>The Lancet Regional Health - Western Pacific</i> , <b>2022</b> , 23, 100469	5	
589	Convergence characteristics and distribution patterns of residential electricity consumption in China: An urban-rural gap perspective. <i>Energy</i> , <b>2022</b> , 254, 124292	7.9	
588	Spatiotemporal trends in life expectancy and impacts of economic growth and air pollution in 134 countries: A Bayesian modeling study.. <i>Social Science and Medicine</i> , <b>2021</b> , 293, 114660	5.1	2
587	Correlation of Active Sites to Generated Reactive Species and Degradation Routes of Organics in Peroxymonosulfate Activation by Co-Loaded Carbon. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 16163-16174	10.3	17
586	Mechanism of Electrocatalytic Wet Air Oxidation of PPCPs over Solid Catalysts: Kinetic Insight with a Universal Model. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 16951-16960	3.9	0
585	Revisiting the Graphitized Nanodiamond-Mediated Activation of Peroxymonosulfate: Singlet Oxygenation versus Electron Transfer. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 16078-16087	10.3	18
584	Temperature-Induced Variations in Photocatalyst Properties and Photocatalytic Hydrogen Evolution: Differences in UV, Visible, and Infrared Radiation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 7277-7285	8.3	9
583	Engineered Graphitic Carbon Nitride-Based Photocatalysts for Visible-Light-Driven Water Splitting: A Review. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 6504-6526	4.1	46
582	Exploring the spatial-temporal distribution and evolution of population aging and social-economic indicators in China. <i>BMC Public Health</i> , <b>2021</b> , 21, 966	4.1	2
581	Photoelectrochemical Water Oxidation and Longevous Photoelectric Conversion by a Photosystem II Electrode. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100911	21.8	6
580	Tailoring collaborative ND functionalities of graphene oxide for enhanced selective oxidation of benzyl alcohol. <i>Carbon</i> , <b>2021</b> , 182, 715-715	10.4	4
579	Global Action on SDGs: Policy Review and Outlook in a Post-Pandemic Era. <i>Sustainability</i> , <b>2021</b> , 13, 6461	3.6	9

578	Manganese-Based Micro/Nanomotors: Synthesis, Motion, and Applications. <i>Small</i> , <b>2021</b> , e2100927	11	6
577	Persulfate Oxidation of Sulfamethoxazole by Magnetic Iron-Char Composites via Nonradical Pathways: Fe(IV) Versus Surface-Mediated Electron Transfer. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 10077-10086	10.3	31
576	Catalytic partial oxidation of methane to syngas: review of perovskite catalysts and membrane reactors. <i>Catalysis Reviews - Science and Engineering</i> , <b>2021</b> , 63, 1-67	12.6	22
575	Quasi-MOF derivative-based electrode for efficient electro-Fenton oxidation. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 401, 123423	12.8	28
574	Graphitic Carbon Nitride-Based Z-Scheme Structure for Photocatalytic CO <sub>2</sub> Reduction. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 7-24	4.1	42
573	Self-Supporting MnO <sub>x</sub> Nanoparticles on Loofah-Sponge-Derived Carbon Felt for Electroassisted Catalytic Wet Air Oxidation of Water Contaminants. <i>ACS ES&amp;T Engineering</i> , <b>2021</b> , 1, 173-182		3
572	Encapsulation of cuprous/cobalt sites in metal organic framework for enhanced CH <sub>4</sub> /CH <sub>2</sub> separation. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 583, 605-613	9.3	4
571	Mechanistic Investigations of the Pyridinic N-Co Structures in Co Embedded N-Doped Carbon Nanotubes for Catalytic Ozonation. <i>ACS ES&amp;T Engineering</i> , <b>2021</b> , 1, 32-45		14
570	Biochar cathode: Reinforcing electro-Fenton pathway against four-electron reduction by controlled carbonization and surface chemistry. <i>Science of the Total Environment</i> , <b>2021</b> , 754, 142136	10.2	15
569	Synthesis of nitrogen and sulfur doped graphene on graphite foam for electro-catalytic phenol degradation and water splitting. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 583, 139-148	9.3	14
568	Exploring the spatial spillover effects of low-grade coal consumption and influencing factors in China. <i>Resources Policy</i> , <b>2021</b> , 70, 101906	7.2	4
567	Sequential Ultrafiltration-Catalysis Membrane for Excellent Removal of Multiple Pollutants in Water. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 2652-2661	10.3	30
566	Novel two-dimensional crystalline carbon nitrides beyond g-C <sub>3</sub> N <sub>4</sub> : structure and applications. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 17-33	13	29
565	Metal-organic frameworks derived C/TiO <sub>2</sub> for visible light photocatalysis: Simple synthesis and contribution of carbon species. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 403, 124048	12.8	50
564	An Adsorption-Catalysis Pathway toward Sustainable Application of Mesoporous Carbon Nanospheres for Efficient Environmental Remediation. <i>ACS ES&amp;T Water</i> , <b>2021</b> , 1, 145-156		10
563	Fe containing template derived atomic Fe-N <sub>x</sub> to boost Fenton-like reaction and charge migration analysis on highly active Fe-N <sub>4</sub> sites. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 14793-14805	13	15
562	Single-atom catalysis in advanced oxidation processes for environmental remediation. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 5281-5322	58.5	164
561	Piezoelectric activation of peroxymonosulfate by MoS <sub>2</sub> nanoflowers for the enhanced degradation of aqueous organic pollutants. <i>Environmental Science: Nano</i> , <b>2021</b> , 8, 784-794	7.1	21

560	Bidirectional Progressive Optimization of Carbon and Nitrogen Defects in Solar-Driven Regenerable Adsorbent to Remove UV-Filters from Water. <i>ACS ES&amp;T Engineering</i> , <b>2021</b> , 1, 456-466		8
559	Carbocatalytic ozonation toward advanced water purification. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 18994-19024	13	7
558	Facile preparation of hydrophilic In <sub>2</sub> O <sub>3</sub> nanospheres and rods with improved performances for photocatalytic degradation of PFOA. <i>Environmental Science: Nano</i> , <b>2021</b> , 8, 1010-1018	7.1	8
557	Selective oxidation of alcohols by graphene-like carbon with electrophilic oxygen and integrated pyridinic nitrogen active sites. <i>Nanoscale</i> , <b>2021</b> , 13, 12979-12990	7.7	3
556	Observing the silent world under COVID-19 with a comprehensive impact analysis based on human mobility. <i>Scientific Reports</i> , <b>2021</b> , 11, 14691	4.9	1
555	Edge-Rich Bicrystalline 1T/2H-MoS <sub>2</sub> Cocatalyst-Decorated {110} Terminated CeO Nanorods for Photocatalytic Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 35818-35827	9.5	26
554	Density Functional Theory Calculations for Insight into the Heterocatalyst Reactivity and Mechanism in Persulfate-Based Advanced Oxidation Reactions. <i>ACS Catalysis</i> , <b>2021</b> , 11, 11129-11159	13.1	31
553	Economic growth, electricity consumption, and urbanization in China: A tri-variate investigation using panel data modeling from a regional disparity perspective. <i>Journal of Cleaner Production</i> , <b>2021</b> , 318, 128529	10.3	4
552	Atomically dispersed cobalt on graphitic carbon nitride as a robust catalyst for selective oxidation of ethylbenzene by peroxymonosulfate. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 3029-3035	13	11
551	Duet FeC and FeN Sites for HO Generation and Activation toward Enhanced Electro-Fenton Performance in Wastewater Treatment. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 1260-1269	10.3	36
550	Origins of Electron-Transfer Regime in Persulfate-Based Nonradical Oxidation Processes. <i>Environmental Science &amp; Technology</i> , <b>2021</b> ,	10.3	38
549	Nanocarbon-Based Catalytic Ozonation for Aqueous Oxidation: Engineering Defects for Active Sites and Tunable Reaction Pathways. <i>ACS Catalysis</i> , <b>2020</b> , 10, 13383-13414	13.1	36
548	A Superaerophobic Bimetallic Selenides Heterostructure for Efficient Industrial-Level Oxygen Evolution at Ultra-High Current Densities. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 104	19.5	56
547	A generalized kinetic model for electro-assisted catalytic wet air oxidation of triclosan on Ni@NiO/graphite electrode. <i>Chemical Engineering Science</i> , <b>2020</b> , 222, 115696	4.4	3
546	Rational Catalyst Design for N <sub>2</sub> Reduction under Ambient Conditions: Strategies toward Enhanced Conversion Efficiency. <i>ACS Catalysis</i> , <b>2020</b> , 10, 6870-6899	13.1	126
545	Heterogeneous activation of peroxymonosulfate by hierarchically porous cobalt/iron bimetallic oxide nanosheets for degradation of phenol solutions. <i>Chemosphere</i> , <b>2020</b> , 256, 127160	8.4	17
544	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> , <b>2020</b> , 399, 123043	12.8	79
543	Potential Difference Driving Electron Transfer Defective Carbon Nanotubes toward Selective Oxidation of Organic Micropollutants. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 8464-8472	10.3	133

542	Criteria of active sites in nonradical persulfate activation process from integrated experimental and theoretical investigations: boron-nitrogen-co-doped nanocarbon-mediated peroxydisulfate activation as an example. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 1899-1911	7.1	36
541	Photogenerated Electron Transfer Process in Heterojunctions: In Situ Irradiation XPS. <i>Small Methods</i> , <b>2020</b> , 4, 2000214	12.8	59
540	Insights into the Adsorption of VOCs on a Cobalt-Adeninate Metal-Organic Framework (Bio-MOF-11). <i>ACS Omega</i> , <b>2020</b> , 5, 15402-15408	3.9	16
539	Natural sponge-like wood-derived aerogel for solar-assisted adsorption and recovery of high-viscous crude oil. <i>Chemical Engineering Journal</i> , <b>2020</b> , 400, 125865	14.7	43
538	Synergy of NiO quantum dots and temperature on enhanced photocatalytic and thermophoto hydrogen evolution. <i>Chemical Engineering Journal</i> , <b>2020</b> , 390, 124634	14.7	14
537	Synthesis of porous nitrogen doped carbon cage from carbide for catalytic oxidation. <i>Carbon</i> , <b>2020</b> , 163, 43-55	10.4	12
536	Fast and Long-Lasting Iron(III) Reduction by Boron Toward Green and Accelerated Fenton Chemistry. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 16517-16526	16.4	87
535	Nano-Fe <sub>0</sub> embedded in N-doped carbon architectures for enhanced oxidation of aqueous contaminants. <i>Chemical Engineering Science</i> , <b>2020</b> , 227, 115941	4.4	6
534	Rigorous and reliable operations for electrocatalytic nitrogen reduction. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 278, 119325	21.8	28
533	Efficient photocatalytic overall water splitting on metal-free 1D SWCNT/2D ultrathin C <sub>3</sub> N <sub>4</sub> heterojunctions via novel non-resonant plasmonic effect. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 278, 119312	21.8	46
532	Surface chemistry-dependent activity and comparative investigation on the enhanced photocatalytic performance of graphitic carbon nitride modified with various nanocarbons. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 569, 12-21	9.3	10
531	Spatial disparity and hierarchical cluster analysis of final energy consumption in China. <i>Energy</i> , <b>2020</b> , 197, 117195	7.9	27
530	Boosting alkaline hydrogen evolution and Zn-ZnO cell induced by interfacial electron transfer. <i>Nano Energy</i> , <b>2020</b> , 71, 104621	17.1	48
529	Porous Carbons: Structure-Oriented Design and Versatile Applications. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909265	15.6	119
528	Functional carbon nitride materials for water oxidation: from heteroatom doping to interface engineering. <i>Nanoscale</i> , <b>2020</b> , 12, 6937-6952	7.7	20
527	Boosting CO adsorption and selectivity in metal-organic frameworks of MIL-96(Al) second metal Ca coordination.. <i>RSC Advances</i> , <b>2020</b> , 10, 8130-8139	3.7	19
526	Nonstoichiometric perovskite for enhanced catalytic oxidation through excess A-site cation. <i>Chemical Engineering Science</i> , <b>2020</b> , 219, 115596	4.4	11
525	Understanding of the Oxidation Behavior of Benzyl Alcohol by Peroxymonosulfate via Carbon Nanotubes Activation. <i>ACS Catalysis</i> , <b>2020</b> , 10, 3516-3525	13.1	76

524	Nitrogen-doped Carbon Nanospheres-Modified Graphitic Carbon Nitride with Outstanding Photocatalytic Activity. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 24	19.5	27
523	Structural-Phase Catalytic Redox Reactions in Energy and Environmental Applications. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905739	24	31
522	Porous metal-porphyrin triazine-based frameworks for efficient CO <sub>2</sub> electroreduction. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 270, 118908	21.8	34
521	Facet- and defect-dependent activity of perovskites in catalytic evolution of sulfate radicals. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 272, 118972	21.8	48
520	Nonradical oxidation in persulfate activation by graphene-like nanosheets (GNS): Differentiating the contributions of singlet oxygen ( <sup>1</sup> O <sub>2</sub> ) and sorption-dependent electron transfer. <i>Chemical Engineering Journal</i> , <b>2020</b> , 393, 124725	14.7	47
519	Efficient Wastewater Remediation Enabled by Self-Assembled Perovskite Oxide Heterostructures with Multiple Reaction Pathways. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 6033-6042	8.3	24
518	Electrodeposited Metal Organic Framework toward Excellent Hydrogen Sensing in an Ionic Liquid. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 4376-4385	5.6	11
517	Removal of methylene blue (MB) by bimetallic- metal organic framework. <i>Journal of Applied Materials and Technology</i> , <b>2020</b> , 2, 36-49	0.3	3
516	Enhancing Acidic Dye Adsorption by Updated Version of UiO-66. <i>Journal of Applied Materials and Technology</i> , <b>2020</b> , 1, 54-62	0.3	3
515	Unzipping carbon nanotubes to nanoribbons for revealing the mechanism of nonradical oxidation by carbocatalysis. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 276, 119146	21.8	48
514	Interfacial CoAl <sub>2</sub> O <sub>4</sub> from ZIF-67@Al <sub>2</sub> O <sub>3</sub> pellets toward catalytic activation of peroxymonosulfate for metronidazole removal. <i>Chemical Engineering Journal</i> , <b>2020</b> , 397, 125339	14.7	35
513	Zn-MoS <sub>2</sub> nanocatalysts anchored in porous membrane for accelerated catalytic conversion of water contaminants. <i>Chemical Engineering Journal</i> , <b>2020</b> , 398, 125455	14.7	17
512	Persistent free radicals on N-doped hydrochar for degradation of endocrine disrupting compounds. <i>Chemical Engineering Journal</i> , <b>2020</b> , 398, 125538	14.7	24
511	The duet of surface and radical-based carbocatalysis for oxidative destructions of aqueous contaminants over built-in nanotubes of graphite. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 384, 121486	12.8	13
510	Fundamental understanding of oxygen content in activated carbon on acetone adsorption/desorption. <i>Applied Surface Science</i> , <b>2020</b> , 508, 145211	6.7	16
509	Boride-based electrocatalysts: Emerging candidates for water splitting. <i>Nano Research</i> , <b>2020</b> , 13, 293-314	14	69
508	Nanostructured manganese oxides: natural/artificial formation and their induced catalysis for wastewater remediation. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 368-396	7.1	31
507	Hydrochars from pinewood for adsorption and nonradical catalysis of bisphenols. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 385, 121548	12.8	23

506	Confinement of Ag(I) Sites within MIL-101 for Robust Ethylene/Ethane Separation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 823-830	8.3	10
505	Recent progress in g-C <sub>3</sub> N <sub>4</sub> quantum dots: synthesis, properties and applications in photocatalytic degradation of organic pollutants. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 485-502	13	103
504	Postsynthesis Oxygen Nonstoichiometric Regulation: A New Strategy for Performance Enhancement of Perovskites in Advanced Oxidation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 99-109	3.9	12
503	Impact of urbanization factors on mortality due to unintentional injuries using panel data regression model and spatial-temporal analysis. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 2945-2954	5.1	0
502	Insights into the Electron-Transfer Regime of Peroxydisulfate Activation on Carbon Nanotubes: The Role of Oxygen Functional Groups. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 1267-1275	10.3	169
501	Biomass-derived functional porous carbons for adsorption and catalytic degradation of binary micropollutants in water. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 389, 121881	12.8	40
500	Ni-based layered metal-organic frameworks with palladium for electrochemical dechlorination. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 264, 118505	21.8	29
499	Nonprecious bimetallic (Mo, Fe)-N/C nanostructures loaded on PVDF membrane for toxic Cr reduction from water. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 389, 121844	12.8	8
498	Nonepitaxial Gold-Tipped ZnSe Hybrid Nanorods for Efficient Photocatalytic Hydrogen Production. <i>Small</i> , <b>2020</b> , 16, e1902231	11	20
497	Catalysis of a Single Transition Metal Site for Water Oxidation: From Mononuclear Molecules to Single Atoms. <i>Advanced Materials</i> , <b>2020</b> , 32, e1904037	24	46
496	UVC-assisted photocatalytic degradation of carbamazepine by Nd-doped SbO/TiO photocatalyst. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 562, 461-469	9.3	17
495	Production, properties, and catalytic applications of sludge derived biochar for environmental remediation. <i>Water Research</i> , <b>2020</b> , 187, 116390	12.5	70
494	Magnetic ZnO@Fe <sub>3</sub> O <sub>4</sub> composite for self-generated H <sub>2</sub> O <sub>2</sub> toward photo-Fenton-like oxidation of nitrophenol. <i>Composites Part B: Engineering</i> , <b>2020</b> , 200, 108345	10	19
493	Electrocatalysts for acidic oxygen evolution reaction: Achievements and perspectives. <i>Nano Energy</i> , <b>2020</b> , 78, 105392	17.1	31
492	Hydroxyl radical dominated elimination of plasticizers by peroxymonosulfate on metal-free boron: Kinetics and mechanisms. <i>Water Research</i> , <b>2020</b> , 186, 116361	12.5	34
491	Phase change on stainless-steel mesh for promoting sulfate radical formation via peroxymonosulfate oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 278, 119333	21.8	9
490	Synergistic Adsorption and Oxidation of Ciprofloxacin by Biochar Derived from Metal-Enriched Phytoremediation Plants: Experimental and Computational Insights. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> ,	9.5	35
489	Mechanistic investigations of N-doped graphene/2H(1T)-MoS <sub>2</sub> for Li/K-ions batteries. <i>Nano Energy</i> , <b>2020</b> , 78, 105352	17.1	9

488	Acidification and bubble template derived porous g-C <sub>3</sub> N <sub>4</sub> for efficient photodegradation and hydrogen evolution. <i>Chinese Chemical Letters</i> , <b>2020</b> , 31, 2668-2672	8.1	21
487	Ultrafine copper nanoclusters and single sites for Fenton-like reactions with high atom utilities. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 2595-2606	7.1	8
486	Fast and Long-Lasting Iron(III) Reduction by Boron Toward Green and Accelerated Fenton Chemistry. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 16660-16669	3.6	10
485	Roles of structure defect, oxygen groups and heteroatom doping on carbon in nonradical oxidation of water contaminants. <i>Water Research</i> , <b>2020</b> , 185, 116244	12.5	77
484	Iridium-based nanomaterials for electrochemical water splitting. <i>Nano Energy</i> , <b>2020</b> , 78, 105270	17.1	73
483	Spatial heterogeneity of the associations of economic and health care factors with infant mortality in China using geographically weighted regression and spatial clustering. <i>Social Science and Medicine</i> , <b>2020</b> , 263, 113287	5.1	7
482	Nitrogen-doped vertical graphene nanosheets by high-flux plasma enhanced chemical vapor deposition as efficient oxygen reduction catalysts for Zn  air batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 23248-23256	13	11
481	Self-detoxifying hollow zinc silica nanospheres with tunable Ag ion release-recapture capability: A nanoantibiotic for efficient MRSA inhibition. <i>Composites Part B: Engineering</i> , <b>2020</b> , 202, 108415	10	6
480	Catalytic degradation of antibiotics by metal-free catalysis over nitrogen-doped graphene. <i>Catalysis Today</i> , <b>2020</b> , 357, 341-349	5.3	29
479	Synergy of carbocatalytic and heat activation of persulfate for evolution of reactive radicals toward metal-free oxidation. <i>Catalysis Today</i> , <b>2020</b> , 355, 319-324	5.3	13
478	Novel carbon and defects co-modified g-CN for highly efficient photocatalytic degradation of bisphenol A under visible light. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 384, 121323	12.8	57
477	Oxidative degradation of pharmaceutical losartan potassium with N-doped hierarchical porous carbon and peroxymonosulfate. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122971	14.7	34
476	Surface engineering of hollow carbon nitride microspheres for efficient photoredox catalysis. <i>Chemical Engineering Journal</i> , <b>2020</b> , 381, 122593	14.7	25
475	Graphitic biochar catalysts from anaerobic digestion sludge for nonradical degradation of micropollutants and disinfection. <i>Chemical Engineering Journal</i> , <b>2020</b> , 384, 123244	14.7	58
474	Structure-dependent catalysis of cuprous oxides in peroxymonosulfate activation via nonradical pathway with a high oxidation capacity. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 385, 121518	12.8	50
473	Superior performance of FeVO <sub>4</sub> @CeO uniform core-shell nanostructures in heterogeneous Fenton-sonophotocatalytic degradation of 4-nitrophenol. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 382, 121059	12.8	48
472	High-performance porous graphene from synergetic nitrogen doping and physical activation for advanced nonradical oxidation. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 381, 121010	12.8	33
471	Core/shell FeVO <sub>4</sub> @BiOCl heterojunction as a durable heterogeneous Fenton catalyst for the efficient sonophotocatalytic degradation of p-nitrophenol. <i>Separation and Purification Technology</i> , <b>2020</b> , 231, 115915	8.3	39



470	MIL-101(Fe)/g-C <sub>3</sub> N <sub>4</sub> 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> , <b>2020</b> , 272, 119033	21.8	131
469	Water-stable MOFs-based core-shell nanostructures for advanced oxidation towards environmental remediation. <i>Composites Part B: Engineering</i> , <b>2020</b> , 192, 107985	10	22
468	Spatial patterns and social-economic influential factors of population aging: A global assessment from 1990 to 2010. <i>Social Science and Medicine</i> , <b>2020</b> , 253, 112963	5.1	12
467	The Intrinsic Nature of Persulfate Activation and N-Doping in Carbocatalysis. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 6438-6447	10.3	188
466	Photocatalytic activation of peroxymonosulfate by surface-tailored carbon quantum dots. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 395, 122695	12.8	36
465	Role of oxygen vacancies and Mn sites in hierarchical Mn <sub>2</sub> O <sub>3</sub> /LaMnO <sub>3</sub> -perovskite composites for aqueous organic pollutants decontamination. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 245, 546-554	21.8	91
464	Cobalt nanoparticles embedded in N-doped carbon on carbon cloth as free-standing electrodes for electrochemically-assisted catalytic oxidation of phenol and overall water splitting. <i>Carbon</i> , <b>2019</b> , 155, 287-297	10.4	30
463	Peroxydisulfate activation by positively polarized carbocatalyst for enhanced removal of aqueous organic pollutants. <i>Water Research</i> , <b>2019</b> , 166, 115043	12.5	86
462	Synergy of nitrogen doping and structural defects on hierarchically porous carbons toward catalytic oxidation via a non-radical pathway. <i>Carbon</i> , <b>2019</b> , 155, 268-278	10.4	38
461	Electronic structure modulation of covalent organic frameworks by single-atom Fe doping for enhanced oxidation of aqueous contaminants. <i>Chemical Engineering Science</i> , <b>2019</b> , 209, 115211	4.4	33
460	Manganese oxide integrated catalytic ceramic membrane for degradation of organic pollutants using sulfate radicals. <i>Water Research</i> , <b>2019</b> , 167, 115110	12.5	86
459	New insight to the role of edges and heteroatoms in nanocarbons for oxygen reduction reaction. <i>Nano Energy</i> , <b>2019</b> , 66, 104096	17.1	44
458	Adsorption of cerium (III) by HKUST-1 metal-organic framework from aqueous solution. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 542, 421-428	9.3	51
457	Nickel in hierarchically structured nitrogen-doped graphene for robust and promoted degradation of antibiotics. <i>Journal of Cleaner Production</i> , <b>2019</b> , 218, 202-211	10.3	26
456	Spatial variations and macroeconomic determinants of life expectancy and mortality rate in China: a county-level study based on spatial analysis models. <i>International Journal of Public Health</i> , <b>2019</b> , 64, 773-783	4	11
455	Highly Dispersed NiCo <sub>2</sub> O <sub>4</sub> Nanodots Decorated Three-Dimensional g-C <sub>3</sub> N <sub>4</sub> for Enhanced Photocatalytic H <sub>2</sub> Generation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> ,	8.3	11
454	Origins of boron catalysis in peroxymonosulfate activation and advanced oxidation. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 23904-23913	13	33
453	Interfacial-engineered cobalt@carbon hybrids for synergistically boosted evolution of sulfate radicals toward green oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 256, 117795	21.8	62

452	Tannic acid-Fe coordination derived Fe/N-doped carbon hybrids for catalytic oxidation processes. <i>Applied Surface Science</i> , <b>2019</b> , 489, 44-54	6.7	23
451	Cuprous/ Vanadium Sites on MIL-101 for Selective CO Adsorption from Gas Mixtures with Superior Stability. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 11284-11292	8.3	19
450	Electro-assisted catalytic wet air oxidation of organic pollutants on a MnO@C/GF anode under room condition. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 256, 117822	21.8	24
449	Ultrathin nickel-cobalt inorganic-organic hydroxide hybrid nanobelts as highly efficient electrocatalysts for oxygen evolution reaction. <i>Electrochimica Acta</i> , <b>2019</b> , 318, 966-976	6.7	12
448	Facile tailoring of Co-based spinel hierarchical hollow microspheres for highly efficient catalytic conversion of CO. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 552, 476-484	9.3	5
447	Occurrence of both hydroxyl radical and surface oxidation pathways in N-doped layered nanocarbons for aqueous catalytic ozonation. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 254, 283-291	21.8	61
446	Synthesis of Fe <sub>2</sub> O <sub>3</sub> loaded porous g-C <sub>3</sub> N <sub>4</sub> photocatalyst for photocatalytic reduction of dinitrogen to ammonia. <i>Chemical Engineering Journal</i> , <b>2019</b> , 373, 572-579	14.7	99
445	Recent advances in transition metal-based electrocatalysts for alkaline hydrogen evolution. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 14971-15005	13	281
444	Residential energy consumption and its linkages with life expectancy in mainland China: A geographically weighted regression approach and energy-ladder-based perspective. <i>Energy</i> , <b>2019</b> , 177, 347-357	7.9	13
443	Fabrication of stable copper nanoparticles embedded in nanocellulose film as a bionanocomposite plasmonic sensor and thereof for optical sensing of cyanide ion in water samples. <i>Cellulose</i> , <b>2019</b> , 26, 4945-4956	5.5	9
442	Excellent performance of electro-assisted catalytic wet air oxidation of refractory organic pollutants. <i>Water Research</i> , <b>2019</b> , 158, 313-321	12.5	26
441	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> , <b>2019</b> , 128, 77-88	12.9	48
440	N-doped graphitic biochars from C-phycoyanin extracted Spirulina residue for catalytic persulfate activation toward nonradical disinfection and organic oxidation. <i>Water Research</i> , <b>2019</b> , 159, 77-86	12.5	175
439	Cobalt@nitrogen-doped bamboo-structured carbon nanotube to boost photocatalytic hydrogen evolution on carbon nitride. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 254, 443-451	21.8	42
438	Efficient removal of organic pollutants by ceramic hollow fibre supported composite catalyst. <i>Sustainable Materials and Technologies</i> , <b>2019</b> , 20, e00108	5.3	12
437	Self-assembly of 3D MnO <sub>2</sub> /N-doped graphene hybrid aerogel for catalytic degradation of water pollutants: Structure-dependent activity. <i>Chemical Engineering Journal</i> , <b>2019</b> , 369, 1049-1058	14.7	53
436	Magnetic biochar catalysts from anaerobic digested sludge: Production, application and environment impact. <i>Environment International</i> , <b>2019</b> , 126, 302-308	12.9	51
435	Novel applications of perovskite oxide via catalytic peroxymonosulfate advanced oxidation in aqueous systems for trace L-cysteine detection. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 545, 311-318	9.3	10

434	Chemical activation of nitrogen and sulfur co-doped graphene as defect-rich carbocatalyst for electrochemical water splitting. <i>Carbon</i> , <b>2019</b> , 148, 540-549	10.4	34
433	Zn phthalocyanine/carbon nitride heterojunction for visible light photoelectrocatalytic conversion of CO <sub>2</sub> to methanol. <i>Journal of Catalysis</i> , <b>2019</b> , 371, 214-223	7.3	30
432	Design and engineering heterojunctions for the photoelectrochemical monitoring of environmental pollutants: A review. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 248, 405-422	21.8	85
431	Facile synthesis of Co-N-rGO composites as an excellent electrocatalyst for oxygen reduction reaction. <i>Chemical Engineering Science</i> , <b>2019</b> , 194, 45-53	4.4	19
430	Metal-free catalytic ozonation on surface-engineered graphene: Microwave reduction and heteroatom doping. <i>Chemical Engineering Journal</i> , <b>2019</b> , 355, 118-129	14.7	49
429	MXene as a non-metal charge mediator in 2D layered CdS@Ti <sub>3</sub> C <sub>2</sub> @TiO <sub>2</sub> composites with superior Z-scheme visible light-driven photocatalytic activity. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 3158-3169	7.1	55
428	Enhanced light-driven water splitting by fast electron transfer in 2D/2D reduced graphene oxide/tungsten trioxide heterojunction with preferential facets. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 555, 413-422	9.3	33
427	CeO <sub>2</sub> nanocrystal-modified layered MoS <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> as 0D/2D ternary composite for visible-light photocatalytic hydrogen evolution: Interfacial consecutive multi-step electron transfer and enhanced H <sub>2</sub> O reactant adsorption. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 259, 118072	21.8	97
426	Facile fabrication of 3D ferrous ion crosslinked graphene oxide hydrogel membranes for excellent water purification. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 3060-3071	7.1	12
425	Synthesis of magnetically separable Fe <sub>3</sub> O <sub>4</sub> @Au@CdS kinked heterotrimers incorporating plasmonic and semiconducting functionalities. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 14517-14524	7.1	8
424	Quadruple hydrogen bonded hyperbranched supramolecular polymers with aggregation-induced emission for artificial light-harvesting. <i>Dyes and Pigments</i> , <b>2019</b> , 171, 107774	4.6	2
423	Boosting Fenton-Like Reactions via Single Atom Fe Catalysis. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 11391-11400	10.3	105
422	Photocatalytic conversion of lignocellulosic biomass to valuable products. <i>Green Chemistry</i> , <b>2019</b> , 21, 4266-4289	10	93
421	sp <sup>2</sup> /sp <sup>3</sup> Framework from Diamond Nanocrystals: A Key Bridge of Carbonaceous Structure to Carbocatalysis. <i>ACS Catalysis</i> , <b>2019</b> , 9, 7494-7519	13.1	50
420	Phosphorous doped carbon nitride nanobelts for photodegradation of emerging contaminants and hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 257, 117931	21.8	105
419	Room-temperature air oxidation of organic pollutants via electrocatalysis by nanoscaled Co-CoO on graphite felt anode. <i>Environment International</i> , <b>2019</b> , 131, 104977	12.9	12
418	Photocatalytic reforming of biomass for hydrogen production over ZnS nanoparticles modified carbon nitride nanosheets. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 555, 22-30	9.3	14
417	Degradation of Cosmetic Microplastics via Functionalized Carbon Nanosprings. <i>Matter</i> , <b>2019</b> , 1, 745-758	12.7	140

4 <sup>16</sup>	Role of electronic properties in partition of radical and nonradical processes of carbocatalysis toward peroxymonosulfate activation. <i>Carbon</i> , <b>2019</b> , 153, 73-80	10.4	47
4 <sup>15</sup>	Metal-free catalysts of graphitic carbon nitride-covalent organic frameworks for efficient pollutant destruction in water. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 554, 376-387	9.3	33
4 <sup>14</sup>	A general strategy for in-situ fabrication of uniform carbon nanotubes on three-dimensional carbon architectures for electrochemical application. <i>Applied Surface Science</i> , <b>2019</b> , 496, 143704	6.7	9
4 <sup>13</sup>	Graphitic Carbon Nitride Decorated with CoP Nanocrystals for Enhanced Photocatalytic and Photoelectrochemical H <sub>2</sub> Evolution. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 11663-11676	4.1	23
4 <sup>12</sup>	Activation of Peroxydisulfate on Carbon Nanotubes: Electron-Transfer Mechanism. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 14595-14603	10.3	203
4 <sup>11</sup>	Physical and Chemical Characteristics of Feed Coal and its by-products from a Brazilian Thermoelectric Power Plant. <i>Journal of Applied Materials and Technology</i> , <b>2019</b> , 1, 1-14	0.3	2
4 <sup>10</sup>	Photocatalytic Fixation of Nitrogen to Ammonia by Single Ru Atom Decorated TiO <sub>2</sub> Nanosheets. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 6813-6820	8.3	85
4 <sup>09</sup>	Adsorption of phenolic contaminants from water on activated carbon: An insight into single and multicomponent adsorption isotherms. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2019</b> , 14, e2372	1.3	2
4 <sup>08</sup>	Boosting performance of lanthanide magnetism perovskite for advanced oxidation through lattice doping with catalytically inert element. <i>Chemical Engineering Journal</i> , <b>2019</b> , 355, 721-730	14.7	78
4 <sup>07</sup>	Fabrication of PVDF hollow fiber membranes via integrated phase separation for membrane distillation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2019</b> , 95, 487-494	5.3	19
4 <sup>06</sup>	Hierarchical MoS <sub>2</sub> nanosheets integrated Ti <sub>3</sub> C <sub>2</sub> MXenes for electrocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 965-976	6.7	76
4 <sup>05</sup>	Facile synthesis of N-doped 3D graphene aerogel and its excellent performance in catalytic degradation of antibiotic contaminants in water. <i>Carbon</i> , <b>2019</b> , 144, 781-790	10.4	79
4 <sup>04</sup>	Enhanced solar light driven activity of p-n heterojunction for water oxidation induced by deposition of Cu <sub>2</sub> O on Bi <sub>2</sub> O <sub>3</sub> microplates. <i>Sustainable Materials and Technologies</i> , <b>2019</b> , 19, e00088	5.3	4
4 <sup>03</sup>	Persulfate Activation on Crystallographic Manganese Oxides: Mechanism of Singlet Oxygen Evolution for Nonradical Selective Degradation of Aqueous Contaminants. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 307-315	10.3	408
4 <sup>02</sup>	Acetone adsorption to (BeO) <sub>12</sub> , (MgO) <sub>12</sub> and (ZnO) <sub>12</sub> nanoparticles and their graphene composites: A density functional theory (DFT) study. <i>Applied Surface Science</i> , <b>2019</b> , 469, 962-973	6.7	37
4 <sup>01</sup>	Magnetic natural composite FeO-chitosan@bentonite for removal of heavy metals from acid mine drainage. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 538, 132-141	9.3	75
4 <sup>00</sup>	Magnetic Ni-Co alloy encapsulated N-doped carbon nanotubes for catalytic membrane degradation of emerging contaminants. <i>Chemical Engineering Journal</i> , <b>2019</b> , 362, 251-261	14.7	89
399	Heterogeneous activation of peroxymonosulfate via a Ag-La <sub>0.8</sub> Ca <sub>0.2</sub> Fe <sub>0.94</sub> O <sub>3</sub> perovskite hollow fibre membrane reactor for dye degradation. <i>Separation and Purification Technology</i> , <b>2019</b> , 211, 298-302	8.3	21

398	Z-scheme plasmonic Ag decorated WO <sub>3</sub> /Bi <sub>2</sub> WO <sub>6</sub> hybrids for enhanced photocatalytic abatement of chlorinated-VOCs under solar light irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 242, 76-84	21.8	179
397	Nitrogen-doped graphene quantum dots decorated graphite foam as ultra-high active free-standing electrode for electrochemical hydrogen evolution and phenol degradation. <i>Chemical Engineering Science</i> , <b>2019</b> , 194, 54-57	4.4	26
396	Multimetal organic frameworks as drug carriers: aceclofenac as a drug candidate. <i>Drug Design, Development and Therapy</i> , <b>2019</b> , 13, 23-35	4.4	14
395	Modelling of dye adsorption from aqueous solution on polyaniline/carboxymethyl cellulose/TiO <sub>2</sub> nanocomposites. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 519, 154-173	9.3	74
394	Worm-like FeS <sub>2</sub> /TiO <sub>2</sub> Nanotubes for Photoelectrocatalytic Reduction of CO <sub>2</sub> to Methanol under Visible Light. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 4357-4363	4.1	27
393	Heterostructured WO <sub>3</sub> @CoWO <sub>4</sub> bilayer nanosheets for enhanced visible-light photo, electro and photoelectro-chemical oxidation of water. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 6265-6272	13	50
392	Metal-Free Carbocatalysis in Advanced Oxidation Reactions. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 678-687	24.3	573
391	NiO encapsulated in N-doped carbon nanotubes for catalytic reduction of highly toxic hexavalent chromium. <i>Applied Surface Science</i> , <b>2018</b> , 440, 421-431	6.7	30
390	One-step synthesis of flour-derived functional nanocarbons with hierarchical pores for versatile environmental applications. <i>Chemical Engineering Journal</i> , <b>2018</b> , 347, 432-439	14.7	42
389	Biodegradable Carrageenan/nanoclay nanocomposite films containing Rosmarinus officinalis L. extract for improved strength and antibacterial performance. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 115, 227-235	7.9	47
388	0D (MoS <sub>2</sub> )/2D (g-C <sub>3</sub> N <sub>4</sub> ) heterojunctions in Z-scheme for enhanced photocatalytic and electrochemical hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 228, 64-74	21.8	220
387	Nanostructured Co-Mn containing perovskites for degradation of pollutants: Insight into the activity and stability. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 349, 177-185	12.8	66
386	Carbon-coated three-dimensional WS <sub>2</sub> film consisting of WO <sub>3</sub> @WS <sub>2</sub> core-shell blocks and layered WS <sub>2</sub> nanostructures as counter electrodes for efficient dye-sensitized solar cells. <i>Electrochimica Acta</i> , <b>2018</b> , 266, 130-138	6.7	10
385	Cascade applications of robust MIL-96 metal organic frameworks in environmental remediation: Proof of concept. <i>Chemical Engineering Journal</i> , <b>2018</b> , 341, 262-271	14.7	17
384	Identification and Regulation of Active Sites on Nanodiamonds: Establishing a Highly Efficient Catalytic System for Oxidation of Organic Contaminants. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705295	15.6	238
383	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> , <b>2018</b> , 229, 71-80	21.8	77
382	Enhanced CO <sub>2</sub> Adsorption and Selectivity of CO <sub>2</sub> /N <sub>2</sub> on Amino-MIL-53(Al) Synthesized by Polar Co-solvents. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 4502-4510	4.1	25
381	Crystal transformation of 2D tungstic acid HWO to WO for enhanced photocatalytic water oxidation. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 514, 576-583	9.3	33

380	Highly Defective Layered Double Perovskite Oxide for Efficient Energy Storage via Reversible Pseudocapacitive Oxygen-Anion Intercalation. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702604	21.8	76
379	Application of Al <sub>2</sub> O <sub>3</sub> modified sulfate tailings (CaFe-Cake and SuFe) for efficient removal of cyanide ions from mine process water. <i>Minerals Engineering</i> , <b>2018</b> , 118, 24-32	4.9	6
378	Submicron sized water-stable metal organic framework (bio-MOF-11) for catalytic degradation of pharmaceuticals and personal care products. <i>Chemosphere</i> , <b>2018</b> , 196, 105-114	8.4	70
377	Atomic-level design of CoOH-hydroxyapatite@C catalysts for superfast degradation of organics via peroxymonosulfate activation. <i>Chemical Communications</i> , <b>2018</b> , 54, 4919-4922	5.8	18
376	Pt-Free microengines at extremely low peroxide levels. <i>Chemical Communications</i> , <b>2018</b> , 54, 4653-4656	5.8	19
375	Removal of monoethylene glycol from wastewater by using Zr-metal organic frameworks. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 523, 75-85	9.3	16
374	Co@C/CoO <sub>x</sub> coupled with N-doped layer-structured carbons for excellent CO <sub>2</sub> capture and oxygen reduction reaction. <i>Carbon</i> , <b>2018</b> , 133, 306-315	10.4	25
373	Nitrogen-doped carbon encapsulating molybdenum carbide and nickel nanostructures loaded with PVDF membrane for hexavalent chromium reduction. <i>Chemical Engineering Journal</i> , <b>2018</b> , 344, 535-544	14.7	29
372	Effects of -NO <sub>2</sub> and -NH <sub>2</sub> functional groups in mixed-linker Zr-based MOFs on gas adsorption of CO <sub>2</sub> and CH <sub>4</sub> . <i>Progress in Natural Science: Materials International</i> , <b>2018</b> , 28, 160-167	3.6	42
371	Ag <sub>2</sub> MoO <sub>4</sub> nanoparticles encapsulated in g-C <sub>3</sub> N <sub>4</sub> for sunlight photodegradation of pollutants. <i>Catalysis Today</i> , <b>2018</b> , 315, 205-212	5.3	44
370	Potentially useful elements (Al, Fe, Ga, Ge, U) in coal gangue: a case study in Weibei coal mining area, Shaanxi Province, northwestern China. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 11893-11904	5.1	54
369	Exfoliated MoS <sub>2</sub> with porous graphene nanosheets for enhanced electrochemical hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 13946-13952	6.7	33
368	Metal-free activation of persulfate by cubic mesoporous carbons for catalytic oxidation via radical and nonradical processes. <i>Catalysis Today</i> , <b>2018</b> , 307, 140-146	5.3	91
367	Monodisperse Co <sub>3</sub> O <sub>4</sub> quantum dots on porous carbon nitride nanosheets for enhanced visible-light-driven water oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 223, 2-9	21.8	97
366	Polydopamine-assisted decoration of TiO <sub>2</sub> nanotube arrays with enzyme to construct a novel photoelectrochemical sensing platform. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 255, 133-139	8.5	43
365	Wettability of nanofluid-modified oil-wet calcite at reservoir conditions. <i>Fuel</i> , <b>2018</b> , 211, 405-414	7.1	77
364	Nanodiamonds in sp <sup>2</sup> /sp <sup>3</sup> configuration for radical to nonradical oxidation: Core-shell layer dependence. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 222, 176-181	21.8	157
363	Perovskite hollow fiber membranes supported in a porous and catalytically active perovskite matrix for air separation. <i>Separation and Purification Technology</i> , <b>2018</b> , 192, 435-440	8.3	9

362	Insights into perovskite-catalyzed peroxymonosulfate activation: Maneuverable cobalt sites for promoted evolution of sulfate radicals. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 220, 626-634	21.8	274
361	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> , <b>2018</b> , 332, 398-408	14.7	141
360	CuInS <sub>2</sub> quantum dots embedded in Bi <sub>2</sub> WO <sub>6</sub> nanoflowers for enhanced visible light photocatalytic removal of contaminants. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 221, 215-222	21.8	133
359	Temperature dependent photocatalysis of g-CN, TiO and ZnO: Differences in photoactive mechanism. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 532, 321-330	9.3	40
358	Spontaneous Formation of Noble- and Heavy-Metal-Free Alloyed Semiconductor Quantum Rods for Efficient Photocatalysis. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803351	24	38
357	Hierarchically porous cobalt-carbon nanosphere-in-microsphere composites with tunable properties for catalytic pollutant degradation and electrochemical energy storage. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 530, 556-566	9.3	15
356	Catalytic Removal of Aqueous Contaminants on N-Doped Graphitic Biochars: Inherent Roles of Adsorption and Nonradical Mechanisms. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 8649-8658	10.3	460
355	Synthesis of nitrogen and sulfur co-doped reduced graphene oxide as efficient metal-free cocatalyst for the photo-activity enhancement of CdS. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 236, 212-221	21.8	57
354	Degradation of aniline by electrochemical activation of peroxydisulfate at MWCNT cathode: The proofed concept of nonradical oxidation process. <i>Chemosphere</i> , <b>2018</b> , 206, 432-438	8.4	48
353	Flower-like MoS <sub>2</sub> on graphitic carbon nitride for enhanced photocatalytic and electrochemical hydrogen evolutions. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 239, 334-344	21.8	100
352	Magnetic nitrogen-doped nanocarbons for enhanced metal-free catalytic oxidation: Integrated experimental and theoretical investigations for mechanism and application. <i>Chemical Engineering Journal</i> , <b>2018</b> , 354, 507-516	14.7	102
351	Activation of persulfates by catalytic nickel nanoparticles supported on N-doped carbon nanofibers for degradation of organic pollutants in water. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 529, 100-110	9.3	37
350	Design of metallic nickel hollow fiber membrane modules for pure hydrogen separation. <i>AIChE Journal</i> , <b>2018</b> , 64, 3662-3670	3.6	8
349	Life expectancy impacts due to heating energy utilization in China: Distribution, relations, and policy implications. <i>Science of the Total Environment</i> , <b>2018</b> , 610-611, 1047-1056	10.2	27
348	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> , <b>2018</b> , 225, 76-83	21.8	141
347	Nonradical reactions in environmental remediation processes: Uncertainty and challenges. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 224, 973-982	21.8	397
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343	Quasi single cobalt sites in nanopores for superior catalytic oxidation of organic pollutants. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 2842-2852	7.1	30
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341	Temperature-dependent evolution of hydroxyl radicals from peroxymonosulfate activation over nitrogen-modified carbon nanotubes. <i>Sustainable Materials and Technologies</i> , <b>2018</b> , 18, e00082	5.3	7
340	Postsynthesis Growth of CoOOH Nanostructure on SrCo <sub>0.6</sub> Ti <sub>0.4</sub> O <sub>3</sub> Perovskite Surface for Enhanced Degradation of Aqueous Organic Contaminants. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 15737-15748	8.3	43
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338	A comparative study of metal (Ni, Co, or Mn)-borate catalysts and their photodeposition on rGO/ZnO nanoarrays for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 24149-24156	13	27
337	High-speed graphene@Ag-MnO micromotors at low peroxide levels. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 528, 271-280	9.3	36
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335	Efficient removal of organic and bacterial pollutants by Ag-LaCaFeO perovskite via catalytic peroxymonosulfate activation. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 356, 53-60	12.8	48
334	Co <sub>3</sub> O <sub>4</sub> quantum dots/TiO <sub>2</sub> nanobelt hybrids for highly efficient photocatalytic overall water splitting. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 236, 396-403	21.8	141
333	Dual-metal zeolitic imidazolate frameworks and their derived nanoporous carbons for multiple environmental and electrochemical applications. <i>Chemical Engineering Journal</i> , <b>2018</b> , 351, 641-649	14.7	30
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331	CO <sub>2</sub> erosion of BaCo <sub>0.85</sub> Bi <sub>0.05</sub> Zr <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> perovskite membranes under oxygen permeating conditions. <i>Separation and Purification Technology</i> , <b>2018</b> , 207, 133-141	8.3	16
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329	A review on photocatalysis for air treatment: From catalyst development to reactor design. <i>Chemical Engineering Journal</i> , <b>2017</b> , 310, 537-559	14.7	335
328	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> , <b>2017</b> , 115, 649-658	10.4	209
327	Metal-free hybrids of graphitic carbon nitride and nanodiamonds for photoelectrochemical and photocatalytic applications. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 493, 275-280	9.3	28



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324	Preparation and characterization of activated carbons from tobacco stem by chemical activation. <i>Journal of the Air and Waste Management Association</i> , <b>2017</b> , 67, 713-724	2.4	79
323	Iron encapsulated in 3D N-doped carbon nanotube/porous carbon hybrid from waste biomass for enhanced oxidative activity. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 7679-7692	5.1	21
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224	A new magnetic nano zero-valent iron encapsulated in carbon spheres for oxidative degradation of phenol. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 172-173, 73-81	21.8	198
223	Metal-free graphene-carbon nitride hybrids for photodegradation of organic pollutants in water. <i>Catalysis Today</i> , <b>2015</b> , 258, 668-675	5.3	58
222	Bifunctionalized Metal Organic Frameworks, UiO-66-NO <sub>2</sub> -N (N = -NH <sub>2</sub> , -(OH) <sub>2</sub> , -(COOH) <sub>2</sub> ), for Enhanced Adsorption and Selectivity of CO <sub>2</sub> and N <sub>2</sub> . <i>Journal of Chemical &amp; Engineering Data</i> , <b>2015</b> , 60, 2152-2161	2.8	49
221	Fe@Ag nanoparticles decorated reduced graphene oxide as ultrahigh capacity anode material for lithium-ion battery. <i>Ionics</i> , <b>2015</b> , 21, 3185-3192	2.7	59
220	Sensitive and selective determination of aqueous triclosan based on gold nanoparticles on polyoxometalate/reduced graphene oxide nanohybrid. <i>RSC Advances</i> , <b>2015</b> , 5, 65953-65962	3.7	150
219	Nanocarbons in different structural dimensions (0BD) for phenol adsorption and metal-free catalytic oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 179, 352-362	21.8	220

218	Insight into the mechanism of photocatalytic degradation of gaseous o-dichlorobenzene over flower-type V <sub>2</sub> O <sub>5</sub> hollow spheres. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 15163-15170	13	57
217	Insights into Heterogeneous Catalysis of Persulfate Activation on Dimensional-Structured Nanocarbons. <i>ACS Catalysis</i> , <b>2015</b> , 5, 4629-4636	13.1	450
216	Sulfate radicals induced from peroxymonosulfate by cobalt manganese oxides (Co(x)Mn(3-x)O <sub>4</sub> ) for Fenton-Like reaction in water. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 296, 128-137	12.8	266
215	Magnetic core-shell CuFe <sub>2</sub> O <sub>4</sub> @C <sub>3</sub> N <sub>4</sub> hybrids for visible light photocatalysis of Orange II. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 297, 224-33	12.8	249
214	An experimental and simulation study of binary adsorption in metal-organic frameworks. <i>Separation and Purification Technology</i> , <b>2015</b> , 146, 136-142	8.3	5
213	Acid mine drainage (AMD) treatment: Neutralization and toxic elements removal with unmodified and modified limestone. <i>Ecological Engineering</i> , <b>2015</b> , 81, 30-40	3.9	69
212	Sulfur and Nitrogen Co-Doped Graphene for Metal-Free Catalytic Oxidation Reactions. <i>Small</i> , <b>2015</b> , 11, 3036-44	11	412
211	A sensitive molecular imprinted surface plasmon resonance nanosensor for selective determination of trace triclosan in wastewater. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 216, 638-644	8.5	72
210	Economic level and human longevity: Spatial and temporal variations and correlation analysis of per capita GDP and longevity indicators in China. <i>Archives of Gerontology and Geriatrics</i> , <b>2015</b> , 61, 93-102	4	24
209	Green Synthesis of Carbon- and Silver-Modified Hierarchical ZnO with Excellent Solar Light Driven Photocatalytic Performance. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 1010-1016	8.3	25
208	Synthesis and characterization of three amino-functionalized metal-organic frameworks based on the 2-aminoterephthalic ligand. <i>Dalton Transactions</i> , <b>2015</b> , 44, 8190-7	4.3	50
207	Carbon microspheres supported cobalt catalysts for phenol oxidation with peroxymonosulfate. <i>Chemical Engineering Research and Design</i> , <b>2015</b> , 101, 15-21	5.5	34
206	Insights into N-doping in single-walled carbon nanotubes for enhanced activation of superoxides: a mechanistic study. <i>Chemical Communications</i> , <b>2015</b> , 51, 15249-52	5.8	195
205	Effects of anti-scaling and cleaning chemicals on membrane scale in direct contact membrane distillation process for RO brine concentrate. <i>Separation and Purification Technology</i> , <b>2015</b> , 154, 22-26	8.3	39
204	Effects of amino functionality on uptake of CO <sub>2</sub> , CH <sub>4</sub> and selectivity of CO <sub>2</sub> /CH <sub>4</sub> on titanium based MOFs. <i>Fuel</i> , <b>2015</b> , 160, 318-327	7.1	67
203	Structural sensitivity of mesoporous alumina for copper catalyst loading used for NO reduction in presence of CO. <i>Chemical Engineering Research and Design</i> , <b>2015</b> , 101, 27-43	5.5	20
202	N-Doping-Induced Nonradical Reaction on Single-Walled Carbon Nanotubes for Catalytic Phenol Oxidation. <i>ACS Catalysis</i> , <b>2015</b> , 5, 553-559	13.1	525
201	Multi-fluid reactive modeling of fluidized bed pyrolysis process. <i>Chemical Engineering Science</i> , <b>2015</b> , 123, 311-321	4.4	48

200	Effects of nitrogen-, boron-, and phosphorus-doping or codoping on metal-free graphene catalysis. <i>Catalysis Today</i> , <b>2015</b> , 249, 184-191	5.3	123
199	3D-hierarchically structured MnO <sub>2</sub> for catalytic oxidation of phenol solutions by activation of peroxymonosulfate: Structure dependence and mechanism. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 164, 159-167	21.8	274
198	Spatio-temporal distribution of human lifespan in China. <i>Scientific Reports</i> , <b>2015</b> , 5, 13844	4.9	21
197	Novel polyoxometalate@g-C <sub>3</sub> N <sub>4</sub> hybrid photocatalysts for degradation of dyes and phenolics. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 456, 15-21	9.3	63
196	Photochemical degradation of phenol solutions on Co <sub>3</sub> O <sub>4</sub> nanorods with sulfate radicals. <i>Catalysis Today</i> , <b>2015</b> , 258, 576-584	5.3	64
195	One-pot approach for synthesis of N-doped TiO <sub>2</sub> /ZnFe <sub>2</sub> O <sub>4</sub> hybrid as an efficient photocatalyst for degradation of aqueous organic pollutants. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 291, 28-37	12.8	150
194	Low temperature combustion synthesis of nitrogen-doped graphene for metal-free catalytic oxidation. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 3432-3440	13	156
193	Nitrogen-doped graphene for generation and evolution of reactive radicals by metal-free catalysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 4169-78	9.5	471
192	New insights into heterogeneous generation and evolution processes of sulfate radicals for phenol degradation over one-dimensional MnO <sub>2</sub> nanostructures. <i>Chemical Engineering Journal</i> , <b>2015</b> , 266, 12-20	14.7	165
191	Facile synthesis of magnetic ZnFe <sub>2</sub> O <sub>4</sub> -reduced graphene oxide hybrid and its photo-Fenton-like behavior under visible irradiation. <i>Environmental Science and Pollution Research</i> , <b>2014</b> , 21, 7296-306	5.1	83
190	Catalytic oxidation of organic pollutants on pristine and surface nitrogen-modified carbon nanotubes with sulfate radicals. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 154-155, 134-141	21.8	333
189	Magnetic Fe <sub>3</sub> O <sub>4</sub> /carbon sphere/cobalt composites for catalytic oxidation of phenol solutions with sulfate radicals. <i>Chemical Engineering Journal</i> , <b>2014</b> , 245, 1-9	14.7	133
188	Shape-controlled activation of peroxymonosulfate by single crystal Mn <sub>2</sub> O <sub>3</sub> for catalytic phenol degradation in aqueous solution. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 154-155, 246-251	21.8	157
187	Physical and chemical activation of reduced graphene oxide for enhanced adsorption and catalytic oxidation. <i>Nanoscale</i> , <b>2014</b> , 6, 766-71	7.7	129
186	A phenomenological model of the mechanisms of lignocellulosic biomass pyrolysis processes. <i>Computers and Chemical Engineering</i> , <b>2014</b> , 60, 231-241	4	30
185	Magnetic recoverable MnFe <sub>2</sub> O <sub>4</sub> and MnFe <sub>2</sub> O <sub>4</sub> /graphene hybrid as heterogeneous catalysts of peroxymonosulfate activation for efficient degradation of aqueous organic pollutants. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 270, 61-70	12.8	362
184	Adsorptive and photocatalytic removal of reactive dyes by silver nanoparticle-colemanite ore waste. <i>Chemical Engineering Journal</i> , <b>2014</b> , 242, 333-340	14.7	117
183	Facile synthesis of hierarchically structured magnetic MnO <sub>2</sub> /ZnFe <sub>2</sub> O <sub>4</sub> hybrid materials and their performance in heterogeneous activation of peroxymonosulfate. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 19914-23	9.5	132



182	Magnetic ZnFe <sub>2</sub> O <sub>4</sub> @CN <sub>4</sub> Hybrid for Photocatalytic Degradation of Aqueous Organic Pollutants by Visible Light. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 17294-17302	3.9	177
181	A new metal-free carbon hybrid for enhanced photocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 16745-54	9.5	144
180	Facile synthesis of carbon-doped mesoporous anatase TiO <sub>2</sub> for the enhanced visible-light driven photocatalysis. <i>Chemical Communications</i> , <b>2014</b> , 50, 13971-4	5.8	128
179	Synthesis of magnetic core/shell carbon nanosphere supported manganese catalysts for oxidation of organics in water by peroxymonosulfate. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 433, 68-75	9.3	54
178	Less is more, greener microbial synthesis of silver nanoparticles. <i>Enzyme and Microbial Technology</i> , <b>2014</b> , 67, 53-8	3.8	28
177	CFD modeling of mixing/segregation behavior of biomass and biochar particles in a bubbling fluidized bed. <i>Chemical Engineering Science</i> , <b>2014</b> , 106, 264-274	4.4	37
176	Combined Spectroscopic and Theoretical Approach to Sulfur-Poisoning on Cu-Supported TiZr Mixed Oxide Catalyst in the Selective Catalytic Reduction of NO <sub>x</sub> . <i>ACS Catalysis</i> , <b>2014</b> , 4, 2426-2436	13.1	33
175	A comparative study of reduced graphene oxide modified TiO <sub>2</sub> , ZnO and Ta <sub>2</sub> O <sub>5</sub> in visible light photocatalytic/photochemical oxidation of methylene blue. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 146, 162-168	21.8	160
174	CO <sub>2</sub> -Tolerant Ceramic Membrane Driven by Electrical Current for Oxygen Production at Intermediate Temperatures. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 120-126	3.8	12
173	Regional distribution of longevity population and chemical characteristics of natural water in Xinjiang, China. <i>Science of the Total Environment</i> , <b>2014</b> , 473-474, 54-62	10.2	34
172	External short circuit-assisted proton conducting ceramic membrane for H <sub>2</sub> permeation. <i>Ceramics International</i> , <b>2014</b> , 40, 791-797	5.1	15
171	Membrane fouling and wetting in a DCMD process for RO brine concentration. <i>Desalination</i> , <b>2014</b> , 344, 97-107	10.3	97
170	Preparation and characterization of hydrophobic PVDF membranes by vapor-induced phase separation and application in vacuum membrane distillation. <i>Journal of Polymer Research</i> , <b>2013</b> , 20, 1	2.7	56
169	Characterizing the interaction between oridonin and bovine serum albumin by a hybrid spectroscopic approach. <i>Journal of Luminescence</i> , <b>2013</b> , 134, 863-869	3.8	17
168	Co <sub>3</sub> O <sub>4</sub> nanocrystals with predominantly exposed facets: synthesis, environmental and energy applications. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 14427	13	128
167	Manganese oxides at different oxidation states for heterogeneous activation of peroxymonosulfate for phenol degradation in aqueous solutions. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 142-143, 729-735	21.8	308
166	One-pot hydrothermal synthesis of Co(OH) <sub>2</sub> nanoflakes on graphene sheets and their fast catalytic oxidation of phenol in liquid phase. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 402, 230-6	9.3	33
165	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> , <b>2013</b> , 1, 5854	13	164

164	Synthesis of Magnetic Cobalt Nanoparticles Anchored on Graphene Nanosheets and Catalytic Decomposition of Orange II. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 17341-17350	3.9	120
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162	A comparative study of spinel structured Mn <sub>3</sub> O <sub>4</sub> , Co <sub>3</sub> O <sub>4</sub> and Fe <sub>3</sub> O <sub>4</sub> nanoparticles in catalytic oxidation of phenolic contaminants in aqueous solutions. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 407, 467-73	9.3	143
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159	Graphene facilitated visible light photodegradation of methylene blue over titanium dioxide photocatalysts. <i>Chemical Engineering Journal</i> , <b>2013</b> , 214, 298-303	14.7	160
158	Batch and column studies of phosphate and nitrate adsorption on waste solids containing boron impurity. <i>Chemical Engineering Journal</i> , <b>2013</b> , 222, 108-119	14.7	113
157	Visible light responsive titania photocatalysts codoped by nitrogen and metal (Fe, Ni, Ag, or Pt) for remediation of aqueous pollutants. <i>Chemical Engineering Journal</i> , <b>2013</b> , 231, 18-25	14.7	77
156	Different crystallographic one-dimensional MnO <sub>2</sub> nanomaterials and their superior performance in catalytic phenol degradation. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 5882-7	10.3	335
155	Supported cobalt catalysts by one-pot aqueous combustion synthesis for catalytic phenol degradation. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 394, 394-400	9.3	51
154	Facile Synthesis of Mn <sub>3</sub> O <sub>4</sub> /Reduced Graphene Oxide Hybrids for Catalytic Decomposition of Aqueous Organics. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 3637-3645	3.9	142
153	Comparative Investigation of Photocatalytic Degradation of Toluene on Nitrogen Doped Ta <sub>2</sub> O <sub>5</sub> and Nb <sub>2</sub> O <sub>5</sub> Nanoparticles. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 3320-3328	3.9	26
152	One-pot hydrothermal synthesis of ZnO-reduced graphene oxide composites using Zn powders for enhanced photocatalysis. <i>Chemical Engineering Journal</i> , <b>2013</b> , 229, 533-539	14.7	119
151	Adsorptive remediation of environmental pollutants using novel graphene-based nanomaterials. <i>Chemical Engineering Journal</i> , <b>2013</b> , 226, 336-347	14.7	508
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144	Solution combustion synthesis of Co oxide-based catalysts for phenol degradation in aqueous solution. <i>Journal of Colloid and Interface Science</i> , <b>2012</b> , 372, 58-62	9.3	38
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142	Visible light photocatalytic degradation of organics on nanoparticles of bi-metallic oxides. <i>Separation and Purification Technology</i> , <b>2012</b> , 89, 98-106	8.3	17
141	Heterogeneous activation of peroxymonosulphate by supported ruthenium catalysts for phenol degradation in water. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 215-216, 183-90	12.8	49
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129	Heterogeneous Catalytic Oxidation of Aqueous Phenol on Red Mud-Supported Cobalt Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 15351-15359	3.9	40

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127	Wet-Chemical Synthesis of InTaO <sub>4</sub> for Photocatalytic Decomposition of Organic Contaminants in Air and Water with UV-vis Light. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 1563-1569	3.9	23
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113	Synthesis of Co oxide doped carbon aerogel catalyst and catalytic performance in heterogeneous oxidation of phenol in water. <i>Chemical Engineering Journal</i> , <b>2011</b> , 174, 376-382	14.7	84
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101	Adsorption of anionic dyes in aqueous solution using chemically modified barley straw. <i>Water Science and Technology</i> , <b>2010</b> , 62, 1177-82	2.2	56
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77	Catalytic combustion of methane over cobalt doped lanthanum stannate pyrochlore oxide. <i>Catalysis Communications</i> , <b>2008</b> , 9, 690-695	3.2	26
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67	Characteristics of coal fly ash and adsorption application. <i>Fuel</i> , <b>2008</b> , 87, 3469-3473	7.1	102
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61	Humic acid adsorption on fly ash and its derived unburned carbon. <i>Journal of Colloid and Interface Science</i> , <b>2007</b> , 315, 41-6	9.3	84
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58	Effect of chemical treatment on ni/fly-ash catalysts in methane reforming with carbon dioxide. <i>Studies in Surface Science and Catalysis</i> , <b>2007</b> , 167, 275-280	1.8	21
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54	Structure directed reversible adsorption of organic dye on mesoporous silica in aqueous solution. <i>Microporous and Mesoporous Materials</i> , <b>2006</b> , 97, 21-26	5.3	104
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52	Geopolymeric adsorbents from fly ash for dye removal from aqueous solution. <i>Journal of Colloid and Interface Science</i> , <b>2006</b> , 300, 52-9	9.3	195
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45	Sonochemical treatment of fly ash for dye removal from wastewater. <i>Journal of Hazardous Materials</i> , <b>2005</b> , 126, 91-5	12.8	63
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33	Oxidative Dehydro-Isomerization of n-Butane over Anion-Promoted Cr <sub>2</sub> O <sub>3</sub> /ZrO <sub>2</sub> Catalysts. <i>Energy &amp; Fuels</i> , <b>2001</b> , 15, 384-388	4.1	9
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