Xie Quan

List of Publications by Citations

575	30,084	90	136
papers	citations	h-index	g-index
582	34,723	8.8	7.74
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
575	Graphene oxide modified g-C3N4 hybrid with enhanced photocatalytic capability under visible light irradiation. *Journal of Materials Chemistry*, **2012**, 22, 2721-2726		619
574	Preparation of titania nanotubes and their environmental applications as electrode. *Environmental Science & Technology*, **2005**, 39, 3770-5	10.3	396
573	Facile Ammonia Synthesis from Electrocatalytic N2 Reduction under Ambient Conditions on N-Doped Porous Carbon. *ACS Catalysis*, **2018**, 8, 1186-1191	13.1	392
572	Enhanced anaerobic digestion of waste activated sludge digestion by the addition of zero valent iron. *Water Research*, **2014**, 52, 242-50	12.5	383
571	Graphene sheets grafted Ag@AgCl hybrid with enhanced plasmonic photocatalytic activity under visible light. *Environmental Science & Technology*, **2011**, 45, 5731-6	10.3	377
570	Efficient Electrochemical Reduction of Carbon Dioxide to Acetate on Nitrogen-Doped Nanodiamond. *Journal of the American Chemical Society*, **2015**, 137, 11631-6	16.4	339
569	Fabrication of atomic single layer graphitic-C3N4 and its high performance of photocatalytic disinfection under visible light irradiation. *Applied Catalysis B: Environmental*, **2014**, 152-153, 46-50	21.8	319
568	High-yield electrosynthesis of hydrogen peroxide from oxygen reduction by hierarchically porous carbon. *Angewandte Chemie - International Edition*, **2015**, 54, 6837-41	16.4	287
567	Electrochemical Method for Synthesis of a ZnFe2O4/TiO2 Composite Nanotube Array Modified Electrode with Enhanced Photoelectrochemical Activity. *Advanced Functional Materials*, **2010**, 20, 2165-2174	15.6	278
566	The Technology Horizon for Photocatalytic Water Treatment: Sunrise or Sunset?. *Environmental Science & Technology*, **2019**, 53, 2937-2947	10.3	277
565	Electron transfer mechanisms, new applications, and performance of biocathode microbial fuel cells. *Bioresource Technology*, **2011**, 102, 316-23	11	263
564	Uncovering the Key Role of the Fermi Level of the Electron Mediator in a Z-Scheme Photocatalyst by Detecting the Charge Transfer Process of WO3-metal-gC3N4 (Metal = Cu, Ag, Au). *ACS Applied Materials & Interfaces*, **2016**, 8, 2111-9	9.5	256
563	Controllable synthesis of ZnO nanoflowers and their morphology-dependent photocatalytic activities. *Separation and Purification Technology*, **2008**, 62, 727-732	8.3	248
562	Fabrication of Boron-Doped TiO2 Nanotube Array Electrode and Investigation of Its Photoelectrochemical Capability. *Journal of Physical Chemistry C*, **2007**, 111, 11836-11842	3.8	243
561	Enhanced activation of peroxymonosulfate by nitrogen doped porous carbon for effective removal of organic pollutants. *Carbon*, **2017**, 115, 730-739	10.4	234
560	Interface engineering catalytic graphene for smart colorimetric biosensing. *ACS Nano*, **2012**, 6, 3142-51	16.7	226
559	Photoeletrocatalytic activity of a Cu2O-loaded self-organized highly oriented TiO2 nanotube array electrode for 4-chlorophenol degradation. *Environmental Science & Technology*, **2009**, 43, 858-63	10.3	220

558	The role of lattice oxygen on the activity and selectivity of the OMS-2 catalyst for the total oxidation of toluene. *Chemical Engineering Journal*, **2015**, 270, 58-65	14.7	216
557	Enhanced oxidation of 4-chlorophenol using sulfate radicals generated from zero-valent iron and peroxydisulfate at ambient temperature. *Separation and Purification Technology*, **2010**, 71, 302-307	8.3	209
556	Integrating plasmonic nanoparticles with TiO photonic crystal for enhancement of visible-light-driven photocatalysis. *Environmental Science & Technology*, **2012**, 46, 1724-30	10.3	205
555	TiO2 Multiwalled Carbon Nanotube Heterojunction Arrays and Their Charge Separation Capability. *Journal of Physical Chemistry C*, **2007**, 111, 12987-12991	3.8	197
554	Towards engineering application: Potential mechanism for enhancing anaerobic digestion of complex organic waste with different types of conductive materials. *Water Research*, **2017**, 115, 266-277	12.5	182
553	Adding granular activated carbon into anaerobic sludge digestion to promote methane production and sludge decomposition. *Journal of Cleaner Production*, **2017**, 149, 1101-1108	10.3	180
552	High photocatalytic capability of self-assembled nanoporous WO3 with preferential orientation of (002) planes. *Environmental Science & Technology*, **2007**, 41, 4422-7	10.3	180
551	Communities stimulated with ethanol to perform direct interspecies electron transfer for syntrophic metabolism of propionate and butyrate. *Water Research*, **2016**, 102, 475-484	12.5	171
550	Photocatalytic oxidation of aqueous ammonia using atomic single layer graphitic-C3N4. *Environmental Science & Technology*, **2014**, 48, 11984-90	10.3	170
549	g-C3N4/TiO2 hybrid photocatalyst with wide absorption wavelength range and effective photogenerated charge separation. *Separation and Purification Technology*, **2012**, 99, 50-54	8.3	167
548	CO Electroreduction at Low Overpotential on Oxide-Derived Cu/Carbons Fabricated from Metal Organic Framework. *ACS Applied Materials & Interfaces*, **2017**, 9, 5302-5311	9.5	166
547	Selective Electrochemical Reduction of Carbon Dioxide to Ethanol on a Boron- and Nitrogen-Co-doped Nanodiamond. *Angewandte Chemie - International Edition*, **2017**, 56, 15607-15611	16.4	165
546	Enhanced Fenton-like catalysis by iron-based metal organic frameworks for degradation of organic pollutants. *Journal of Catalysis*, **2017**, 356, 125-132	7.3	163
545	Electrochemically assisted photocatalytic degradation of 4-chlorophenol by ZnFe2O4-modified TiO2 nanotube array electrode under visible light irradiation. *Environmental Science & Technology*, **2010**, 44, 5098-103	10.3	163
544	Two-dimensional MoS: A promising building block for biosensors. *Biosensors and Bioelectronics*, **2017**, 89, 56-71	11.8	161
543	Potentially shifting from interspecies hydrogen transfer to direct interspecies electron transfer for syntrophic metabolism to resist acidic impact with conductive carbon cloth. *Chemical Engineering Journal*, **2017**, 313, 10-18	14.7	160
542	Enhancement of Catalytic Activity Over the Iron-Modified Ce/TiO2 Catalyst for Selective Catalytic Reduction of NOx with Ammonia. *Journal of Physical Chemistry C*, **2012**, 116, 25319-25327	3.8	160
541	Integration of microfiltration and visible-light-driven photocatalysis on g-C 3 N 4 nanosheet/reduced graphene oxide membrane for enhanced water treatment. *Applied Catalysis B: Environmental*, **2016**, 194, 134-140	21.8	155

540	Optimization of anaerobic acidogenesis by adding Fe0 powder to enhance anaerobic wastewater treatment. *Chemical Engineering Journal*, **2012**, 192, 179-185	14.7	154
539	Enhanced production of methane from waste activated sludge by the combination of high-solid anaerobic digestion and microbial electrolysis cell with iron–graphite electrode. *Chemical Engineering Journal*, **2015**, 259, 787-794	14.7	153
538	Simultaneous pentachlorophenol decomposition and granular activated carbon regeneration assisted by microwave irradiation. *Carbon*, **2004**, 42, 415-422	10.4	153
537	Enhanced H2O2 production by selective electrochemical reduction of O2 on fluorine-doped hierarchically porous carbon. *Journal of Catalysis*, **2018**, 357, 118-126	7.3	152
536	An electrochemical sensor based on molecularly imprinted polypyrrole/graphene quantum dots composite for detection of bisphenol A in water samples. *Sensors and Actuators B: Chemical*, **2016**, 233, 599-606	8.5	146
535	Improved Photocatalytic Performance of Heterojunction by Controlling the Contact Facet: High Electron Transfer Capacity between TiO2 and the {110} Facet of BiVO4 Caused by Suitable Energy Band Alignment. *Advanced Functional Materials*, **2015**, 25, 3074-3080	15.6	139
534	Vertically Aligned Janus MXene-Based Aerogels for Solar Desalination with High Efficiency and Salt Resistance. *ACS Nano*, **2019**, 13, 13196-13207	16.7	138
533	A universal immunosensing strategy based on regulation of the interaction between graphene and graphene quantum dots. *Chemical Communications*, **2013**, 49, 234-6	5.8	137
532	High surface area mesoporous nanocast LaMO3 (M = Mn, Fe) perovskites for efficient catalytic ozonation and an insight into probable catalytic mechanism. *Applied Catalysis B: Environmental*, **2017**, 206, 692-703	21.8	136
531	Atomic single layer graphitic-C3N4: fabrication and its high photocatalytic performance under visible light irradiation. *RSC Advances*, **2014**, 4, 624-628	3.7	136
530	Efficient Mineralization of Perfluorooctanoate by Electro-Fenton with H2O2 Electro-generated on Hierarchically Porous Carbon. *Environmental Science & Technology*, **2015**, 49, 13528-33	10.3	132
529	Complexes of fulvic acid on the surface of hematite, goethite, and akaganeite: FTIR observation. *Chemosphere*, **2006**, 63, 403-10	8.4	126
528	Evaluation on direct interspecies electron transfer in anaerobic sludge digestion of microbial electrolysis cell. *Bioresource Technology*, **2016**, 200, 235-44	11	124
527	Adsorption of ionizable organic contaminants on multi-walled carbon nanotubes with different oxygen contents. *Journal of Hazardous Materials*, **2011**, 186, 407-15	12.8	124
526	Selective electroreduction of CO to acetone by single copper atoms anchored on N-doped porous carbon. *Nature Communications*, **2020**, 11, 2455	17.4	121
525	Enhanced adsorption of PFOA and PFOS on multiwalled carbon nanotubes under electrochemical assistance. *Environmental Science & Technology*, **2011**, 45, 8498-505	10.3	121
524	Remarkable improvement of visible light photocatalysis with PANI modified core–shell mesoporous TiO2 microspheres. *Applied Catalysis B: Environmental*, **2011**, 102, 126-131	21.8	120
523	Applying an electric field in a built-in zero valent iron--anaerobic reactor for enhancement of sludge granulation. *Water Research*, **2011**, 45, 1258-66	12.5	118

522	Fabrication of TiO2–Pt Coaxial Nanotube Array Schottky Structures for Enhanced Photocatalytic Degradation of Phenol in Aqueous Solution. *Journal of Physical Chemistry C*, **2008**, 112, 9285-9290	3.8	118
521	Highly Oriented 1-D ZnO Nanorod Arrays on Zinc Foil: Direct Growth from Substrate, Optical Properties and Photocatalytic Activities. *Journal of Physical Chemistry C*, **2008**, 112, 7332-7336	3.8	117
520	Enhancement of hexavalent chromium reduction and electricity production from a biocathode microbial fuel cell. *Bioprocess and Biosystems Engineering*, **2010**, 33, 937-45	3.7	116
519	Fabrication and characterization of silica/titania nanotubes composite membrane with photocatalytic capability. *Environmental Science & Technology*, **2006**, 40, 6104-9	10.3	116
518	Roles of magnetite and granular activated carbon in improvement of anaerobic sludge digestion. *Bioresource Technology*, **2018**, 249, 666-672	11	115
517	Selective catalytic oxidation of ammonia to nitrogen over CuO-CeO2 mixed oxides prepared by surfactant-templated method. *Applied Catalysis B: Environmental*, **2013**, 134-135, 153-166	21.8	114
516	Enhanced high-solids anaerobic digestion of waste activated sludge by the addition of scrap iron. *Bioresource Technology*, **2014**, 159, 297-304	11	114
515	Evaluation of bias potential enhanced photocatalytic degradation of 4-chlorophenol with TiO2 nanotube fabricated by anodic oxidation method. *Chemical Engineering Journal*, **2009**, 146, 30-35	14.7	114
514	Fabrication of a TiO2-BDD heterojunction and its application as a photocatalyst for the simultaneous oxidation of an azo dye and reduction of Cr(VI). *Environmental Science & Technology*, **2008**, 42, 3791-6	10.3	114
513	TiO2–carbon nanotube heterojunction arrays with a controllable thickness of TiO2 layer and their first application in photocatalysis. *Journal of Photochemistry and Photobiology A: Chemistry*, **2008**, 200, 301-306	4.7	114
512	Synthesis of Z-scheme Ag2CrO4/Ag/g-C3N4 composite with enhanced visible-light photocatalytic activity for 2,4-dichlorophenol degradation. *Applied Catalysis B: Environmental*, **2017**, 219, 439-449	21.8	113
511	Photonic crystal coupled TiO(2)/polymer hybrid for efficient photocatalysis under visible light irradiation. *Environmental Science & Technology*, **2010**, 44, 3481-5	10.3	113
510	Adsorption of ciprofloxacin, bisphenol and 2-chlorophenol on electrospun carbon nanofibers: in comparison with powder activated carbon. *Journal of Colloid and Interface Science*, **2015**, 447, 120-7	9.3	112
509	Fabrication of g-C3N4/Ti3C2 composite and its visible-light photocatalytic capability for ciprofloxacin degradation. *Separation and Purification Technology*, **2019**, 211, 782-789	8.3	112
508	Adaptively Evolving Bacterial Communities for Complete and Selective Reduction of Cr(VI), Cu(II), and Cd(II) in Biocathode Bioelectrochemical Systems. *Environmental Science & Technology*, **2015**, 49, 9914-24	10.3	111
507	Photoelectrocatalytic degradation of pentachlorophenol in aqueous solution using a TiO2 nanotube film electrode. *Environmental Pollution*, **2007**, 147, 409-14	9.3	110
506	Decoloration of azo dye by a multi-needle-to-plate high-voltage pulsed corona discharge system in water. *Journal of Electrostatics*, **2006**, 64, 416-421	1.7	110
505	Construction of Z-Scheme g-CN/RGO/WO with in situ photoreduced graphene oxide as electron mediator for efficient photocatalytic degradation of ciprofloxacin. *Chemosphere*, **2019**, 215, 444-453	8.4	110

504	An electrochemically enhanced solid-phase microextraction approach based on molecularly imprinted polypyrrole/multi-walled carbon nanotubes composite coating for selective extraction of fluoroquinolones in aqueous samples. *Analytica Chimica Acta*, **2012**, 727, 26-33	6.6	105
503	Efficient photo-Fenton activity in mesoporous MIL-100(Fe) decorated with ZnO nanosphere for pollutants degradation. *Applied Catalysis B: Environmental*, **2019**, 245, 428-438	21.8	105
502	Potential for direct interspecies electron transfer in an electric-anaerobic system to increase methane production from sludge digestion. *Scientific Reports*, **2015**, 5, 11094	4.9	104
501	Adding Fe0 powder to enhance the anaerobic conversion of propionate to acetate. *Biochemical Engineering Journal*, **2013**, 73, 80-85	4.2	104
500	Characterization of boron-doped TiO2 nanotube arrays prepared by electrochemical method and its visible light activity. *Separation and Purification Technology*, **2008**, 62, 668-673	8.3	104
499	Degradation of p-nitrophenol in aqueous solution by microwave assisted oxidation process through a granular activated carbon fixed bed. *Water Research*, **2006**, 40, 3061-3068	12.5	103
498	Stable Superhydrophobic Ceramic-Based Carbon Nanotube Composite Desalination Membranes. *Nano Letters*, **2018**, 18, 5514-5521	11.5	102
497	Distance-independent quenching of quantum dots by nanoscale-graphene in self-assembled sandwich immunoassay. *Chemical Communications*, **2010**, 46, 7909-11	5.8	102
496	Reductive dechlorination and mineralization of pentachlorophenol in biocathode microbial fuel cells. *Bioresource Technology*, **2012**, 111, 167-74	11	100
495	Mulberry-like CdSe Nanoclusters Anchored on TiO2 Nanotube Arrays: A Novel Architecture with Remarkable Photoelectrochemical Performance. *Chemistry of Materials*, **2009**, 21, 3090-3095	9.6	100
494	Fabrication of photocatalytic membrane and evaluation its efficiency in removal of organic pollutants from water. *Separation and Purification Technology*, **2006**, 50, 147-155	8.3	100
493	Cobalt Nanoparticles Encapsulated in Porous Carbons Derived from Core-Shell ZIF67@ZIF8 as Efficient Electrocatalysts for Oxygen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2017**, 9, 28685-28694	9.5	97
492	Single-atom platinum confined by the interlayer nanospace of carbon nitride for efficient photocatalytic hydrogen evolution. *Nano Energy*, **2020**, 69, 104409	17.1	97
491	Selective catalytic reaction of NOx with NH3 over CeFe/TiO2-loaded wire-mesh honeycomb: Resistance to SO2 poisoning. *Applied Catalysis B: Environmental*, **2014**, 150-151, 630-635	21.8	96
490	FeO-AuNPs anchored 2D metal-organic framework nanosheets with DNA regulated switchable peroxidase-like activity. *Nanoscale*, **2017**, 9, 18699-18710	7.7	96
489	Comparing the mechanisms of ZVI and FeO for promoting waste-activated sludge digestion. *Water Research*, **2018**, 144, 126-133	12.5	95
488	Photocatalytic reaction by Fe(III)Citrate complex and its effect on the photodegradation of atrazine in aqueous solution. *Journal of Photochemistry and Photobiology A: Chemistry*, **2008**, 197, 382-388	4.7	94
487	Facile Method for Fabricating Boron-Doped TiO2 Nanotube Array with Enhanced Photoelectrocatalytic Properties. *Industrial & Engineering Chemistry Research*, **2008**, 47, 3804-3808	3.9	93

486	Bioaugmentation and functional partitioning in a zero valent iron-anaerobic reactor for sulfate-containing wastewater treatment. *Chemical Engineering Journal*, **2011**, 174, 159-165	14.7	91
485	Enhanced generation of oxidative species and phenol degradation in a discharge plasma system coupled with TiO2 photocatalysis. *Applied Catalysis B: Environmental*, **2008**, 83, 72-77	21.8	89
484	Preparation of molecularly imprinted polymer nanoparticles for selective removal of fluoroquinolone antibiotics in aqueous solution. *Journal of Hazardous Materials*, **2013**, 244-245, 750-7	12.8	88
483	Effects of ferric iron on the anaerobic treatment and microbial biodiversity in a coupled microbial electrolysis cell (MEC)--anaerobic reactor. *Water Research*, **2013**, 47, 5719-28	12.5	88
482	Fabrication of a TiO2/carbon nanowall heterojunction and its photocatalytic ability. *Carbon*, **2008**, 46, 1126-1132	10.4	88
481	A "turn-on" fluorescent copper biosensor based on DNA cleavage-dependent graphene-quenched DNAzyme. *Biosensors and Bioelectronics*, **2011**, 26, 4111-6	11.8	87
480	Performing a microfiltration integrated with photocatalysis using an Ag-TiO(2)/HAP/Al(2)O(3) composite membrane for water treatment: Evaluating effectiveness for humic acid removal and anti-fouling properties. *Water Research*, **2010**, 44, 6104-14	12.5	87
479	Preparation of Ag doped BiVO4 film and its enhanced photoelectrocatalytic (PEC) ability of phenol degradation under visible light. *Journal of Hazardous Materials*, **2009**, 167, 911-4	12.8	87
478	Studies of silver species for low-temperature CO oxidation on Ag/SiO2 catalysts. *Separation and Purification Technology*, **2010**, 72, 395-400	8.3	87
477	Electrochemically enhanced adsorption of aniline on activated carbon fibers. *Separation and Purification Technology*, **2006**, 50, 365-372	8.3	87
476	Enhanced heterogeneous activation of peroxymonosulfate by Co and N codoped porous carbon for degradation of organic pollutants: the synergism between Co and N. *Environmental Science: Nano*, **2019**, 6, 399-410	7.1	86
475	Enhanced permeability, selectivity, and antifouling ability of CNTs/Al2O3 membrane under electrochemical assistance. *Environmental Science & Technology*, **2015**, 49, 2293-300	10.3	86
474	Preparation and evaluation of molecularly imprinted solid-phase microextraction fibers for selective extraction of bisphenol A in complex samples. *Journal of Chromatography A*, **2009**, 1216, 5647-54	4.5	86
473	TiO2 nanotube/Ag⁄AgBr three-component nanojunction for efficient photoconversion. *Journal of Materials Chemistry*, **2011**, 21, 18067		85
472	Electrochemically assisted photocatalytic inactivation of Escherichia coli under visible light using a ZnIn2S4 film electrode. *Langmuir*, **2008**, 24, 7599-604	4	85
471	A versatile fluorescent biosensor based on target-responsive graphene oxide hydrogel for antibiotic detection. *Biosensors and Bioelectronics*, **2016**, 83, 267-73	11.8	85
470	A silicon-doped TiO2 nanotube arrays electrode with enhanced photoelectrocatalytic activity. *Applied Surface Science*, **2008**, 255, 2167-2172	6.7	84
469	Ag⁄TiO2/HAP/Al2O3 bioceramic composite membrane: Fabrication, characterization and bactericidal activity. *Journal of Membrane Science*, **2009**, 336, 109-117	9.6	83

468	Structuring phase junction between tri-s-triazine and triazine crystalline C3N4 for efficient photocatalytic hydrogen evolution. *Applied Catalysis B: Environmental*, **2018**, 227, 153-160	21.8	82
467	Generation of hydroxyl radical in aqueous solution by microwave energy using activated carbon as catalyst and its potential in removal of persistent organic substances. *Journal of Molecular Catalysis A*, **2007**, 263, 216-222		81
466	Constructing BiVO4-Au@CdS photocatalyst with energic charge-carrier-separation capacity derived from facet induction and Z-scheme bridge for degradation of organic pollutants. *Applied Catalysis B: Environmental*, **2018**, 227, 258-265	21.8	80
465	Integration of separation and photocatalysis using an inorganic membrane modified with Si-doped TiO2 for water purification. *Journal of Membrane Science*, **2009**, 335, 58-67	9.6	80
464	Formation of hydrogen peroxide and degradation of phenol in synergistic system of pulsed corona discharge combined with TiO2 photocatalysis. *Journal of Hazardous Materials*, **2007**, 141, 336-43	12.8	80
463	Three-Dimensional Graphene Supported Bimetallic Nanocomposites with DNA Regulated-Flexibly Switchable Peroxidase-Like Activity. *ACS Applied Materials & Interfaces*, **2016**, 8, 9855-64	9.5	79
462	Photolysis of polycyclic aromatic hydrocarbons adsorbed on spruce [Picea abies (L) Karst] needles under sunlight irradiation. *Environmental Pollution*, **2003**, 123, 39-45	9.3	78
461	Label-free fluorescent detection of Cu(II) ions based on DNA cleavage-dependent graphene-quenched DNAzymes. *Chemical Communications*, **2011**, 47, 7749-51	5.8	77
460	Highly sensitive and selective fluorescence sensor based on functional SBA-15 for detection of Hg2+ in aqueous media. *Talanta*, **2010**, 81, 643-9	6.2	77
459	Regeneration of acid orange 7-exhausted granular activated carbons with microwave irradiation. *Water Research*, **2004**, 38, 4484-90	12.5	77
458	Enhanced Photocatalytic H2O2 Production over Carbon Nitride by Doping and Defect Engineering. *ACS Catalysis*, **2020**, 10, 14380-14389	13.1	77
457	Catalytic performance and an insight into the mechanism of CeO2 nanocrystals with different exposed facets in catalytic ozonation of p-nitrophenol. *Applied Catalysis B: Environmental*, **2019**, 248, 526-537	21.8	77
456	Novel phosphorus doped carbon nitride modified TiO nanotube arrays with improved photoelectrochemical performance. *Nanoscale*, **2015**, 7, 16282-9	7.7	76
455	Constructing graphene/InNbO4 composite with excellent adsorptivity and charge separation performance for enhanced visible-light-driven photocatalytic ability. *Applied Catalysis B: Environmental*, **2011**, 105, 237-242	21.8	74
454	Treatment of petroleum refinery wastewater by microwave-assisted catalytic wet air oxidation under low temperature and low pressure. *Separation and Purification Technology*, **2008**, 62, 565-570	8.3	74
453	Characterisation of acute toxicity, genotoxicity and oxidative stress posed by textile effluent on zebrafish. *Journal of Environmental Sciences*, **2012**, 24, 2019-27	6.4	72
452	Structural and photovoltaic properties of highly ordered ZnFe2O4 nanotube arrays fabricated by a facile sol gel template method. *Acta Materialia*, **2009**, 57, 2684-2690	8.4	72
451	Rapid and complete dechlorination of PCP in aqueous solution using Ni-Fe nanoparticles under assistance of ultrasound. *Chemosphere*, **2006**, 65, 58-64	8.4	72

450	Stimuli-responsive peroxidase mimicking at a smart graphene interface. *Chemical Communications*, **2012**, 48, 7055-7	5.8	71
449	A structured macroporous silicon/graphene heterojunction for efficient photoconversion. *Angewandte Chemie - International Edition*, **2010**, 49, 5106-9	16.4	71
448	Selective electrochemical HO generation and activation on a bifunctional catalyst for heterogeneous electro-Fenton catalysis. *Journal of Hazardous Materials*, **2020**, 382, 121102	12.8	71
447	Integration of membrane filtration and photoelectrocatalysis on g-C3N4/CNTs/Al2O3 membrane with visible-light response for enhanced water treatment. *Journal of Membrane Science*, **2017**, 541, 153-161	8.4	70
446	Boron and Nitrogen Codoped Nanodiamond as an Efficient Metal-Free Catalyst for Oxygen Reduction Reaction. *Journal of Physical Chemistry C*, **2013**, 117, 14992-14998	3.8	70
445	Enhancement of p,p'-DDT photodegradation on soil surfaces using TiO2 induced by UV-light. *Chemosphere*, **2005**, 60, 266-73	8.4	70
444	Ferroelectric-enhanced Z-schematic electron transfer in BiVO 4 -BiFeO 3 -CuInS 2 for efficient photocatalytic pollutant degradation. *Applied Catalysis B: Environmental*, **2017**, 209, 591-599	21.8	69
443	Cobalt recovery with simultaneous methane and acetate production in biocathode microbial electrolysis cells. *Chemical Engineering Journal*, **2014**, 253, 281-290	14.7	69
442	Selective catalytic oxidation of ammonia to nitrogen over ceria–zirconia mixed oxides. *Applied Catalysis A: General*, **2012**, 411-412, 131-138	5.1	68
441	Performance of a ZVI-UASB reactor for azo dye wastewater treatment. *Journal of Chemical Technology and Biotechnology*, **2011**, 86, 199-204	3.5	68
440	Efficient and durable hydrogen evolution electrocatalyst based on nonmetallic nitrogen doped hexagonal carbon. *Scientific Reports*, **2014**, 4, 6843	4.9	67
439	Dependency of simultaneous Cr(VI), Cu(II) and Cd(II) reduction on the cathodes of microbial electrolysis cells self-driven by microbial fuel cells. *Journal of Power Sources*, **2015**, 273, 1103-1113	8.9	67
438	Electricity assisted anaerobic treatment of salinity wastewater and its effects on microbial communities. *Water Research*, **2012**, 46, 3535-43	12.5	67
437	Nanocarbon-based membrane filtration integrated with electric field driving for effective membrane fouling mitigation. *Water Research*, **2016**, 88, 285-292	12.5	66
436	Temperature measurement of GAC and decomposition of PCP loaded on GAC and GAC-supported copper catalyst in microwave irradiation. *Applied Catalysis A: General*, **2004**, 264, 53-58	5.1	66
435	Enhanced photocatalytic performance of a two-dimensional BiOIO3/g-C3N4 heterostructured composite with a Z-scheme configuration. *Applied Catalysis B: Environmental*, **2018**, 237, 947-956	21.8	66
434	Porous metal–organic framework MIL-100(Fe) as an efficient catalyst for the selective catalytic reduction of NOx with NH3. *RSC Advances*, **2014**, 4, 48912-48919	3.7	65
433	Impact of Fe(III) as an effective electron-shuttle mediator for enhanced Cr(VI) reduction in microbial fuel cells: Reduction of diffusional resistances and cathode overpotentials. *Journal of Hazardous Materials*, **2017**, 321, 896-906	12.8	65

432	Nitrogen and sulfur co-doped graphene/carbon nanotube as metal-free electrocatalyst for oxygen evolution reaction: the enhanced performance by sulfur doping. *Electrochimica Acta*, **2016**, 204, 169-175	6.7	65
431	Effects of an electric field and zero valent iron on anaerobic treatment of azo dye wastewater and microbial community structures. *Bioresource Technology*, **2011**, 102, 2578-84	11	64
430	Structuring a TiO2-based photonic crystal photocatalyst with Schottky junction for efficient photocatalysis. *Environmental Science & Technology*, **2010**, 44, 451-5	10.3	64
429	Potentially direct interspecies electron transfer of methanogenesis for syntrophic metabolism under sulfate reducing conditions with stainless steel. *Bioresource Technology*, **2017**, 234, 303-309	11	63
428	Electricity generation and bivalent copper reduction as a function of operation time and cathode electrode material in microbial fuel cells. *Journal of Power Sources*, **2016**, 307, 705-714	8.9	63
427	Cobalt implanted TiO2 nanocatalyst for heterogeneous activation of peroxymonosulfate. *RSC Advances*, **2013**, 3, 520-525	3.7	63
426	Synergetic interactions improve cobalt leaching from lithium cobalt oxide in microbial fuel cells. *Bioresource Technology*, **2013**, 128, 539-46	11	63
425	Health risk assessment of heavy metals and pesticides: A case study in the main drinking water source in Dalian, China. *Chemosphere*, **2020**, 242, 125113	8.4	63
424	Accelerated startup of moving bed biofilm process with novel electrophilic suspended biofilm carriers. *Chemical Engineering Journal*, **2017**, 315, 364-372	14.7	62
423	Complete cobalt recovery from lithium cobalt oxide in self-driven microbial fuel cell Microbial electrolysis cell systems. *Journal of Power Sources*, **2014**, 259, 54-64	8.9	62
422	Microwave thermal remediation of crude oil contaminated soil enhanced by carbon fiber. *Journal of Environmental Sciences*, **2009**, 21, 1290-5	6.4	61
421	Porous LiMn2O4 microspheres as durable high power cathode materials for lithium ion batteries. *Journal of Materials Chemistry A*, **2013**, 1, 8170	13	60
420	Effect of embedded-silica on microstructure and photocatalytic activity of titania prepared by ultrasound-assisted hydrolysis. *Applied Catalysis B: Environmental*, **2004**, 52, 33-40	21.8	60
419	Carbon nitride with electron storage property: Enhanced exciton dissociation for high-efficient photocatalysis. *Applied Catalysis B: Environmental*, **2018**, 236, 99-106	21.8	59
418	Occurrence, removal, and risk assessment of antibiotics in 12 wastewater treatment plants from Dalian, China. *Environmental Science and Pollution Research*, **2017**, 24, 16478-16487	5.1	59
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