Lizhi Zhang

List of Publications by Year in Descending Order

200 papers	19,928 citations	73 h-index	139 g-index
208 ext. papers	23,800 ext. citations	11.1 avg, IF	7.53 L-index

#	Paper	IF	Citations
200	Vacancy-Rich and Porous NiFe-Layered Double Hydroxide Ultrathin Nanosheets for Efficient Photocatalytic NO Oxidation and Storage.. *Environmental Science & Technology*, **2022**,	10.3	4
199	Rare earth La single atoms supported MoO3-x for efficient photocatalytic nitrogen fixation. *Applied Catalysis B: Environmental*, **2022**, 301, 120766	21.8	14
198	Efficient removal of PFOA with an InO/persulfate system under solar light via the combined process of surface radicals and photogenerated holes. *Journal of Hazardous Materials*, **2022**, 423, 127176	12.8	4
197	Oxygen and Chlorine Dual Vacancies Enable Photocatalytic O Dissociation into Monatomic Reactive Oxygen on BiOCl for Refractory Aromatic Pollutant Removal.. *Environmental Science & Technology*, **2022**,	10.3	4
196	Rapid ultrasensitive detection of hexavalent chromium in soil and groundwater by a microProbing imaging platform.. *Journal of Hazardous Materials*, **2022**, 433, 128809	12.8	0
195	SO2-enhanced nitrate photolysis on TiO2 minerals: A vital role of photochemically reactive holes. *Applied Catalysis B: Environmental*, **2022**, 308, 121217	21.8	0
194	A controllable reduction-oxidation coupling process for chloronitrobenzenes remediation: From lab to field trial.. *Water Research*, **2022**, 218, 118453	12.5	1
193	Membrane disruption boosts iron overload and endogenous oxidative stress to inactivate Escherichia coli by nanoscale zero-valent iron.. *Journal of Hazardous Materials*, **2022**, 435, 128951	12.8	
192	Hydroxylamine enables rapid heterogeneous-homogeneous coupled Fenton sulfamethazine degradation on ferric phosphate. *Applied Catalysis B: Environmental*, **2022**, 312, 121410	21.8	1
191	FeCO2HO enables sustainable conversion of hydrogen peroxide to hydroxyl radical for promoted mineralization and detoxification of sulfadimidine.. *Journal of Hazardous Materials*, **2022**, 436, 129049	12.8	1
190	O2 activation and 1O2 generation over phosphate modified BiOCl for efficient photodegradation of organic pollutants. *Applied Catalysis B: Environmental*, **2022**, 121520	21.8	0
189	Zero-valent iron coupled calcium hydroxide: A highly efficient strategy for removal and magnetic separation of concentrated fluoride from acidic wastewater. *Science of the Total Environment*, **2022**, 838, 156336	10.2	0
188	Fabrication and Excellent Antibacterial Activity of Well-defined CuO/Graphdiyne Nanostructure. *Chemical Research in Chinese Universities*, **2021**, 37, 1341-1347	2.2	2
187	Van Der Waals gap-rich BiOCl atomic layers realizing efficient, pure-water CO-to-CO photocatalysis. *Nature Communications*, **2021**, 12, 5923	17.4	29
186	Plasmonic O dissociation and spillover expedite selective oxidation of primary C-H bonds.. *Chemical Science*, **2021**, 12, 15308-15317	9.4	3
185	Azo-Enhanced Raman Scattering for Enhancing the Sensitivity and Tuning the Frequency of Molecular Vibrations. *ACS Central Science*, **2021**, 7, 768-780	16.8	4
184	Highly efficient and selective photoreduction of CO to CO with nanosheet g-CN as compared with its bulk counterpart. *Environmental Research*, **2021**, 195, 110880	7.9	3

183	Diffusion-Controlled Z-Scheme-Steered Charge Separation across PDI/BiOI Heterointerface for Ultraviolet, Visible, and Infrared Light-Driven Photocatalysis. *Advanced Functional Materials*, **2021**, 31, 2102315	15.6	14
182	Kirkendall Effect Boosts Phosphorylated nZVI for Efficient Heavy Metal Wastewater Treatment. *Angewandte Chemie*, **2021**, 133, 17252-17259	3.6	0
181	Kirkendall Effect Boosts Phosphorylated nZVI for Efficient Heavy Metal Wastewater Treatment. *Angewandte Chemie - International Edition*, **2021**, 60, 17115-17122	16.4	21
180	Modulating Oxygen Reduction Behaviors on Nickel Single-Atom Catalysts to Probe the Electrochemiluminescence Mechanism at the Atomic Level. *Analytical Chemistry*, **2021**, 93, 8663-8670	7.8	8
179	Defect-Engineered Nanozyme-Linked Receptors. *Small*, **2021**, 17, e2101907	11	11
178	Simultaneous Manipulation of Bulk Excitons and Surface Defects for Ultrastable and Highly Selective CO Photoreduction. *Advanced Materials*, **2021**, 33, e2100143	24	34
177	Spin-State-Dependent Peroxymonosulfate Activation of Single-Atom MN Moieties via a Radical-Free Pathway. *ACS Catalysis*, **2021**, 11, 9569-9577	13.1	34
176	Ascorbate guided conversion of hydrogen peroxide to hydroxyl radical on goethite. *Applied Catalysis B: Environmental*, **2021**, 282, 119558	21.8	26
175	Dual-function surface hydrogen bonds enable robust O2 activation for deep photocatalytic toluene oxidation. *Catalysis Science and Technology*, **2021**, 11, 319-331	5.5	4
174	Environmental photochemistry in hematite-oxalate system: Fe(III)-Oxalate complex photolysis and ROS generation. *Applied Catalysis B: Environmental*, **2021**, 283, 119645	21.8	11
173	Transformation of Atrazine to Hydroxyatrazine with Alkali-H2O2 Treatment: An Efficient Dechlorination Strategy under Alkaline Conditions. *ACS ES&T Water*, **2021**, 1, 1868-1877		2
172	Oxygen vacancies promote sulfur species accumulation on TiO2 mineral particles. *Applied Catalysis B: Environmental*, **2021**, 290, 120024	21.8	12
171	Sulphur vacancy derived anaerobic hydroxyl radical generation at the pyrite-water interface: Pollutants removal and pyrite self-oxidation behavior. *Applied Catalysis B: Environmental*, **2021**, 290, 120051	21.8	9
170	Structural dependent Cr(VI) adsorption and reduction of biochar: hydrochar versus pyrochar. *Science of the Total Environment*, **2021**, 783, 147084	10.2	17
169	Oxalate Modification Dramatically Promoted Cr(VI) Removal with Zero-Valent Iron. *ACS ES&T Water* , **2021**, 1, 2109-2118		7
168	New Strategies for Nitrogen Fixation and Pollution Control. *Chinese Journal of Chemistry*, **2021**, 39, 3199	4.9	2
167	Adjacent single-atom irons boosting molecular oxygen activation on MnO. *Nature Communications*, **2021**, 12, 5422	17.4	26
166	Photocatalytic oxidative dehydrogenation of cyclohexane to cyclohexene over oxygen-deficient tungsten trioxide. *Applied Catalysis B: Environmental*, **2021**, 298, 120549	21.8	2

165	Synthesis of deuterium-labeled DL-threo-thiamphenicol. *Journal of Radioanalytical and Nuclear Chemistry*, **2020**, 324, 1463-1467	1.5	
164	Surface hydrogen bond network spatially confined BiOCl oxygen vacancy for photocatalysis. *Science Bulletin*, **2020**, 65, 1916-1923	10.6	28
163	Visible light promoted Fe3S4 Fenton oxidation of atrazine. *Applied Catalysis B: Environmental*, **2020**, 277, 119229	21.8	35
162	The surface hydroxyl and oxygen vacancy dependent Cr(VI) adsorption performance of BiOCl. *Environmental Science: Nano*, **2020**, 7, 1454-1463	7.1	17
161	Efficient Ammonia Electrosynthesis from Nitrate on Strained Ruthenium Nanoclusters. *Journal of the American Chemical Society*, **2020**, 142, 7036-7046	16.4	159
160	Atomic-Scale Tuning of Graphene/Cubic SiC Schottky Junction for Stable Low-Bias Photoelectrochemical Solar-to-Fuel Conversion. *ACS Nano*, **2020**, 14, 4905-4915	16.7	17
159	Well-defined CoPtOH as electronic pumpon Co-LDH nanocages for enhanced oxygen evolution reaction. *Applied Catalysis B: Environmental*, **2020**, 269, 118782	21.8	19
158	Enhanced Cr(VI) removal of zero-valent iron with high proton conductive FeC2O42H2O shell. *Chemical Engineering Journal*, **2020**, 389, 124414	14.7	24
157	Dual-site activation enhanced photocatalytic removal of no with Au/CeO2. *Chemical Engineering Journal*, **2020**, 386, 124047	14.7	40
156	Elucidating the Nature of the Cu(I) Active Site in CuO/TiO for Excellent Low-Temperature CO Oxidation. *ACS Applied Materials & Interfaces*, **2020**, 12, 7091-7101	9.5	20
155	Enhanced adsorption and photocatalytic degradation of perfluorooctanoic acid in water using iron (hydr)oxides/carbon sphere composite. *Chemical Engineering Journal*, **2020**, 388, 124230	14.7	32
154	Enhanced photocatalytic degradation of perfluorooctanoic acid using carbon-modified bismuth phosphate composite: Effectiveness, material synergy and roles of carbon. *Chemical Engineering Journal*, **2020**, 395, 124991	14.7	29
153	Phosphate modification enables high efficiency and electron selectivity of nZVI toward Cr(VI) removal. *Applied Catalysis B: Environmental*, **2020**, 263, 118364	21.8	39
152	Simulated solar light driven Fe(III)/Fe(II) redox cycle for roxarsone degradation and simultaneous arsenate immobilization. *Journal of Hazardous Materials*, **2020**, 394, 121635	12.8	14
151	Ascorbic acid promoted magnetite Fenton degradation of alachlor: Mechanistic insights and kinetic modeling. *Applied Catalysis B: Environmental*, **2020**, 267, 118383	21.8	52
150	Simulated solar light driven roxarsone degradation and arsenic immobilization with hematite and oxalate. *Chemical Engineering Journal*, **2020**, 384, 123254	14.7	18
149	Amorphization enables highly efficient anaerobic thiamphenicol reduction by zero-valent iron. *Applied Catalysis B: Environmental*, **2020**, 264, 118550	21.8	16
148	Insight into the effect of bromine on facet-dependent surface oxygen vacancies construction and stabilization of Bi2MoO6 for efficient photocatalytic NO removal. *Applied Catalysis B: Environmental*, **2020**, 265, 118585	21.8	50

147	Pyrite enables persulfate activation for efficient atrazine degradation. *Chemosphere*, **2020**, 244, 125568	8.4	27
146	Rapid photochemical decomposition of perfluorooctanoic acid mediated by a comprehensive effect of nitrogen dioxide radicals and Fe/Fe redox cycle. *Journal of Hazardous Materials*, **2020**, 388, 121730	12.8	14
145	Solar-driven efficient methane catalytic oxidation over epitaxial ZnO/La0.8Sr0.2CoO3 heterojunctions. *Applied Catalysis B: Environmental*, **2020**, 265, 118469	21.8	19
144	Surface structure-dependent photocatalytic O activation for pollutant removal with bismuth oxyhalides. *Chemical Communications*, **2020**, 56, 15282-15296	5.8	19
143	Sulfur vacancy promoted peroxidase-like activity of magnetic greigite (FeS) for colorimetric detection of serum glucose. *Analytica Chimica Acta*, **2020**, 1127, 246-255	6.6	19
142	Smart pH-Regulated Switchable Nanoprobes for Photoelectrochemical Multiplex Detection of Antibiotic Resistance Genes. *Analytical Chemistry*, **2020**, 92, 11476-11483	7.8	12
141	Hydrogen Spillover to Oxygen Vacancy of TiOH/Fe: Breaking the Scaling Relationship of Ammonia Synthesis. *Journal of the American Chemical Society*, **2020**, 142, 17403-17412	16.4	24
140	Electrochemically self-doped WO3/TiO2 nanotubes for photocatalytic degradation of volatile organic compounds. *Applied Catalysis B: Environmental*, **2020**, 260, 118205	21.8	92
139	A one-step acidification strategy for sewage sludge dewatering with oxalic acid. *Chemosphere*, **2020** , 238, 124598	8.4	21
138	Persulfate activation induced by ascorbic acid for efficient organic pollutants oxidation. *Chemical Engineering Journal*, **2020**, 382, 122355	14.7	26
137	Beyond the Thermal Equilibrium Limit of Ammonia Synthesis with Dual Temperature Zone Catalyst Powered by Solar Light. *CheM*, **2019**, 5, 2702-2717	16.2	46
136	Insights into the facet-dependent adsorption of phenylarsonic acid on hematite nanocrystals. *Environmental Science: Nano*, **2019**, 6, 3280-3291	7.1	8
135	Oxygen Vacancy Promoted O2 Activation over Perovskite Oxide for Low-Temperature CO Oxidation. *ACS Catalysis*, **2019**, 9, 9751-9763	13.1	116
134	Molecular-scale structures of uranyl surface complexes on hematite facets. *Environmental Science: Nano*, **2019**, 6, 892-903	7.1	15
133	Enhanced Cr(VI) immobilization on goethite derived from an extremely acidic environment. *Environmental Science: Nano*, **2019**, 6, 2185-2194	7.1	11
132	Liquid Nitrogen Activation of Zero-Valent Iron and Its Enhanced Cr(VI) Removal Performance. *Environmental Science & Technology*, **2019**, 53, 8333-8341	10.3	75
131	Photothermal reverse-water-gas-shift over Au/CeO2 with high yield and selectivity in CO2 conversion. *Catalysis Communications*, **2019**, 129, 105724	3.2	19
130	Highly efficient electrochemical conversion of CO2 and NaCl to CO and NaClO. *Green Chemistry*, **2019**, 21, 3256-3262	10	27

129	Anion (O, N, C, and S) vacancies promoted photocatalytic nitrogen fixation. *Green Chemistry*, **2019**, 21, 2852-2867	10	84
128	Bifunctional S, N-Codoped carbon dots-based novel electrochemiluminescent bioassay for ultrasensitive detection of atrazine using activated mesoporous biocarbon as enzyme nanocarriers. *Analytica Chimica Acta*, **2019**, 1073, 45-53	6.6	12
127	Interfacial Charging-Decharging Strategy for Efficient and Selective Aerobic NO Oxidation on Oxygen Vacancy. *Environmental Science & Technology*, **2019**, 53, 6964-6971	10.3	44
126	Oxygen Vacancies Promoted the Selective Photocatalytic Removal of NO with Blue TiO via Simultaneous Molecular Oxygen Activation and Photogenerated Hole Annihilation. *Environmental Science & Technology*, **2019**, 53, 6444-6453	10.3	114
125	Photochemical behavior of ferrihydrite-oxalate system: Interfacial reaction mechanism and charge transfer process. *Water Research*, **2019**, 159, 10-19	12.5	35
124	Fast transformation of roxarsone into toxic arsenic species with ferrous iron and tetrapolyphosphate. *Environmental Chemistry Letters*, **2019**, 17, 1077-1084	13.3	4
123	Dechlorination-Hydroxylation of Atrazine to Hydroxyatrazine with Thiosulfate: A Detoxification Strategy in Seconds. *Environmental Science & Technology*, **2019**, 53, 3208-3216	10.3	25
122	Robust and well-controlled TiO2@Al2O3 binary nanoarray-integrated ceramic honeycomb for efficient propane combustion. *CrystEngComm*, **2019**, 21, 2727-2735	3.3	2
121	Rapid Aerobic Inactivation and Facile Removal of Escherichia coli with Amorphous Zero-Valent Iron Microspheres: Indispensable Roles of Reactive Oxygen Species and Iron Corrosion Products. *Environmental Science & Technology*, **2019**, 53, 3707-3717	10.3	34
120	Protocatechuic acid promoted catalytic degradation of rhodamine B with Fe@Fe2O3 core-shell nanowires by molecular oxygen activation mechanism. *Catalysis Today*, **2019**, 335, 144-150	5.3	5
119	Hexavalent chromium removal by a new composite system of dissimilatory iron reduction bacteria Aeromonas hydrophila and nanoscale zero-valent iron. *Chemical Engineering Journal*, **2019**, 362, 63-70	14.7	33
118	Boosted photoelectrochemical immunosensing of metronidazole in tablet using coral-like g-CN nanoarchitectures. *Biosensors and Bioelectronics*, **2019**, 123, 7-13	11.8	23
117	Persistent free radicals in carbon-based materials on transformation of refractory organic contaminants (ROCs) in water: A critical review. *Water Research*, **2018**, 137, 130-143	12.5	158
116	Molecular O Activation over Cu(I)-Mediated C?N Bond for Low-Temperature CO Oxidation. *ACS Applied Materials & Interfaces*, **2018**, 10, 17167-17174	9.5	16
115	Visible light driven selective oxidation of amines to imines with BiOCl: Does oxygen vacancy concentration matter?. *Applied Catalysis B: Environmental*, **2018**, 228, 87-96	21.8	169
114	Disposable photoelectrochemical sensing strip for highly sensitive determination of perfluorooctane sulfonyl fluoride on functionalized screen-printed carbon electrode. *Talanta*, **2018**, 181, 147-153	6.2	19
113	Fenton oxidation of organic contaminants with aquifer sediment activated by ascorbic acid. *Chemical Engineering Journal*, **2018**, 348, 255-262	14.7	26
112	Surface Fe(II)/Fe(III) Cycle Promoted Ultra-Highly Sensitive Electrochemical Sensing of Arsenic(III) with Dumbbell-Like Au/FeO Nanoparticles. *Analytical Chemistry*, **2018**, 90, 4569-4577	7.8	65

111	Durch Sauerstoff-Leerstellen vermittelte Photokatalyse mit BiOCl: Reaktivität, Selektivität und Ausblick. *Angewandte Chemie*, **2018**, 130, 128-145	3.6	43
110	Oxygen Vacancy-Mediated Photocatalysis of BiOCl: Reactivity, Selectivity, and Perspectives. *Angewandte Chemie - International Edition*, **2018**, 57, 122-138	16.4	593
109	Mn promoted Cr(VI) reduction with oxalic acid: The indispensable role of In-situ generated Mn. *Journal of Hazardous Materials*, **2018**, 343, 356-363	12.8	42
108	New opportunities for efficient N fixation by nanosheet photocatalysts. *Nanoscale*, **2018**, 10, 15429-15435	7.7	83
107	Facet-dependent contaminant removal properties of hematite nanocrystals and their environmental implications. *Environmental Science: Nano*, **2018**, 5, 1790-1806	7.1	64
106	High-Throughput Signal-On Photoelectrochemical Immunoassay of Lysozyme Based on Hole-Trapping Triggered by Disintegrating Bioconjugates of Dopamine-Grafted Silica Nanospheres. *ACS Sensors*, **2018**, 3, 1480-1488	9.2	27
105	Ni(II) induced aerobic ring opening degradation of atrazine with core-shell Fe@Fe2O3 nanowires. *Chemical Engineering Journal*, **2018**, 335, 720-727	14.7	16
104	Energy-confined solar thermal ammonia synthesis with K/Ru/TiO2-xHx. *Applied Catalysis B: Environmental*, **2018**, 224, 612-620	21.8	75
103	Efficient light-driven CO2 hydrogenation on Ru/CeO2 catalysts. *Catalysis Science and Technology*, **2018**, 8, 6503-6510	5.5	12
102	Atomically manipulated proton transfer energizes water oxidation on silicon carbide photoanodes. *Journal of Materials Chemistry A*, **2018**, 6, 24358-24366	13	13
101	Visible Light Driven Organic Pollutants Degradation with Hydrothermally Carbonized Sewage Sludge and Oxalate Via Molecular Oxygen Activation. *Environmental Science & Technology*, **2018**, 52, 12656-12666	10.3	58
100	Molecular Insights into NO-Promoted Sulfate Formation on Model TiO Nanoparticles with Different Exposed Facets. *Environmental Science & Technology*, **2018**, 52, 14110-14118	10.3	12
99	Oxygen Vacancies Mediated Complete Visible Light NO Oxidation via Side-On Bridging Superoxide Radicals. *Environmental Science & Technology*, **2018**, 52, 8659-8665	10.3	102
98	Ascorbic acid induced atrazine degradation. *Journal of Hazardous Materials*, **2017**, 327, 71-78	12.8	31
97	Fe@FeO promoted electrochemical mineralization of atrazine via a triazinon ring opening mechanism. *Water Research*, **2017**, 112, 9-18	12.5	65
96	New Reaction Pathway Induced by Plasmon for Selective Benzyl Alcohol Oxidation on BiOCl Possessing Oxygen Vacancies. *Journal of the American Chemical Society*, **2017**, 139, 3513-3521	16.4	517
95	Ascorbate-Promoted Surface Iron Cycle for Efficient Heterogeneous Fenton Alachlor Degradation with Hematite Nanocrystals. *ACS Applied Materials & Interfaces*, **2017**, 9, 8751-8758	9.5	86
94	Electrospun template directed molecularly imprinted nanofibers incorporated with BiOI nanoflake arrays as photoactive electrode for photoelectrochemical detection of triphenyl phosphate. *Biosensors and Bioelectronics*, **2017**, 92, 61-67	11.8	36

93	Oxygen Vacancy Associated Surface Fenton Chemistry: Surface Structure Dependent Hydroxyl Radicals Generation and Substrate Dependent Reactivity. *Environmental Science & Technology*, **2017**, 51, 5685-5694	10.3	251
92	Hydrothermal Carbon-Mediated Fenton-Like Reaction Mechanism in the Degradation of Alachlor: Direct Electron Transfer from Hydrothermal Carbon to Fe(III). *ACS Applied Materials & Interfaces*, **2017**, 9, 17115-17124	9.5	103
91	Phosphate Shifted Oxygen Reduction Pathway on Fe@FeO Core-Shell Nanowires for Enhanced Reactive Oxygen Species Generation and Aerobic 4-Chlorophenol Degradation. *Environmental Science & Technology*, **2017**, 51, 8101-8109	10.3	95
90	Photocatalytic performance of different exposed crystal facets of BiOCl. *Current Opinion in Green and Sustainable Chemistry*, **2017**, 6, 48-56	7.9	27
89	Hydroxylamine Promoted Goethite Surface Fenton Degradation of Organic Pollutants. *Environmental Science & Technology*, **2017**, 51, 5118-5126	10.3	251
88	Solar Water Splitting and Nitrogen Fixation with Layered Bismuth Oxyhalides. *Accounts of Chemical Research*, **2017**, 50, 112-121	24.3	425
87	Ascorbate Induced Facet Dependent Reductive Dissolution of Hematite Nanocrystals. *Journal of Physical Chemistry C*, **2017**, 121, 1113-1121	3.8	36
86	In Situ Carbon Homogeneous Doping on Ultrathin Bismuth Molybdate: A Dual-Purpose Strategy for Efficient Molecular Oxygen Activation. *Advanced Functional Materials*, **2017**, 27, 1703923	15.6	101
85	Photochemistry of Hydrochar: Reactive Oxygen Species Generation and Sulfadimidine Degradation. *Environmental Science & Technology*, **2017**, 51, 11278-11287	10.3	121
84	Nitrogen dioxide radicals mediated mineralization of perfluorooctanoic acid in aqueous nitrate solution with UV irradiation. *Chemosphere*, **2017**, 188, 367-374	8.4	17
83	Adsorption and reduction of roxarsone on magnetic greigite (Fe3S4): Indispensable role of structural sulfide. *Chemical Engineering Journal*, **2017**, 330, 1232-1239	14.7	36
82	Sulfite promoted photochemical cleavage of s-triazine ring: The case study of atrazine. *Chemical Engineering Journal*, **2017**, 330, 1075-1081	14.7	18
81	Iron oxide shell mediated environmental remediation properties of nano zero-valent iron. *Environmental Science: Nano*, **2017**, 4, 27-45	7.1	172
80	Efficient removal of bromate with core-shell Fe@Fe2O3 nanowires. *Chemical Engineering Journal*, **2017**, 308, 880-888	14.7	26
79	Enhanced aerobic degradation of 4-chlorophenol with iron-nickel nanoparticles. *Applied Surface Science*, **2017**, 393, 316-324	6.7	50
78	Copper Ions Promoted Aerobic Atrazine Degradation by Fe@Fe2O3 Nanowires. *Acta Chimica Sinica*, **2017**, 75, 602	3.3	5
77	Molecular Oxygen Activation with Nano Zero-valent Iron for Aerobic Degradation of Organic Contaminants and the Performance Enhancement. *Acta Chimica Sinica*, **2017**, 75, 538	3.3	8
76	Hematite facet confined ferrous ions as high efficient Fenton catalysts to degrade organic contaminants by lowering H2O2 decomposition energetic span. *Applied Catalysis B: Environmental*, **2016**, 181, 127-137	21.8	97

75	Oxygen Vacancy Structure Associated Photocatalytic Water Oxidation of BiOCl. *ACS Catalysis*, **2016**, 6, 8276-8285	13.1	263
74	Superior visible light hydrogen evolution of Janus bilayer junctions via atomic-level charge flow steering. *Nature Communications*, **2016**, 7, 11480	17.4	303
73	Giant Enhancement of Internal Electric Field Boosting Bulk Charge Separation for Photocatalysis. *Advanced Materials*, **2016**, 28, 4059-64	24	354
72	Ascorbic acid enhanced activation of oxygen by ferrous iron: A case of aerobic degradation of rhodamine B. *Journal of Hazardous Materials*, **2016**, 308, 67-74	12.8	63
71	Facet-Dependent Cr(VI) Adsorption of Hematite Nanocrystals. *Environmental Science & Technology*, **2016**, 50, 1964-72	10.3	174
70	Facet-dependent solar ammonia synthesis of BiOCl nanosheets via a proton-assisted electron transfer pathway. *Nanoscale*, **2016**, 8, 1986-93	7.7	200
69	Ultrasensitive photoelectrochemical determination of chromium(VI) in water samples by ion-imprinted/formate anion-incorporated graphitic carbon nitride nanostructured hybrid. *Journal of Hazardous Materials*, **2016**, 312, 106-113	12.8	53
68	Ascorbic acid/Fe@Fe2O3: A highly efficient combined Fenton reagent to remove organic contaminants. *Journal of Hazardous Materials*, **2016**, 310, 170-8	12.8	141
67	Self doping promoted photocatalytic removal of no under visible light with bi2moo6: Indispensable role of superoxide ions. *Applied Catalysis B: Environmental*, **2016**, 182, 316-325	21.8	127
66	A highly efficient zinc catalyst for selective electroreduction of carbon dioxide in aqueous NaCl solution. *Journal of Materials Chemistry A*, **2015**, 3, 16409-16413	13	91
65	A highly sensitive photoelectrochemical detection of perfluorooctanic acid with molecularly imprined polymer-functionalized nanoarchitectured hybrid of AgI-BiOI composite. *Biosensors and Bioelectronics*, **2015**, 73, 256-263	11.8	55
64	Efficient remediation of pentachlorophenol contaminated soil with tetrapolyphosphate washing and subsequent ZVI/Air treatment. *Journal of Hazardous Materials*, **2015**, 292, 27-33	12.8	12
63	Efficient Visible Light Nitrogen Fixation with BiOBr Nanosheets of Oxygen Vacancies on the Exposed {001} Facets. *Journal of the American Chemical Society*, **2015**, 137, 6393-9	16.4	1129
62	Facet-Level Mechanistic Insights into General Homogeneous Carbon Doping for Enhanced Solar-to-Hydrogen Conversion. *Advanced Functional Materials*, **2015**, 25, 2189-2201	15.6	121
61	Extraction of endocrine disrupting phenols with iron-ferric oxide core-shell nanowires on graphene oxide nanosheets, followed by their determination by HPLC. *Mikrochimica Acta*, **2015**, 182, 2503-2511	5.8	26
60	Molecularly imprinted ultrathin graphitic carbon nitride nanosheets-Based electrochemiluminescence sensing probe for sensitive detection of perfluorooctanoic acid. *Analytica Chimica Acta*, **2015**, 896, 68-77	6.6	48
59	Protocatechuic Acid Promoted Alachlor Degradation in Fe(III)/H2O2 Fenton System. *Environmental Science & Technology*, **2015**, 49, 7948-56	10.3	187
58	Photocatalytic NO removal on BiOI surface: The change from nonselective oxidation to selective oxidation. *Applied Catalysis B: Environmental*, **2015**, 168-169, 490-496	21.8	76

57	Hydrothermal Synthesis of FeS2 as a High-Efficiency Fenton Reagent to Degrade Alachlor via Superoxide-Mediated Fe(II)/Fe(III) Cycle. *ACS Applied Materials & Interfaces*, **2015**, 7, 28534-44	9.5	140
56	Design of a highly efficient and wide pH electro-Fenton oxidation system with molecular oxygen activated by ferrous-tetrapolyphosphate complex. *Environmental Science & Technology*, **2015**, 49, 3032-9	10.3	103
55	Insight into core-shell dependent anoxic Cr(VI) removal with Fe@Fe2O3 nanowires: indispensable role of surface bound Fe(II). *ACS Applied Materials & Interfaces*, **2015**, 7, 1997-2005	9.5	110
54	Anoxic and oxic removal of humic acids with Fe@Fe2O3 core-shell nanowires: a comparative study. *Water Research*, **2014**, 52, 92-100	12.5	43
53	Fe@Fe2O3 core-shell nanowires enhanced Fenton oxidation by accelerating the Fe(III)/Fe(II) cycles. *Water Research*, **2014**, 59, 145-53	12.5	167
52	Synthesis and internal electric field dependent photoreactivity of Bi3O4Cl single-crystalline nanosheets with high {001} facet exposure percentages. *Nanoscale*, **2014**, 6, 167-71	7.7	161
51	Ferrous ions promoted aerobic simazine degradation with Fe@Fe2O3 core–shell nanowires. *Applied Catalysis B: Environmental*, **2014**, 150-151, 1-11	21.8	31
50	Efficient anoxic pollutant removal with oxygen functionalized graphitic carbon nitride under visible light. *RSC Advances*, **2014**, 4, 5553	3.7	131
49	Sustainable molecular oxygen activation with oxygen vacancies on the {001} facets of BiOCl nanosheets under solar light. *Nanoscale*, **2014**, 6, 14168-73	7.7	269
48	Dramatically enhanced aerobic atrazine degradation with Fe@Fe2O3 core-shell nanowires by tetrapolyphosphate. *Environmental Science & Technology*, **2014**, 48, 3354-62	10.3	136
47	Oxygen vacancy induced selective silver deposition on the {001} facets of BiOCl single-crystalline nanosheets for enhanced Cr(VI) and sodium pentachlorophenate removal under visible light. *Nanoscale*, **2014**, 6, 7805-10	7.7	153
46	Total aerobic destruction of azo contaminants with nanoscale zero-valent copper at neutral pH: promotion effect of in-situ generated carbon center radicals. *Water Research*, **2014**, 66, 22-30	12.5	88
45	Bismuth oxyhalide nanomaterials: layered structures meet photocatalysis. *Nanoscale*, **2014**, 6, 8473-88	7.7	655
44	Enhanced photocatalytic removal of sodium pentachlorophenate with self-doped Bi2WO6 under visible light by generating more superoxide ions. *Environmental Science & Technology*, **2014**, 48, 5823-31	10.3	198
43	Surface structure-dependent molecular oxygen activation of BiOCl single-crystalline nanosheets. *Journal of the American Chemical Society*, **2013**, 135, 15750-3	16.4	460
42	Self-doping and surface plasmon modification induced visible light photocatalysis of BiOCl. *Nanoscale*, **2013**, 5, 10573-81	7.7	207
41	Highly efficient photocatalytic removal of sodium pentachlorophenate with Bi3O4Br under visible light. *Applied Catalysis B: Environmental*, **2013**, 136-137, 112-121	21.8	265
40	Ferrous–tetrapolyphosphate complex induced dioxygen activation for toxic organic pollutants degradation. *Separation and Purification Technology*, **2013**, 120, 148-155	8.3	44

39	Synthesis and Enhanced Cr(VI) Photoreduction Property of Formate Anion Containing Graphitic Carbon Nitride. *Journal of Physical Chemistry C*, **2013**, 117, 4062-4068	3.8	114
38	Selective oxidation of benzyl alcohol into benzaldehyde over semiconductors under visible light: The case of Bi12O17Cl2 nanobelts. *Applied Catalysis B: Environmental*, **2013**, 142-143, 487-493	21.8	222
37	Core-shell structure dependent reactivity of Fe@Fe□□ nanowires on aerobic degradation of 4-chlorophenol. *Environmental Science & Technology*, **2013**, 47, 5344-52	10.3	218
36	C,N-Codoped InOOH microspheres: one-pot synthesis, growth mechanism and visible light photocatalysis. *CrystEngComm*, **2013**, 15, 721-728	3.3	19
35	Efficient removal of heavy metal ions with biopolymer template synthesized mesoporous titania beads of hundreds of micrometers size. *Environmental Science & Technology*, **2012**, 46, 419-25	10.3	169
34	Efficient Visible Light-Driven Photocatalytic Degradation of Pentachlorophenol with Bi2O3/TiO2□Bx. *Journal of Physical Chemistry C*, **2012**, 116, 17118-17123	3.8	70
33	Synthesis and facet-dependent photoreactivity of BiOCl single-crystalline nanosheets. *Journal of the American Chemical Society*, **2012**, 134, 4473-6	16.4	1158
32	Porous structure dependent photoreactivity of graphitic carbon nitride under visible light. *Journal of Materials Chemistry*, **2012**, 22, 1160-1166		378
31	Microstructure-dependent photoelectrochemical and photocatalytic properties of BiOI. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	27
30	Magnetic solid-phase extraction followed by high performance liquid chromatography for determination of hexanal and heptanal in human urine. *Analytical Methods*, **2011**, 3, 1418	3.2	24
29	Low temperature synthesis of □Bi2O3 solid spheres and their conversion to hierarchical BiOI nests via the Kirkendall effect. *CrystEngComm*, **2011**, 13, 5460	3.3	34
28	ZnO/BiOI Heterostructures: Photoinduced Charge-Transfer Property and Enhanced Visible-Light Photocatalytic Activity. *Journal of Physical Chemistry C*, **2011**, 115, 20555-20564	3.8	477
27	Visible Light Photocatalysis of BiOI and Its Photocatalytic Activity Enhancement by in Situ Ionic Liquid Modification. *Journal of Physical Chemistry C*, **2011**, 115, 14300-14308	3.8	249
26	Porous In(OH) x S y hollow nanocubes: low-temperature reaction design, shape evolution, growth mechanism, and photoluminescent property. *Journal of Nanoparticle Research*, **2011**, 13, 4121-4131	2.3	2
25	Doping iodine in CdS for pure hexagonal phase, narrower band gap, and enhanced photocatalytic activity. *Journal of Materials Research*, **2011**, 26, 710-719	2.5	3
24	First observation of visible light photocatalytic activity of carbon modified Nb2O5 nanostructures. *Journal of Materials Chemistry*, **2010**, 20, 3052		107
23	Electronic and Band Structure Tuning of Ternary Semiconductor Photocatalysts by Self Doping: The Case of BiOI. *Journal of Physical Chemistry C*, **2010**, 114, 18198-18206	3.8	179
22	Facile Microwave-Assisted Synthesis and Magnetic and Gas Sensing Properties of Fe3O4 Nanoroses. *Journal of Physical Chemistry C*, **2010**, 114, 6237-6242	3.8	132

21	One-pot template-free synthesis, formation mechanism, and lithium ions storage property of hollow SnO2 microspheres. *Journal of Solid State Electrochemistry*, **2010**, 14, 931-936	2.6	17
20	Microwave-assisted synthesis of various gallium oxyhydroxide nanorods and their controllable conversion into different gallium oxide polymorphs. *Journal of Materials Research*, **2009**, 24, 2268-2275	2.5	8
19	Low-Temperature Synthesis and High Visible-Light-Induced Photocatalytic Activity of BiOI/TiO2 Heterostructures. *Journal of Physical Chemistry C*, **2009**, 113, 7371-7378	3.8	591
18	Electrochemical Synthesis of Nanostructured Palladium of Different Morphology Directly on Gold Substrate through a Cyclic Deposition/Dissolution Route. *Journal of Physical Chemistry C*, **2009**, 113, 7200-7206	3.8	37
17	Nonaqueous Sol□Gel Synthesized Hierarchical CeO2 Nanocrystal Microspheres as Novel Adsorbents for Wastewater Treatment. *Journal of Physical Chemistry C*, **2009**, 113, 16625-16630	3.8	168
16	Efficient photocatalytic removal of NO in indoor air with hierarchical bismuth oxybromide nanoplate microspheres under visible light. *Environmental Science & Technology*, **2009**, 43, 4143-50	10.3	396
15	Selective Synthesis of FeS and FeS2Nanosheet Films on Iron Substrates as Novel Photocathodes for Tandem Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2008**, 112, 13037-13042	3.8	102
14	Generalized One-Pot Synthesis, Characterization, and Photocatalytic Activity of Hierarchical BiOX (X = Cl, Br, I) Nanoplate Microspheres. *Journal of Physical Chemistry C*, **2008**, 112, 747-753	3.8	1030
13	Generalized Preparation of Porous Nanocrystalline ZnFe2O4 Superstructures from Zinc Ferrioxalate Precursor and Its Superparamagnetic Property. *Journal of Physical Chemistry C*, **2008**, 112, 13163-13170	3.8	125
12	Efficient removal of Cr(VI) from aqueous solution with Fe@Fe2O3 core-shell nanowires. *Environmental Science & Technology*, **2008**, 42, 6955-60	10.3	251
11	SnO2@C core-shell spheres: synthesis, characterization, and performance in reversible Li-ion storage. *Journal of Materials Science*, **2008**, 43, 2778-2784	4.3	56
10	Deposition of Prussian blue on nanoporous gold film electrode and its electrocatalytic reduction of H2O2. *Journal of Solid State Electrochemistry*, **2008**, 12, 1567-1571	2.6	20
9	Direct Oxidation of Methanol on Self-Supported Nanoporous Gold Film Electrodes with High Catalytic Activity and Stability. *Chemistry of Materials*, **2007**, 19, 6065-6067	9.6	110
8	Fe@Fe2O3Core□Shell Nanowires as an Iron Reagent. 3. Their Combination with CNTs as an Effective Oxygen-Fed Gas Diffusion Electrode in a Neutral Electro-Fenton System. *Journal of Physical Chemistry C*, **2007**, 111, 14799-14803	3.8	95
7	Synthesis and Characterization of Fe□Fe2O3 Core□Shell Nanowires and Nanonecklaces. *Crystal Growth and Design*, **2007**, 7, 459-464	3.5	131
6	[email□protected]2O3 Core□Shell Nanowires as Iron Reagent. 1. Efficient Degradation of Rhodamine B by a Novel Sono-Fenton Process. *Journal of Physical Chemistry C*, **2007**, 111, 4087-4093	3.8	138
5	Controlled hydrothermal synthesis and growth mechanism of various nanostructured films of copper and silver tellurides. *Chemistry - A European Journal*, **2006**, 12, 4185-90	4.8	50
4	In situ growth of epitaxial lead iodide films composed of hexagonal single crystals. *Journal of Materials Chemistry*, **2005**, 15, 4555		76

3	Fabrication of hierarchical porous iron oxide films utilizing the Kirkendall effect. *Chemical Communications*, **2005**, 2683-5	5.8	40
2	Manipulating Excitonic Effects in Layered Bismuth Oxyhalides for Photocatalysis. *ACS ES&T Engineering*,		4
1	Strained Zero-Valent Iron for Highly Efficient Heavy Metal Removal. *Advanced Functional Materials*,2200498	19.6	1