Bingcai Pan

List of Publications by Year in Descending Order

266 papers	15,030 citations	62 h-index	113 g-index
280 ext. papers	18,423 ext. citations	10.1 avg, IF	7.16 L-index

#	Paper	IF	Citations
266	Revisiting the Heterogeneous Peroxymonosulfate Activation by MoS2: a Surface Mo Peroxymonosulfate Complex as the Major Reactive Species. *ACS ES&T Water*, **2022**, 2, 376-384		2
265	Highly efficient removal of arsenite from water by using renewable sub-5 nm Zr-Mn binary oxides confined inside gel-type ion exchanger. *Chemical Engineering Journal*, **2022**, 431, 134082	14.7	0
264	Construction of model platforms to probe the confinement effect of nanocomposite-enabled water treatment. *Chemical Engineering Journal Advances*, **2022**, 9, 100229	3.6	2
263	Metal-free biomass with abundant carbonyl groups as efficient catalyst for the activation of peroxymonosulfate and degradation of sulfamethoxazole. *Chemical Engineering Journal*, **2022**, 430, 132767	14.7	2
262	Enhanced methane production during long-term UASB operation at high organic loads as enabled by the immobilized Fungi. *Frontiers of Environmental Science and Engineering*, **2022**, 16, 1	5.8	1
261	Selective removal of organic phosphonates via coupling hyper-cross-linked resin with nanoconfined hydrated oxides. *Chemical Engineering Journal*, **2022**, 428, 132620	14.7	1
260	Metastable nano-zirconium phosphate inside gel-type ion exchanger for enhanced removal of heavy metals. *Journal of Hazardous Materials*, **2022**, 423, 127158	12.8	6
259	MnO as an Electron Shuttle between Peroxymonosulfate and Organic Pollutants: The Dominant Role of Surface Reactive Mn(IV) Species.. *Environmental Science & Technology*, **2022**,	10.3	4
258	Catalytic Aerobic Oxidation of P(I)/P(III) into P(V) over PdNi10 as a Low-Cost Alternative Catalyst Rivaling Pd. *Chemical Engineering Journal*, **2022**, 136892	14.7	
257	Self-Enhanced Selective Oxidation of Phosphonate into Phosphate by Cu(II)/HO: Performance, Mechanism, and Validation.. *Environmental Science & Technology*, **2021**,	10.3	1
256	In-situ forming Sub-2 nm hydrous iron oxide particles in MOFs for deep-treatment and high anti-interference in arsenic removal. *Chemical Engineering Journal*, **2021**, 431, 133813	14.7	0
255	Toward Selective Oxidation of Contaminants in Aqueous Systems. *Environmental Science & Technology*, **2021**, 55, 14494-14514	10.3	12
254	Weakly hydrophobic nanoconfinement by graphene aerogels greatly enhances the reactivity and ambient stability of reactivity of MIL-101-Fe in Fenton-like reaction. *Nano Research*, **2021**, 14, 2383	10	13
253	Structural Evolution of Lanthanum Hydroxides during Long-Term Phosphate Mitigation: Effect of Nanoconfinement. *Environmental Science & Technology*, **2021**, 55, 665-676	10.3	18
252	Are Free Radicals the Primary Reactive Species in Co(II)-Mediated Activation of Peroxymonosulfate? New Evidence for the Role of the Co(II)-Peroxymonosulfate Complex. *Environmental Science & Technology*, **2021**, 55, 6397-6406	10.3	29
251	Validation of pilot-scale phosphate polishing removal from surface water by lanthanum-based polymeric nanocomposite. *Chemical Engineering Journal*, **2021**, 412, 128630	14.7	5
250	Trace Co coupled with phosphate triggers efficient peroxymonosulfate activation for organic degradation. *Journal of Hazardous Materials*, **2021**, 409, 124920	12.8	17

249	The Fenton Reaction in Water Assisted by Picolinic Acid: Accelerated Iron Cycling and Co-generation of a Selective Fe-Based Oxidant. *Environmental Science & Technology*, **2021**, 55, 8299-8308	10.1	12
248	The nature and catalytic reactivity of UiO-66 supported Fe3O4 nanoparticles provide new insights into Fe-Zr dual active centers in Fenton-like reactions. *Applied Catalysis B: Environmental*, **2021**, 286, 119943	21.8	25
247	Sorption enhancement of nickel(II) from wastewater by ZIF-8 modified with poly (sodium 4-styrenesulfonate): Mechanism and kinetic study. *Chemical Engineering Journal*, **2021**, 414, 128812	14.7	15
246	Ultrasonic activation of inert poly(tetrafluoroethylene) enables piezocatalytic generation of reactive oxygen species. *Nature Communications*, **2021**, 12, 3508	17.4	33
245	N-coordinated Co containing porous carbon as catalyst with improved dispersity and stability to activate peroxymonosulfate for degradation of organic pollutants. *Chemical Engineering Journal*, **2021**, 403, 126395	14.7	28
244	Ferroelectric membrane for water purification with arsenic as model pollutant. *Chemical Engineering Journal*, **2021**, 403, 126426	14.7	2
243	Facet-dependent phosphate adsorptive reactivity by lanthanum hydroxides of different crystal structure: Role of surface hydroxyl groups. *Applied Surface Science*, **2021**, 538, 147910	6.7	7
242	Utilization of gel-type polystyrene host for immobilization of nano-sized hydrated zirconium oxides: A new strategy for enhanced phosphate removal. *Chemosphere*, **2021**, 263, 127938	8.4	17
241	Unveiling the transformation of dissolved organic matter during ozonation of municipal secondary effluent based on FT-ICR-MS and spectral analysis. *Water Research*, **2021**, 188, 116484	12.5	21
240	Enhancing the performance of Fenton-like oxidation by a dual-layer membrane: A sequential interception-oxidation process. *Journal of Hazardous Materials*, **2021**, 402, 123766	12.8	10
239	Enhanced Arsenite Removal from Silicate-containing Water by Using Redox Polymer-based Fe(III) Oxides Nanocomposite. *Water Research*, **2021**, 189, 116673	12.5	3
238	Temperature regulated adsorption and desorption of heavy metals to A-MIL-121: Mechanisms and the role of exchangeable protons. *Water Research*, **2021**, 189, 116599	12.5	24
237	Tributylhexadecylphosphonium Modification Strategy to Construct Gold Nanoprobes for the Detection of Aqueous Cr(III)-Organic Complexes. *Analytical Chemistry*, **2021**, 93, 1811-1817	7.8	5
236	Peroxydisulfate Activation and Singlet Oxygen Generation by Oxygen Vacancy for Degradation of Contaminants. *Environmental Science & Technology*, **2021**, 55, 2110-2120	10.3	52
235	Enhanced production of methane in anaerobic water treatment as mediated by the immobilized fungi. *Water Research*, **2021**, 190, 116761	12.5	6
234	Unravelling molecular transformation of dissolved effluent organic matter in UV/HO, UV/persulfate, and UV/chlorine processes based on FT-ICR-MS analysis. *Water Research*, **2021**, 199, 117158	12.5	16
233	Enhanced removal of arsenic from water by using sub-10□hm hydrated zirconium oxides confined inside gel-type anion exchanger. *Journal of Hazardous Materials*, **2021**, 414, 125505	12.8	10
232	Dual-Functionalized MIL-101(Cr) for the Selective Enrichment and Ultrasensitive Analysis of Trace Per- and Poly-fluoroalkyl Substances. *Analytical Chemistry*, **2021**, 93, 11116-11122	7.8	6

231	Photochemical Synthesis of Selenium Nanospheres of Tunable Size and Colloidal Stability with Simple Diketones. *Langmuir*, **2021**, 37, 9793-9801	4	2
230	Degradation of phosphonates in Co(II)/peroxymonosulfate process: Performance and mechanism. *Water Research*, **2021**, 202, 117397	12.5	12
229	Selective interfacial oxidation of organic pollutants in Fenton-like system mediated by Fe(III)-adsorbed carbon nanotubes. *Applied Catalysis B: Environmental*, **2021**, 292, 120193	21.8	20
228	Enhanced water decontamination from methylated arsenic by utilizing ultra-small hydrated zirconium oxides encapsulated inside gel-type anion exchanger. *Chemical Engineering Journal*, **2021**, 430, 132641	14.7	0
227	Regulation of Photosynthesis in Bloom-Forming Cyanobacteria with the Simplest Diketone. *Environmental Science & Technology*, **2021**, 55, 14173-14184	10.3	4
226	Roles of oxygen-containing functional groups of O-doped g-C3N4 in catalytic ozonation: Quantitative relationship and first-principles investigation. *Applied Catalysis B: Environmental*, **2021**, 292, 120155	21.8	38
225	Exploring mechanisms of different active species formation in heterogeneous Fenton systems by regulating iron chemical environment. *Applied Catalysis B: Environmental*, **2021**, 295, 120282	21.8	9
224	Membrane cleaning strategy via in situ oscillation driven by piezoelectricity. *Journal of Membrane Science*, **2021**, 638, 119722	9.6	2
223	Origin of the improved reactivity of MoS2 single crystal by confining lattice Fe atom in peroxymonosulfate-based Fenton-like reaction. *Applied Catalysis B: Environmental*, **2021**, 298, 120537	21.8	12
222	Scenario oriented strategies for phosphorus management by using environmental nanotechnology. *Current Opinion in Chemical Engineering*, **2021**, 34, 100720	5.4	
221	Coupling of biostimulation and bioaugmentation for enhanced bioremoval of chloroethylenes and BTEX from clayey soil. *Ecotoxicology*, **2021**, 30, 1446-1453	2.9	1
220	Opportunities for nanotechnology to enhance electrochemical treatment of pollutants in potable water and industrial wastewater a perspective. *Environmental Science: Nano*, **2020**, 7, 2178-2194	7.1	31
219	Nanoconfinement-Mediated Water Treatment: From Fundamental to Application. *Environmental Science & Technology*, **2020**, 54, 8509-8526	10.3	80
218	Enhancing the Fenton-like Catalytic Activity of nFeO by MIL-53(Cu) Support: A Mechanistic Investigation. *Environmental Science & Technology*, **2020**, 54, 5258-5267	10.3	44
217	Mesoporous polyacrylonitrile membrane with ultrahigh loading of well-dispersed Fe2O3 nanoparticles: A powerful phosphate scavenger Enabling inhibition of microbial regrowth in Treated Water. *Journal of Membrane Science*, **2020**, 603, 118048	9.6	12
216	Deep removal of arsenite from water with no need for pre-oxidation or in-line oxidation. *Chemical Engineering Journal*, **2020**, 401, 126046	14.7	8
215	Electrochemically mediated nitrate reduction on nanoconfined zerovalent iron: Properties and mechanism. *Water Research*, **2020**, 173, 115596	12.5	25
214	A preliminary exploration on Au nanoparticles-mediated colorimetric analysis of Cr(III)-carboxyl complexes in synthetic and authentic water samples. *Chemical Engineering Journal*, **2020**, 387, 124079	14.7	11

213	Metastable Zirconium Phosphate under Nanoconfinement with Superior Adsorption Capability for Water Treatment. *Advanced Functional Materials*, **2020**, 30, 1909014	15.6	27
212	Porous nanocomposites for water treatment: past, present, and future **2020**, 479-503		1
211	Molecular identification guided process design for advanced treatment of electroless nickel plating effluent. *Water Research*, **2020**, 168, 115211	12.5	15
210	Synergetic adsorption and electrochemical classified recycling of Cr(VI) and dyes in synthetic dyeing wastewater. *Chemical Engineering Journal*, **2020**, 384, 123232	14.7	32
209	Revisiting the phenanthroline and ferrozine colorimetric methods for quantification of Fe(II) in Fenton reactions. *Chemical Engineering Journal*, **2020**, 391, 123592	14.7	9
208	Occurrence and transformation of phosphonates in textile dyeing wastewater along full-scale combined treatment processes. *Water Research*, **2020**, 184, 116173	12.5	15
207	Soft Particles Enable Fast and Selective Water Transport through Graphene Oxide Membranes. *Nano Letters*, **2020**, 20, 7327-7332	11.5	19
206	New insights into the fractionation of effluent organic matter on diagnosis of key composition affecting advanced phosphate removal by Zr-based nanocomposite. *Water Research*, **2020**, 186, 116299	12.5	5
205	Selective Phosphate Removal from Water and Wastewater using Sorption: Process Fundamentals and Removal Mechanisms. *Environmental Science & Technology*, **2020**, 54, 50-66	10.3	164
204	Removal of model dyes on charged UF membranes: Experiment and simulation. *Chemosphere*, **2020**, 240, 124940	8.4	17
203	Integrating cationic metal-organic frameworks with ultrafiltration membrane for selective removal of perchlorate from Water. *Journal of Hazardous Materials*, **2020**, 381, 120961	12.8	18
202	Highly efficient photodegradation of various organic pollutants in water: Rational structural design of photocatalyst via thiol-ene click reaction. *Chemical Engineering Journal*, **2020**, 381, 122631	14.7	12
201	FeS2/H2O2 mediated water decontamination from p-arsanilic acid via coupling oxidation, adsorption and coagulation: Performance and mechanism. *Chemical Engineering Journal*, **2020**, 381, 122667	14.7	21
200	Enhanced Fenton-like Oxidation of As(III) over Ce-Ti Binary Oxide: A New Strategy to Tune Catalytic Activity via Balancing Bimolecular Adsorption Energies. *Environmental Science & Technology*, **2020**, 54, 5893-5901	10.3	15
199	Molecular-scale investigation of fluoride sorption mechanism by nanosized hydroxyapatite using F solid-state NMR spectroscopy. *Journal of Colloid and Interface Science*, **2019**, 557, 357-366	9.3	12
198	Non-radical pathway dominated catalytic oxidation of As(III) with stoichiometric HO over nanoceria. *Environment International*, **2019**, 124, 393-399	12.9	21
197	Durable activation of peroxymonosulfate mediated by Co-doped mesoporous FePO4 via charge redistribution for atrazine degradation. *Chemical Engineering Journal*, **2019**, 375, 122009	14.7	39
196	Multifunctional Piezoelectric Heterostructure of BaTiO@Graphene: Decomplexation of Cu-EDTA and Recovery of Cu. *Environmental Science & Technology*, **2019**, 53, 8342-8351	10.3	32

195	Fluoride uptake by three lanthanum based nanomaterials: Behavior and mechanism dependent upon lanthanum species. *Science of the Total Environment*, **2019**, 683, 609-616	10.2	17
194	Analysis of trace phosphonates in authentic water samples by pre-methylation and LC-Orbitrap MS/MS. *Water Research*, **2019**, 161, 78-88	12.5	23
193	Bacterial cellulose derived paper-like purifier with multifunctionality for water decontamination. *Chemical Engineering Journal*, **2019**, 371, 730-737	14.7	32
192	Development of Fe-doped g-CN/graphite mediated peroxymonosulfate activation for degradation of aromatic pollutants via nonradical pathway. *Science of the Total Environment*, **2019**, 675, 62-72	10.2	62
191	Effect of 3-D distribution of ZVI nanoparticles confined in polymeric anion exchanger on EDTA-chelated Cu(II) removal. *Environmental Science and Pollution Research*, **2019**, 26, 10013-10022	5.1	5
190	Singlet oxygen mediated iron-based Fenton-like catalysis under nanoconfinement. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 6659-6664	11.5	188
189	In situ remediation of subsurface contamination: opportunities and challenges for nanotechnology and advanced materials. *Environmental Science: Nano*, **2019**, 6, 1283-1302	7.1	38
188	Nanoconfined Hydrated Zirconium Oxide for Selective Removal of Cu(II)-Carboxyl Complexes from High-Salinity Water via Ternary Complex Formation. *Environmental Science & Technology*, **2019**, 53, 5319-5327	10.3	36
187	Transformation of dissolved organic matter during full-scale treatment of integrated chemical wastewater: Molecular composition correlated with spectral indexes and acute toxicity. *Water Research*, **2019**, 157, 472-482	12.5	61
186	Dual-functional millisphere of anion-exchanger-supported nanoceria for synergistic As(III) removal with stoichiometric H2O2: Catalytic oxidation and sorption. *Chemical Engineering Journal*, **2019**, 360, 982-989	14.7	23
185	Validation of a combined Fe(III)/UV/NaOH process for efficient removal of carboxyl complexed Ni from synthetic and authentic effluents. *Chemosphere*, **2019**, 234, 917-924	8.4	11
184	Integrating water quality and operation into prediction of water production in drinking water treatment plants by genetic algorithm enhanced artificial neural network. *Water Research*, **2019**, 164, 114888	12.5	47
183	Activation of zero-valent iron through ball-milling synthesis of hybrid Fe/FeO/FeCl microcomposite for enhanced nitrobenzene reduction. *Journal of Hazardous Materials*, **2019**, 368, 698-704	12.8	26
182	MIL-PVDF blend ultrafiltration membranes with ultrahigh MOF loading for simultaneous adsorption and catalytic oxidation of methylene blue. *Journal of Hazardous Materials*, **2019**, 365, 312-321	12.8	77
181	Unexpected Favorable Role of Ca in Phosphate Removal by Using Nanosized Ferric Oxides Confined in Porous Polystyrene Beads. *Environmental Science & Technology*, **2019**, 53, 365-372	10.3	50
180	Highly efficient removal of phosphonates from water by a combined Fe(III)/UV/co-precipitation process. *Water Research*, **2019**, 153, 21-28	12.5	29
179	Autocatalytic Decomplexation of Cu(II)-EDTA and Simultaneous Removal of Aqueous Cu(II) by UV/Chlorine. *Environmental Science & Technology*, **2019**, 53, 2036-2044	10.3	39
178	Polymer and Polymer-Based Nanocomposite Adsorbents for Water Treatment. *Springer Series on Polymer and Composite Materials*, **2019**, 93-119	0.9	5

177	Photochemical activation of seemingly inert SO in specific water environments. *Chemosphere*, **2019**, 214, 399-407	8.4	4
176	Enhanced Fe(III)-mediated Fenton oxidation of atrazine in the presence of functionalized multi-walled carbon nanotubes. *Water Research*, **2018**, 137, 37-46	12.5	128
175	Enhanced Photochemical/Electrochemical Performance of Graphene Benefited from Morphological Change as Substrate of Typical Composites. *Advanced Materials Interfaces*, **2018**, 5, 1800035	4.6	2
174	Enhanced Reactivity and Electron Selectivity of Sulfidated Zerovalent Iron toward Chromate under Aerobic Conditions. *Environmental Science & Technology*, **2018**, 52, 2988-2997	10.3	124
173	Fe(III)-Doped g-CN Mediated Peroxymonosulfate Activation for Selective Degradation of Phenolic Compounds via High-Valent Iron-Oxo Species. *Environmental Science & Technology*, **2018**, 52, 2197-2205	10.3	365
172	Enhanced Nitrobenzene reduction by zero valent iron pretreated with HO/HCl. *Chemosphere*, **2018**, 197, 494-501	8.4	17
171	Enhanced removal of Se(VI) from water via pre-corrosion of zero-valent iron using HO/HCl: Effect of solution chemistry and mechanism investigation. *Water Research*, **2018**, 133, 173-181	12.5	26
170	Multi-functional magnetic water purifier for disinfection and removal of dyes and metal ions with superior reusability. *Journal of Hazardous Materials*, **2018**, 347, 160-167	12.8	39
169	Mesoporous Ce-Ti-Zr ternary oxide millispheres for efficient catalytic ozonation in bubble column. *Chemical Engineering Journal*, **2018**, 338, 261-270	14.7	35
168	Is ozonation environmentally benign for reverse osmosis concentrate treatment? Four-level analysis on toxicity reduction based on organic matter fractionation. *Chemosphere*, **2018**, 191, 971-978	8.4	19
167	Efficient removal of EDTA-complexed Cu(II) by a combined Fe(III)/UV/alkaline precipitation process: Performance and role of Fe(II). *Chemosphere*, **2018**, 193, 1235-1242	8.4	37
166	Enhanced fluoride removal by La-doped Li/Al layered double hydroxides. *Journal of Colloid and Interface Science*, **2018**, 509, 353-359	9.3	74
165	Enhanced Defluoridation Using Novel Millisphere Nanocomposite of La-Doped Li-Al Layered Double Hydroxides Supported by Polymeric Anion Exchanger. *Scientific Reports*, **2018**, 8, 11741	4.9	20
164	A novel combined process for efficient removal of Se(VI) from sulfate-rich water: Sulfite/UV/Fe(III) coagulation. *Chemosphere*, **2018**, 211, 867-874	8.4	14
163	Enhanced chromium(VI) removal by zero-valent iron in the presence of anions and a weak magnetic field: Batch and column tests. *Chemical Engineering Journal*, **2018**, 354, 445-453	14.7	29
162	Water Decontamination from Cr(III)-Organic Complexes Based on Pyrite/HO: Performance, Mechanism, and Validation. *Environmental Science & Technology*, **2018**, 52, 10657-10664	10.3	59
161	Efficient removal of nickel(II) from high salinity wastewater by a novel PAA/ZIF-8/PVDF hybrid ultrafiltration membrane. *Water Research*, **2018**, 143, 87-98	12.5	92
160	Environmentally Friendly in Situ Regeneration of Graphene Aerogel as a Model Conductive Adsorbent. *Environmental Science & Technology*, **2018**, 52, 739-746	10.3	41

159	Improving reductive performance of zero valent iron by H2O2/HCl pretreatment: A case study on nitrate reduction. *Chemical Engineering Journal*, **2018**, 334, 2255-2263	14.7	37
158	Enhanced removal of selenate from mining effluent by HO/HCl-pretreated zero-valent iron. *Water Science and Technology*, **2018**, 78, 2404-2413	2.2	6
157	Peroxymonosulfate activation by iron(III)-tetraamidomacrocyclic ligand for degradation of organic pollutants via high-valent iron-oxo complex. *Water Research*, **2018**, 147, 233-241	12.5	93
156	A human cell panel for evaluating safe application of nano-ZrO/polymer composite in water remediation. *Ecotoxicology and Environmental Safety*, **2018**, 166, 474-481	7	5
155	Adsorption and Reduction of Cr(VI) Together with Cr(III) Sequestration by Polyaniline Confined in Pores of Polystyrene Beads. *Environmental Science & Technology*, **2018**, 52, 12602-12611	10.3	100
154	Enhanced debromination of 4-bromophenol by the UV/sulfite process: Efficiency and mechanism. *Journal of Environmental Sciences*, **2017**, 54, 231-238	6.4	31
153	Simultaneous removal of As(V) and Cr(VI) from water by macroporous anion exchanger supported nanoscale hydrous ferric oxide composite. *Chemosphere*, **2017**, 171, 126-133	8.4	42
152	Iron oxide nanoparticles confined in mesoporous silicates for arsenic sequestration: effect of the host pore structure. *Environmental Science: Nano*, **2017**, 4, 679-688	7.1	24
151	Highly efficient and environmentally benign As(III) pre-oxidation in water by using a solid redox polymer. *Chemosphere*, **2017**, 175, 300-306	8.4	10
150	Simultaneous Oxidation and Sequestration of As(III) from Water by Using Redox Polymer-Based Fe(III) Oxide Nanocomposite. *Environmental Science & Technology*, **2017**, 51, 6326-6334	10.3	91
149	Efficient Removal of Trace Se(VI) by Millimeter-Sized Nanocomposite of Zerovalent Iron Confined in Polymeric Anion Exchanger. *Industrial & Engineering Chemistry Research*, **2017**, 56, 5309-5317	3.9	17
148	Coupled Effect of Ferrous Ion and Oxygen on the Electron Selectivity of Zerovalent Iron for Selenate Sequestration. *Environmental Science & Technology*, **2017**, 51, 5090-5097	10.3	60
147	Effects of brining on the corrosion of ZVI and its subsequent As(III/V) and Se(IV/VI) removal from water. *Chemosphere*, **2017**, 170, 251-259	8.4	25
146	Rational Design of Antifouling Polymeric Nanocomposite for Sustainable Fluoride Removal from NOM-Rich Water. *Environmental Science & Technology*, **2017**, 51, 13363-13371	10.3	50
145	Efficient removal of Cr(III)-organic complexes from water using UV/Fe(III) system: Negligible Cr(VI) accumulation and mechanism. *Water Research*, **2017**, 126, 172-178	12.5	75
144	Highly Efficient Water Decontamination by Using Sub-10 nm FeOOH Confined within Millimeter-Sized Mesoporous Polystyrene Beads. *Environmental Science & Technology*, **2017**, 51, 9210-9218	10.3	55
143	Acetylacetone as an efficient electron shuttle for concerted redox conversion of arsenite and nitrate in the opposite direction. *Water Research*, **2017**, 124, 331-340	12.5	20
142	A new strategy to address the challenges of nanoparticles in practical water treatment: mesoporous nanocomposite beads via flash freezing. *Nanoscale*, **2017**, 9, 19154-19161	7.7	24

141	Advances in Sulfidation of Zerovalent Iron for Water Decontamination. *Environmental Science & Technology*, **2017**, 51, 13533-13544	10.3	145
140	Flat Graphene-Enhanced Electron Transfer Involved in Redox Reactions. *Environmental Science & Technology*, **2017**, 51, 8597-8605	10.3	33
139	Decomplexation of Cu(II)-EDTA by UV/persulfate and UV/H2O2: Efficiency and mechanism. *Applied Catalysis B: Environmental*, **2017**, 200, 439-447	21.8	123
138	Enhanced removal of EDTA-chelated Cu(II) by polymeric anion-exchanger supported nanoscale zero-valent iron. *Journal of Hazardous Materials*, **2017**, 321, 290-298	12.8	61
137	One-step removal of Cr(VI) at alkaline pH by UV/sulfite process: Reduction to Cr(III) and in situ Cr(III) precipitation. *Chemical Engineering Journal*, **2017**, 308, 791-797	14.7	158
136	Effects of organic acids of different molecular size on phosphate removal by HZO-201 nanocomposite. *Chemosphere*, **2017**, 166, 422-430	8.4	32
135	Efficient defluoridation of water using reusable nanocrystalline layered double hydroxides impregnated polystyrene anion exchanger. *Water Research*, **2016**, 102, 109-116	12.5	70
134	Enhanced HO production from ozonation activated by EDTA. *Chemical Engineering Journal*, **2016**, 288, 562-568	14.7	20
133	Arsenate Adsorption by Hydrous Ferric Oxide Nanoparticles Embedded in Cross-linked Anion Exchanger: Effect of the Host Pore Structure. *ACS Applied Materials & Interfaces*, **2016**, 8, 3012-20	9.5	65
132	Enhanced Phosphate Removal by Nanosized Hydrated La(III) Oxide Confined in Cross-linked Polystyrene Networks. *Environmental Science & Technology*, **2016**, 50, 1447-54	10.3	199
131	Fabrication of Novel Magnetic Nanoparticles of Multifunctionality for Water Decontamination. *Environmental Science & Technology*, **2016**, 50, 881-9	10.3	77
130	Biodistribution and toxicity of radio-labeled few layer graphene in mice after intratracheal instillation. *Particle and Fibre Toxicology*, **2016**, 13, 7	8.4	71
129	Chromium speciation in tannery effluent after alkaline precipitation: Isolation and characterization. *Journal of Hazardous Materials*, **2016**, 316, 169-77	12.8	73
128	Coupled Cu(II)-EDTA degradation and Cu(II) removal from acidic wastewater by ozonation: Performance, products and pathways. *Chemical Engineering Journal*, **2016**, 299, 23-29	14.7	100
127	Nanomaterials-enabled water and wastewater treatment. *NanoImpact*, **2016**, 3-4, 22-39	5.6	217
126	Temporospatial evolution and removal mechanisms of As(V) and Se(VI) in ZVI column with HO as corrosion accelerator. *Water Research*, **2016**, 106, 461-469	12.5	33
125	Surface chemistry of polymer-supported nano-hydrated ferric oxide for arsenic removal: effect of host pore structure. *Science China Chemistry*, **2015**, 58, 722-730	7.9	11
124	Ionic polymer-coated laccase with high activity and enhanced stability: application in the decolourisation of water containing AO7. *Scientific Reports*, **2015**, 5, 8253	4.9	17

123	Improved performance and prolonged lifetime of titania-based materials: sequential use as adsorbent and photocatalyst. *Science China Chemistry*, **2015**, 58, 1211-1219	7.9	4
122	Iron in non-hydroxyl radical mediated photochemical processes for dye degradation: Catalyst or inhibitor?. *Chemosphere*, **2015**, 131, 55-62	8.4	13
121	Potential of acetylacetone as a mediator for Trametes versicolor laccase in enzymatic transformation of organic pollutants. *Environmental Science and Pollution Research*, **2015**, 22, 10882-9	5.1	16
120	A new combined process for efficient removal of Cu(II) organic complexes from wastewater: Fe(III) displacement/UV degradation/alkaline precipitation. *Water Research*, **2015**, 87, 378-84	12.5	86
119	Struvite-based phosphorus recovery from the concentrated bioeffluent by using HFO nanocomposite adsorption: Effect of solution chemistry. *Chemosphere*, **2015**, 141, 227-34	8.4	20
118	Enhanced visible light responsive photocatalytic activity of TiO2-based nanocrystallites: impact of doping sequence. *RSC Advances*, **2015**, 5, 7363-7369	3.7	19
117	Preferable removal of phosphate from water using hydrous zirconium oxide-based nanocomposite of high stability. *Journal of Hazardous Materials*, **2015**, 284, 35-42	12.8	125
116	Enhanced separation of nanoscale zero-valent iron (nZVI) using polyacrylamide: Performance, characterization and implication. *Chemical Engineering Journal*, **2015**, 260, 616-622	14.7	23
115	Simultaneous organic/inorganic removal from water using a new nanocomposite adsorbent: A case study of p-nitrophenol and phosphate. *Chemical Engineering Journal*, **2015**, 268, 399-407	14.7	47
114	Self-enhanced ozonation of benzoic acid at acidic pHs. *Water Research*, **2015**, 73, 9-16	12.5	37
113	The photochemistry of carbon nanotubes and its impact on the photo-degradation of dye pollutants in aqueous solutions. *Journal of Colloid and Interface Science*, **2015**, 439, 98-104	9.3	13
112	A settling curve modeling method for quantitative description of the dispersion stability of carbon nanotubes in aquatic environments. *Journal of Environmental Sciences*, **2015**, 29, 1-10	6.4	10
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