Bingcai Pan

List of Publications by Year
in descending order

274 papers	22,136 citations	8749 75 h-index	11303 136 g-index
280 all docs	280 docs citations	280 times ranked	17029 citing authors

#	Article	IF	Citations
1	Heavy metal removal from water/wastewater by nanosized metal oxides: A review. Journal of Hazardous Materials, 2012, 211-212, 317-331.	6.5	1,767
2	Critical review in adsorption kinetic models. Journal of Zhejiang University: Science A, 2009, 10, 716-724.	1.3	1,223
3	Fe(III)-Doped g-C₃N₄ Mediated Peroxymonosulfate Activation for Selective Degradation of Phenolic Compounds via High-Valent Iron-Oxo Species. Environmental Science & Technology, 2018, 52, 2197-2205.	4.6	687
4	Polymer-supported nanocomposites for environmental application: A review. Chemical Engineering Journal, 2011, 170, 381-394.	6.6	534
5	Development of polymeric and polymer-based hybrid adsorbents for pollutants removal from waters. Chemical Engineering Journal, 2009, 151, 19-29.	6.6	463
6	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.	3.3	444
7	Selective Phosphate Removal from Water and Wastewater using Sorption: Process Fundamentals and Removal Mechanisms. Environmental Science & Technology, 2020, 54, 50-66.	4.6	437
8	Nanomaterials-enabled water and wastewater treatment. NanoImpact, 2016, 3-4, 22-39.	2.4	286
9	Application potential of carbon nanotubes in water treatment: A review. Journal of Environmental Sciences, 2013, 25, 1263-1280.	3.2	280
10	Development of polymer-based nanosized hydrated ferric oxides (HFOs) for enhanced phosphate removal from waste effluents. Water Research, 2009, 43, 4421-4429.	5.3	275
11	Mathematically modeling fixed-bed adsorption in aqueous systems. Journal of Zhejiang University: Science A, 2013, 14, 155-176.	1.3	274
12	Enhanced Phosphate Removal by Nanosized Hydrated La(III) Oxide Confined in Cross-linked Polystyrene Networks. Environmental Science & Technology, 2016, 50, 1447-1454.	4.6	265
13	Peroxydisulfate Activation and Singlet Oxygen Generation by Oxygen Vacancy for Degradation of Contaminants. Environmental Science & Technology, 2021, 55, 2110-2120.	4.6	252
14	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.	6.6	251
15	Highly efficient removal of heavy metals by polymer-supported nanosized hydrated Fe(III) oxides: Behavior and XPS study. Water Research, 2010, 44, 815-824.	5.3	233
16	Advances in Sulfidation of Zerovalent Iron for Water Decontamination. Environmental Science & Technology, 2017, 51, 13533-13544.	4.6	231
17	Enhanced Fe(III)-mediated Fenton oxidation of atrazine in the presence of functionalized multi-walled carbon nanotubes. Water Research, 2018, 137, 37-46.	5.3	231
18	Nitrate reduction using nanosized zero-valent iron supported by polystyrene resins: Role of surface functional groups. Water Research, 2011, 45, 2191-2198.	5.3	213

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19	Nanoconfinement-Mediated Water Treatment: From Fundamental to Application. Environmental Science & Technology, 2020, 54, 8509-8526.	4.6	209
20	Selective Removal of Cu(II) Ions by Using Cation-exchange Resin-Supported Polyethyleneimine (PEI) Nanoclusters. Environmental Science & Technology, 2010, 44, 3508-3513.	4.6	207
21	Enhanced Reactivity and Electron Selectivity of Sulfidated Zerovalent Iron toward Chromate under Aerobic Conditions. Environmental Science & Technology, 2018, 52, 2988-2997.	4.6	207
22	Enhanced Removal of Fluoride by Polystyrene Anion Exchanger Supported Hydrous Zirconium Oxide Nanoparticles. Environmental Science & Technology, 2013, 47, 9347-9354.	4.6	198
23	Removal of selenium from water with nanoscale zero-valent iron: Mechanisms of intraparticle reduction of Se(IV). Water Research, 2015, 71, 274-281.	5.3	195
24	Decomplexation of Cu(II)-EDTA by UV/persulfate and UV/H2O2: Efficiency and mechanism. Applied Catalysis B: Environmental, 2017, 200, 439-447.	10.8	185
25	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.	4.6	172
26	Formation of lepidocrocite (Î³-FeOOH) from oxidation of nanoscale zero-valent iron (nZVI) in oxygenated water. RSC Advances, 2014, 4, 57377-57382.	1.7	170
27	Sorption Enhancement of Lead Ions from Water by Surface Charged Polystyrene-Supported Nano-Zirconium Oxide Composites. Environmental Science & Technology, 2013, 47, 6536-6544.	4.6	167
28	Preferable removal of phosphate from water using hydrous zirconium oxide-based nanocomposite of high stability. Journal of Hazardous Materials, 2015, 284, 35-42.	6.5	166
29	Use of hydrous manganese dioxide as a potential sorbent for selective removal of lead, cadmium, and zinc ions from water. Journal of Colloid and Interface Science, 2010, 349, 607-612.	5.0	162
30	Peroxymonosulfate activation by iron(III)-tetraamidomacrocyclic ligand for degradation of organic pollutants via high-valent iron-oxo complex. Water Research, 2018, 147, 233-241.	5.3	161
31	Ultrasonic activation of inert poly(tetrafluoroethylene) enables piezocatalytic generation of reactive oxygen species. Nature Communications, 2021, 12, 3508.	5.8	153
32	Effect of effluent organic matter on the adsorption of perfluorinated compounds onto activated carbon. Journal of Hazardous Materials, 2012, 225-226, 99-106.	6.5	151
33	New Strategy To Enhance Phosphate Removal from Water by Hydrous Manganese Oxide. Environmental Science & Technology, 2014, 48, 5101-5107.	4.6	148
34	Synthesis of Highly Selective Magnetic Mesoporous Adsorbent. Journal of Physical Chemistry C, 2009, 113, 9804-9813.	1.5	145
35	Toward Selective Oxidation of Contaminants in Aqueous Systems. Environmental Science & Technology, 2021, 55, 14494-14514.	4.6	145
36	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.	5.3	143

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37	Selective heavy metals removal from waters by amorphous zirconium phosphate: Behavior and mechanism. Water Research, 2007, 41, 3103-3111.	5.3	142
38	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.	6.6	140
39	Facile Fabrication of Magnetic Chitosan Beads of Fast Kinetics and High Capacity for Copper Removal. ACS Applied Materials & Interfaces, 2014, 6, 3421-3426.	4.0	138
40	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.	10.8	137
41	Are Free Radicals the Primary Reactive Species in Co(II)-Mediated Activation of Peroxymonosulfate? New Evidence for the Role of the Co(II)â€“Peroxymonosulfate Complex. Environmental Science & Technology, 2021, 55, 6397-6406.	4.6	134
42	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.	5.3	131
43	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.	6.5	131
44	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, 378-384.	5.3	128
45	Improved Adsorption of 4-Nitrophenol onto a Novel Hyper-Cross-Linked Polymer. Environmental Science & Technology, 2007, 41, 5057-5062.	4.6	126
46	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.	4.6	124
47	Highly effective removal of heavy metals by polymer-based zirconium phosphate: A case study of lead ion. Journal of Colloid and Interface Science, 2007, 310, 99-105.	5.0	117
48	Mn₂O₃ as an Electron Shuttle between Peroxymonosulfate and Organic Pollutants: The Dominant Role of Surface Reactive Mn(IV) Species. Environmental Science & Technology, 2022, 56, 4498-4506.	4.6	116
49	Sorption Enhancement of Aromatic Sulfonates onto an Aminated Hyper-Cross-Linked Polymer. Environmental Science & Technology, 2005, 39, 3308-3313.	4.6	115
50	Fabrication of polymer-supported nanosized hydrous manganese dioxide (HMO) for enhanced lead removal from waters. Science of the Total Environment, 2009, 407, 5471-5477.	3.9	111
51	Water Decontamination from Cr(III)â€“Organic Complexes Based on Pyrite/H₂O₂: Performance, Mechanism, and Validation. Environmental Science & Technology, 2018, 52, 10657-10664.	4.6	111
52	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.	5.3	109
53	Development of Fe-doped g-C3N4/graphite mediated peroxymonosulfate activation for degradation of aromatic pollutants via nonradical pathway. Science of the Total Environment, 2019, 675, 62-72.	3.9	108
54	Selective Sorption of Lead, Cadmium and Zinc Ions by a Polymeric Cation Exchanger Containing Nano-Zr(HPO₃S)₂. Environmental Science & Technology, 2008, 42, 4140-4145.	4.6	107

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55	Chromium speciation in tannery effluent after alkaline precipitation: Isolation and characterization. Journal of Hazardous Materials, 2016, 316, 169-177.	6.5	107
56	Enhanced fluoride removal by La-doped Li/Al layered double hydroxides. Journal of Colloid and Interface Science, 2018, 509, 353-359.	5.0	105
57	Enhancing the Fenton-like Catalytic Activity of nFe₂O₃ by MIL-53(Cu) Support: A Mechanistic Investigation. Environmental Science & Technology, 2020, 54, 5258-5267.	4.6	103
58	Fabrication of a New Hydrous Zr(IV) Oxide-Based Nanocomposite for Enhanced Pb(II) and Cd(II) Removal from Waters. ACS Applied Materials & Interfaces, 2013, 5, 12135-12142.	4.0	102
59	Bifunctional resin-ZVI composites for effective removal of arsenite through simultaneous adsorption and oxidation. Water Research, 2013, 47, 6064-6074.	5.3	102
60	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.	5.3	99
61	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.	5.3	98
62	Kinetics and efficiency of the hydrated electron-induced dehalogenation by the sulfite/UV process. Water Research, 2014, 62, 220-228.	5.3	95
63	Fabrication of Novel Magnetic Nanoparticles of Multifunctionality for Water Decontamination. Environmental Science & Technology, 2016, 50, 881-889.	4.6	95
64	Biodistribution and toxicity of radio-labeled few layer graphene in mice after intratracheal instillation. Particle and Fibre Toxicology, 2015, 13, 7.	2.8	93
65	Antimony(V) removal from water by hydrated ferric oxides supported by calcite sand and polymeric anion exchanger. Journal of Environmental Sciences, 2014, 26, 307-314.	3.2	88
66	Coupled Effect of Ferrous Ion and Oxygen on the Electron Selectivity of Zerovalent Iron for Selenate Sequestration. Environmental Science & Technology, 2017, 51, 5090-5097.	4.6	88
67	Unexpected Favorable Role of Ca²⁺ in Phosphate Removal by Using Nanosized Ferric Oxides Confined in Porous Polystyrene Beads. Environmental Science & Technology, 2019, 53, 365-372.	4.6	88
68	Efficient defluoridation of water using reusable nanocrystalline layered double hydroxides impregnated polystyrene anion exchanger. Water Research, 2016, 102, 109-116.	5.3	87
69	Acid and organic resistant nano-hydrated zirconium oxide (HZO)/polystyrene hybrid adsorbent for arsenic removal from water. Chemical Engineering Journal, 2014, 248, 290-296.	6.6	85
70	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, 3012-3020.	4.0	85
71	Enhanced removal of EDTA-chelated Cu(II) by polymeric anion-exchanger supported nanoscale zero-valent iron. Journal of Hazardous Materials, 2017, 321, 290-298.	6.5	85
72	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.	4.6	84

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73	Unravelling molecular transformation of dissolved effluent organic matter in UV/H2O2, UV/persulfate, and UV/chlorine processes based on FT-ICR-MS analysis. Water Research, 2021, 199, 117158.	5.3	84
74	Efficient As(III) removal by macroporous anion exchanger-supported Feâ€“Mn binary oxide: Behavior and mechanism. Chemical Engineering Journal, 2012, 193-194, 131-138.	6.6	81
75	Selective removal of phosphate in waters using a novel of cation adsorbent: Zirconium phosphate (ZrP) behavior and mechanism. Chemical Engineering Journal, 2013, 221, 315-321.	6.6	79
76	Autocatalytic Decomplexation of Cu(II)â€“EDTA and Simultaneous Removal of Aqueous Cu(II) by UV/Chlorine. Environmental Science & Technology, 2019, 53, 2036-2044.	4.6	79
77	Modeling batch and column phosphate removal by hydrated ferric oxide-based nanocomposite using response surface methodology and artificial neural network. Chemical Engineering Journal, 2014, 249, 111-120.	6.6	77
78	Spherical polystyrene-supported chitosan thin film of fast kinetics and high capacity for copper removal. Journal of Hazardous Materials, 2014, 276, 295-301.	6.5	77
79	Rational Design of Antifouling Polymeric Nanocomposite for Sustainable Fluoride Removal from NOM-Rich Water. Environmental Science & Technology, 2017, 51, 13363-13371.	4.6	77
80	Synergetic adsorption and electrochemical classified recycling of Cr(VI) and dyes in synthetic dyeing wastewater. Chemical Engineering Journal, 2020, 384, 123232.	6.6	76
81	Enhanced adsorption of p-nitroaniline from water by a carboxylated polymeric adsorbent. Separation and Purification Technology, 2007, 57, 250-256.	3.9	74
82	Hydrous ferric oxideâ€“resin nanocomposites of tunable structure for arsenite removal: Effect of the host pore structure. Journal of Hazardous Materials, 2011, 198, 241-246.	6.5	74
83	Opportunities for nanotechnology to enhance electrochemical treatment of pollutants in potable water and industrial wastewater â€" a perspective. Environmental Science: Nano, 2020, 7, 2178-2194.	2.2	74
84	Effective removal of effluent organic matter (EfOM) from bio-treated coking wastewater by a recyclable aminated hyper-cross-linked polymer. Water Research, 2013, 47, 4730-4738.	5.3	73
85	Durable activation of peroxymonosulfate mediated by Co-doped mesoporous FePO4 via charge redistribution for atrazine degradation. Chemical Engineering Journal, 2019, 375, 122009.	6.6	73
86	Application of an effective method in predicting breakthrough curves of fixed-bed adsorption onto resin adsorbent. Journal of Hazardous Materials, 2005, 124, 74-80.	6.5	72
87	Degradation of phosphonates in Co(II)/peroxymonosulfate process: Performance and mechanism. Water Research, 2021, 202, 117397.	5.3	72
88	Adsorptive removal of phenol from aqueous phase by using a porous acrylic ester polymer. Journal of Hazardous Materials, 2008, 157, 293-299.	6.5	71
89	Spherical polystyrene-supported nano-Fe3O4 of high capacity and low-field separation for arsenate removal from water. Journal of Hazardous Materials, 2012, 243, 319-325.	6.5	70
90	Highly Efficient Water Decontamination by Using Sub-10 nm FeOOH Confined within Millimeter-Sized Mesoporous Polystyrene Beads. Environmental Science & Technology, 2017, 51, 9210-9218.	4.6	70

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91	Multifunctional Piezoelectric Heterostructure of BaTiO₃@Graphene: Decomplexation of Cu-EDTA and Recovery of Cu. Environmental Science & Technology, 2019, 53, 8342-8351.	4.6	70
92	Overturned Loading of Inert CeO₂to Active Co₃O₄for Unusually Improved Catalytic Activity in Fentonâ€Like Reactions. Angewandte Chemie - International Edition, 2022, 61, .	7.2	70
93	Selective interfacial oxidation of organic pollutants in Fenton-like system mediated by Fe(III)-adsorbed carbon nanotubes. Applied Catalysis B: Environmental, 2021, 292, 120193.	10.8	69
94	Arsenate Removal from Aqueous Media by Nanosized Hydrated Ferric Oxide (HFO)-Loaded Polymeric Sorbents: Effect of HFO Loadings. Industrial & Engineering Chemistry Research, 2008, 47, 3957-3962.	1.8	66
95	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.	4.6	66
96	Highly efficient removal of phosphonates from water by a combined Fe(III)/UV/co-precipitation process. Water Research, 2019, 153, 21-28.	5.3	66
97	Adsorption of Pb2+, Zn2+, and Cd2+ from waters by amorphous titanium phosphate. Journal of Colloid and Interface Science, 2008, 318, 160-166.	5.0	65
98	<i>In situ</i>remediation of subsurface contamination: opportunities and challenges for nanotechnology and advanced materials. Environmental Science: Nano, 2019, 6, 1283-1302.	2.2	65
99	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.	10.8	65
100	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.	4.2	63
101	Preparation of polymer-supported hydrated ferric oxide based on Donnan membrane effect and its application for arsenic removal. Science in China Series B: Chemistry, 2008, 51, 379-385.	0.8	61
102	Electrochemically mediated nitrate reduction on nanoconfined zerovalent iron: Properties and mechanism. Water Research, 2020, 173, 115596.	5.3	60
103	Visible Light Photocatalytic Degradation of RhB by Polymer-CdS Nanocomposites: Role of the Host Functional Groups. ACS Applied Materials & Interfaces, 2012, 4, 3938-3943.	4.0	58
104	A comparative study on Pb2+, Zn2+ and Cd2+ sorption onto zirconium phosphate supported by a cation exchanger. Journal of Hazardous Materials, 2008, 152, 469-475.	6.5	57
105	Assessment on the removal of dimethyl phthalate from aqueous phase using a hydrophilic hyper-cross-linked polymer resin NDA-702. Journal of Colloid and Interface Science, 2007, 311, 382-390.	5.0	56
106	Equilibrium and heat of adsorption of diethyl phthalate on heterogeneous adsorbents. Journal of Colloid and Interface Science, 2008, 325, 41-47.	5.0	56
107	Effect of sulfate on Cu(II) sorption to polymer-supported nano-iron oxides: Behavior and XPS study. Journal of Colloid and Interface Science, 2012, 366, 37-43.	5.0	56
108	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.	4.2	56

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109	Preparation and preliminary assessment of polymer-supported zirconium phosphate for selective lead removal from contaminated water. Water Research, 2006, 40, 2938-2946.	5.3	55
110	Structural, photophysical and photocatalytic properties of new Bi2SbVO7 under visible light irradiation. Physical Chemistry Chemical Physics, 2009, 11, 6289.	1.3	55
111	Immobilization of polyethylenimine nanoclusters onto a cation exchange resin through self-crosslinking for selective Cu(II) removal. Journal of Hazardous Materials, 2011, 190, 1037-1044.	6.5	55
112	Efficient Removal of Aromatic Sulfonates from Wastewater by a Recyclable Polymer: 2-Naphthalene Sulfonate as a Representative Pollutant. Environmental Science & Technology, 2008, 42, 7411-7416.	4.6	54
113	New insights into nanocomposite adsorbents for water treatment: A case study of polystyrene-supported zirconium phosphate nanoparticles for lead removal. Journal of Nanoparticle Research, 2011, 13, 5355-5364.	0.8	54
114	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.	6.6	54
115	Environmentally Friendly in Situ Regeneration of Graphene Aerogel as a Model Conductive Adsorbent. Environmental Science & Technology, 2018, 52, 739-746.	4.6	54
116	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.	10.8	53
117	Adsorption of phenolic compounds from aqueous solution onto a macroporous polymer and its aminated derivative: isotherm analysis. Journal of Hazardous Materials, 2005, 121, 233-241.	6.5	52
118	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.	6.5	52
119	Structural, photophysical and photocatalytic properties of novel Bi2AlVO7. Journal of Hazardous Materials, 2009, 164, 781-789.	6.5	51
120	Enhanced debromination of 4-bromophenol by the UV/sulfite process: Efficiency and mechanism. Journal of Environmental Sciences, 2017, 54, 231-238.	3.2	51
121	Mesoporous Ce-Ti-Zr ternary oxide millispheres for efficient catalytic ozonation in bubble column. Chemical Engineering Journal, 2018, 338, 261-270.	6.6	51
122	Activation of zero-valent iron through ball-milling synthesis of hybrid Fe0/Fe3O4/FeCl2 microcomposite for enhanced nitrobenzene reduction. Journal of Hazardous Materials, 2019, 368, 698-704.	6.5	50
123	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.	6.6	50
124	Structural Evolution of Lanthanum Hydroxides during Long-Term Phosphate Mitigation: Effect of Nanoconfinement. Environmental Science & Technology, 2021, 55, 665-676.	4.6	50
125	Selective Adsorption of Cd(II) and Zn(II) Ions by Nano-Hydrous Manganese Dioxide (HMO)-Encapsulated Cation Exchanger. Industrial & Engineering Chemistry Research, 2010, 49, 7574-7579.	1.8	48
126	Bacterial cellulose derived paper-like purifier with multifunctionality for water decontamination. Chemical Engineering Journal, 2019, 371, 730-737.	6.6	48

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127	Metastable Zirconium Phosphate under Nanoconfinement with Superior Adsorption Capability for Water Treatment. Advanced Functional Materials, 2020, 30, 1909014.	7.8	48
128	Improving reductive performance of zero valent iron by H_2O_2/HCl pretreatment: A case study on nitrate reduction. Chemical Engineering Journal, 2018, 334, 2255-2263.	6.6	47
129	Diketone-Mediated Photochemical Processes for Target-Selective Degradation of Dye Pollutants. Environmental Science and Technology Letters, 2014, 1, 167-171.	3.9	46
130	Self-enhanced ozonation of benzoic acid at acidic pHs. Water Research, 2015, 73, 9-16.	5.3	46
131	Temperature regulated adsorption and desorption of heavy metals to A-MIL-121: Mechanisms and the role of exchangeable protons. Water Research, 2021, 189, 116599.	5.3	46
132	Trace Co^{2+} coupled with phosphate triggers efficient peroxymonosulfate activation for organic degradation. Journal of Hazardous Materials, 2021, 409, 124920.	6.5	46
133	Fluoride uptake by three lanthanum based nanomaterials: Behavior and mechanism dependent upon lanthanum species. Science of the Total Environment, 2019, 683, 609-616.	3.9	45
134	Catalytic dechlorination of monochlorobenzene by Pd/Fe nanoparticles immobilized within a polymeric anion exchanger. Chemical Engineering Journal, 2011, 178, 161-167.	6.6	44
135	Photodegradation of Acid Orange 7 in a UV/acetylacetone process. Chemosphere, 2013, 93, 2877-2882.	4.2	44
136	Temporospatial evolution and removal mechanisms of As(V) and Se(VI) in ZVI column with H_2O_2 as corrosion accelerator. Water Research, 2016, 106, 461-469.	5.3	44
137	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.	4.2	44
138	Enhanced removal of Se(VI) from water via pre-corrosion of zero-valent iron using H_2O_2/HCl: Effect of solution chemistry and mechanism investigation. Water Research, 2018, 133, 173-181.	5.3	44
139	Effects of organic acids of different molecular size on phosphate removal by HZO-201 nanocomposite. Chemosphere, 2017, 166, 422-430.	4.2	43
140	Impregnating titanium phosphate nanoparticles onto a porous cation exchanger for enhanced lead removal from waters. Journal of Colloid and Interface Science, 2009, 331, 453-457.	5.0	42
141	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.	6.6	42
142	Analysis of trace phosphonates in authentic water samples by pre-methylation and LC-Orbitrap MS/MS. Water Research, 2019, 161, 78-88.	5.3	42
143	FeS_2/H_2O_2 mediated water decontamination from p-arsanilic acid via coupling oxidation, adsorption and coagulation: Performance and mechanism. Chemical Engineering Journal, 2020, 381, 122667.	6.6	42
144	Enhanced Defluoridation Using Novel Millisphere Nanocomposite of La-Doped Li-Al Layered Double Hydroxides Supported by Polymeric Anion Exchanger. Scientific Reports, 2018, 8, 11741.	1.6	41

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145	Modeling synergistic adsorption of phenol/aniline mixtures in the aqueous phase onto porous polymer adsorbents. Journal of Colloid and Interface Science, 2007, 306, 216-221.	5.0	40
146	A thermally stable mesoporous ZrO2â€“CeO2â€“TiO2 visible light photocatalyst. Chemical Engineering Journal, 2013, 229, 118-125.	6.6	40
147	Exploring mechanisms of different active species formation in heterogeneous Fenton systems by regulating iron chemical environment. Applied Catalysis B: Environmental, 2021, 295, 120282.	10.8	40
148	Flat Graphene-Enhanced Electron Transfer Involved in Redox Reactions. Environmental Science & Technology, 2017, 51, 8597-8605.	4.6	39
149	Self-Enhanced Selective Oxidation of Phosphonate into Phosphate by Cu(II)/H₂O₂: Performance, Mechanism, and Validation. Environmental Science & Technology, 2022, 56, 634-641.	4.6	39
150	Non-hydroxyl radical mediated photochemical processes for dye degradation. Physical Chemistry Chemical Physics, 2014, 16, 7571-7577.	1.3	38
151	Metastable nano-zirconium phosphate inside gel-type ion exchanger for enhanced removal of heavy metals. Journal of Hazardous Materials, 2022, 423, 127158.	6.5	38
152	Surface Chemistry of Nanosized Hydrated Ferric Oxide Encapsulated Inside Porous Polymer: Modeling and Experimental Studies. Journal of Physical Chemistry C, 2013, 117, 6201-6209.	1.5	37
153	Removal enhancement of 1-naphthol and 1-naphthylamine in single and binary aqueous phase by acidâ€“basic interactions with polymer adsorbents. Journal of Hazardous Materials, 2008, 158, 293-299.	6.5	36
154	Adsorptive selenite removal from water using a nano-hydrated ferric oxides (HFOs)/polymer hybrid adsorbent. Journal of Environmental Monitoring, 2010, 12, 305-310.	2.1	36
155	A fabrication strategy for nanosized zero valent iron (nZVI)â€“polymeric anion exchanger composites with tunable structure for nitrate reduction. Journal of Hazardous Materials, 2012, 233-234, 1-6.	6.5	36
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157	Sorption enhancement of nickel(II) from wastewater by ZIF-8 modified with poly (sodium) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	6.6	36
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