

Chuanyi Wang

List of Publications by Year in descending order

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545
papers

42,387
citations

1888

102
h-index

3822

178
g-index

550
all docs

550
docs citations

550
times ranked

37633
citing authors

#	ARTICLE	IF	CITATIONS
1	Silver nanoparticles: Green synthesis and their antimicrobial activities. <i>Advances in Colloid and Interface Science</i> , 2009, 145, 83-96.	7.0	3,074
2	Silver Colloid Nanoparticles: Synthesis, Characterization, and Their Antibacterial Activity. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16248-16253.	1.2	2,012
3	Aquatic arsenic: Toxicity, speciation, transformations, and remediation. <i>Environment International</i> , 2009, 35, 743-759.	4.8	913
4	Synthesis and photocatalytic activity of ferrites under visible light: A review. <i>Separation and Purification Technology</i> , 2012, 87, 1-14.	3.9	667
5	A review of the influence of treatment strategies on antibiotic resistant bacteria and antibiotic resistance genes. <i>Chemosphere</i> , 2016, 150, 702-714.	4.2	557
6	Silver polymeric nanocomposites as advanced antimicrobial agents: Classification, synthetic paths, applications, and perspectives. <i>Advances in Colloid and Interface Science</i> , 2011, 166, 119-135.	7.0	547
7	Effective photocatalytic H ₂ O ₂ production under visible light irradiation at g-C ₃ N ₄ modulated by carbon vacancies. <i>Applied Catalysis B: Environmental</i> , 2016, 190, 26-35.	10.8	505
8	Selective photocatalytic N ₂ fixation dependent on g-C ₃ N ₄ induced by nitrogen vacancies. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23435-23441.	5.2	495
9	Self-Assembly of Perylene Imide Molecules into 1D Nanostructures: Methods, Morphologies, and Applications. <i>Chemical Reviews</i> , 2015, 115, 11967-11998.	23.0	474
10	Potassium ferrate(VI): an environmentally friendly oxidant. <i>Journal of Environmental Management</i> , 2002, 6, 143-156.	1.7	415
11	Adsorption of arsenate and arsenite on titanium dioxide suspensions. <i>Journal of Colloid and Interface Science</i> , 2004, 278, 270-275.	5.0	382
12	Water-stable metal-organic frameworks for aqueous removal of heavy metals and radionuclides: A review. <i>Chemosphere</i> , 2018, 209, 783-800.	4.2	366
13	Natural inorganic nanoparticles " formation, fate, and toxicity in the environment. <i>Chemical Society Reviews</i> , 2015, 44, 8410-8423.	18.7	342
14	Removal of microplastics from the environment. A review. <i>Environmental Chemistry Letters</i> , 2020, 18, 807-828.	8.3	341
15	Ferrates: Greener Oxidants with Multimodal Action in Water Treatment Technologies. <i>Accounts of Chemical Research</i> , 2015, 48, 182-191.	7.6	339
16	Organic-coated silver nanoparticles in biological and environmental conditions: Fate, stability and toxicity. <i>Advances in Colloid and Interface Science</i> , 2014, 204, 15-34.	7.0	320
17	Water depollution using metal-organic frameworks-catalyzed advanced oxidation processes: A review. <i>Journal of Hazardous Materials</i> , 2019, 372, 3-16.	6.5	318
18	Clay mineral adsorbents for heavy metal removal from wastewater: a review. <i>Environmental Chemistry Letters</i> , 2019, 17, 629-654.	8.3	314

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19	Nitrogen-doped graphene and graphene quantum dots: A review on synthesis and applications in energy, sensors and environment. <i>Advances in Colloid and Interface Science</i> , 2018, 259, 44-64.	7.0	313
20	Electrocatalytic destruction of the antibiotic tetracycline in aqueous medium by electrochemical advanced oxidation processes: Effect of electrode materials. <i>Applied Catalysis B: Environmental</i> , 2013, 140-141, 92-97.	10.8	304
21	Photocatalytic Oxidation of Arsenic(III): Evidence of Hydroxyl Radicals. <i>Environmental Science & Technology</i> , 2005, 39, 1827-1834.	4.6	299
22	Advanced activation of persulfate by polymeric g-C ₃ N ₄ based photocatalysts for environmental remediation: A review. <i>Journal of Hazardous Materials</i> , 2021, 413, 125324.	6.5	293
23	Ferrate(VI) and ferrate(V) oxidation of organic compounds: Kinetics and mechanism. <i>Coordination Chemistry Reviews</i> , 2013, 257, 495-510.	9.5	289
24	Occurrence, transportation, monitoring and treatment of emerging micro-pollutants in waste water – A review from global views. <i>Microchemical Journal</i> , 2013, 110, 292-300.	2.3	286
25	Nitrogen-sulfur co-doped industrial graphene as an efficient peroxymonosulfate activator: Singlet oxygen-dominated catalytic degradation of organic contaminants. <i>Applied Catalysis B: Environmental</i> , 2019, 251, 335-345.	10.8	286
26	Pharmaceuticals and personal care products in waters: occurrence, toxicity, and risk. <i>Environmental Chemistry Letters</i> , 2015, 13, 381-394.	8.3	280
27	Simultaneous band-gap narrowing and carrier-lifetime prolongation of organic-inorganic trihalide perovskites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8910-8915.	3.3	269
28	Aggregation and toxicity of titanium dioxide nanoparticles in aquatic environment – A Review. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2009, 44, 1485-1495.	0.9	268
29	Humic Acid-Induced Silver Nanoparticle Formation Under Environmentally Relevant Conditions. <i>Environmental Science & Technology</i> , 2011, 45, 3895-3901.	4.6	265
30	Treatment of organic pollutants by homogeneous and heterogeneous Fenton reaction processes. <i>Environmental Chemistry Letters</i> , 2018, 16, 947-967.	8.3	254
31	Oxidation of inorganic contaminants by ferrates (VI, V, and IV) – kinetics and mechanisms: A review. <i>Journal of Environmental Management</i> , 2011, 92, 1051-1073.	3.8	238
32	Removal of Nitric Oxide through Visible Light Photocatalysis by g-C ₃ N ₄ Modified with Perylene Imides. <i>ACS Catalysis</i> , 2016, 6, 6511-6519.	5.5	226
33	Oxidation of Sulfonamide Antimicrobials by Ferrate(VI) [FeVIO ₄ ²⁻]. <i>Environmental Science & Technology</i> , 2006, 40, 7222-7227.	4.6	215
34	Review on High Valent Fe ^{VI} (Ferrate): A Sustainable Green Oxidant in Organic Chemistry and Transformation of Pharmaceuticals. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 18-34.	3.2	214
35	CO ₂ photoreduction with H ₂ O vapor on highly dispersed CeO ₂ /TiO ₂ catalysts: Surface species and their reactivity. <i>Journal of Catalysis</i> , 2016, 337, 293-302.	3.1	212
36	Degradation of atrazine by ZnxCu _{1-x} Fe ₂ O ₄ nanomaterial-catalyzed sulfite under UV-vis light irradiation: Green strategy to generate SO ₄ ²⁻ . <i>Applied Catalysis B: Environmental</i> , 2018, 221, 380-392.	10.8	212

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37	Management on the location and concentration of Ti ³⁺ in anatase TiO ₂ for defects-induced visible-light photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 354-362.	10.8	211
38	Lignocellulosic Biomass Transformations via Greener Oxidative Pretreatment Processes: Access to Energy and Value-Added Chemicals. <i>Frontiers in Chemistry</i> , 2018, 6, 141.	1.8	208
39	Degradation of fluoroquinolone antibiotics by ferrate(VI): Effects of water constituents and oxidized products. <i>Water Research</i> , 2016, 103, 48-57.	5.3	206
40	Oxidation of Inorganic Compounds by Ferrate(VI) and Ferrate(V): One-Electron and Two-Electron Transfer Steps. <i>Environmental Science & Technology</i> , 2010, 44, 5148-5152.	4.6	198
41	Plasmonic Ag-TiO ₂ ^x nanocomposites for the photocatalytic removal of NO under visible light with high selectivity: The role of oxygen vacancies. <i>Applied Catalysis B: Environmental</i> , 2017, 204, 67-77.	10.8	197
42	Highly efficient and selective removal of mercury ions using hyperbranched polyethylenimine functionalized carboxymethyl chitosan composite adsorbent. <i>Chemical Engineering Journal</i> , 2019, 358, 253-263.	6.6	196
43	Two-channel photocatalytic production of H ₂ O ₂ over g-C ₃ N ₄ nanosheets modified with perylene imides. <i>Journal of Catalysis</i> , 2017, 352, 274-281.	3.1	193
44	Carbon vacancy regulated photoreduction of NO to N ₂ over ultrathin g-C ₃ N ₄ nanosheets. <i>Applied Catalysis B: Environmental</i> , 2017, 218, 515-524.	10.8	190
45	Oxidative transformations of environmental pharmaceuticals by Cl ₂ , ClO ₂ , O ₃ , and Fe(VI): Kinetics assessment. <i>Chemosphere</i> , 2008, 73, 1379-1386.	4.2	186
46	Ferrate(VI)-Induced Arsenite and Arsenate Removal by In Situ Structural Incorporation into Magnetic Iron(III) Oxide Nanoparticles. <i>Environmental Science & Technology</i> , 2013, 47, 3283-3292.	4.6	185
47	Nonylphenol, octylphenol, and bisphenol-A in the aquatic environment: A review on occurrence, fate, and treatment. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2009, 44, 423-442.	0.9	184
48	Mesoporous zinc ferrite: Synthesis, characterization, and photocatalytic activity with H ₂ O ₂ /visible light. <i>Journal of Hazardous Materials</i> , 2012, 211-212, 95-103.	6.5	183
49	Destruction of microcystins by conventional and advanced oxidation processes: A review. <i>Separation and Purification Technology</i> , 2012, 91, 3-17.	3.9	180
50	Plasmonic Hot Electrons from Oxygen Vacancies for Infrared Light-Driven Catalytic CO ₂ Reduction on Bi ₂ O ₃ . <i>Angewandte Chemie - International Edition</i> , 2021, 60, 910-916.	7.2	171
51	Three-dimensional open CoMoO _x /CoMoS _x /CoS _x nanobox electrocatalysts for efficient oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118605.	10.8	170
52	Size effect of Pt co-catalyst on photocatalytic efficiency of g-C ₃ N ₄ for hydrogen evolution. <i>Applied Surface Science</i> , 2019, 464, 36-42.	3.1	166
53	Degradation of aqueous 2,4,4'-Trihydroxybenzophenone by persulfate activated with nitrogen doped carbonaceous materials and the formation of dimer products. <i>Water Research</i> , 2018, 143, 176-187.	5.3	165
54	Silane-modified halloysite/Fe ₃ O ₄ nanocomposites: Simultaneous removal of Cr(VI) and Sb(V) and positive effects of Cr(VI) on Sb(V) adsorption. <i>Chemical Engineering Journal</i> , 2017, 311, 236-246.	6.6	158

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55	Interactions of Aqueous Ag ⁺ with Fulvic Acids: Mechanisms of Silver Nanoparticle Formation and Investigation of Stability. <i>Environmental Science & Technology</i> , 2013, 47, 757-764.	4.6	156
56	Cobalt ferrite nanoparticles with controlled composition-peroxymonosulfate mediated degradation of 2-phenylbenzimidazole-5-sulfonic acid. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 266-279.	10.8	155
57	Accelerated Oxidation of Organic Contaminants by Ferrate(VI): The Overlooked Role of Reducing Additives. <i>Environmental Science & Technology</i> , 2018, 52, 11319-11327.	4.6	150
58	Ultralow Ru doping induced interface engineering in MOF derived ruthenium-cobalt oxide hollow nanobox for efficient water oxidation electrocatalysis. <i>Chemical Engineering Journal</i> , 2021, 420, 129805.	6.6	149
59	Transformation of Polycyclic Aromatic Hydrocarbons and Formation of Environmentally Persistent Free Radicals on Modified Montmorillonite: The Role of Surface Metal Ions and Polycyclic Aromatic Hydrocarbon Molecular Properties. <i>Environmental Science & Technology</i> , 2018, 52, 5725-5733.	4.6	148
60	Magnetic graphene-carbon nanotube iron nanocomposites as adsorbents and antibacterial agents for water purification. <i>Advances in Colloid and Interface Science</i> , 2015, 225, 229-240.	7.0	147
61	Oxidation of Amino Acids, Peptides and Proteins by Ozone: A Review. <i>Ozone: Science and Engineering</i> , 2010, 32, 81-90.	1.4	146
62	A three-dimensional macroporous network structured chitosan/cellulose biocomposite sponge for rapid and selective removal of mercury(II) ions from aqueous solution. <i>Chemical Engineering Journal</i> , 2019, 363, 192-202.	6.6	146
63	Confining single-atom Pd on g-C ₃ N ₄ with carbon vacancies towards enhanced photocatalytic NO conversion. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119683.	10.8	142
64	Effects of Atmospheric Pressure Plasmas on Isolated and Cellular DNA—A Review. <i>International Journal of Molecular Sciences</i> , 2015, 16, 2971-3016.	1.8	140
65	Biogeochemistry of selenium. A review. <i>Environmental Chemistry Letters</i> , 2015, 13, 49-58.	8.3	140
66	Size controllable synthesis of single-crystal ferroelectric Bi ₄ Ti ₃ O ₁₂ nanosheet dominated with {0 0 1} facets toward enhanced visible-light-driven photocatalytic activities. <i>Applied Catalysis B: Environmental</i> , 2014, 156-157, 35-43.	10.8	139
67	Oxygen-doping of ZnIn ₂ S ₄ nanosheets towards boosted photocatalytic CO ₂ reduction. <i>Journal of Energy Chemistry</i> , 2021, 57, 1-9.	7.1	139
68	Facile Synthesis of Defective TiO _{2-x} Nanocrystals with High Surface Area and Tailoring Bandgap for Visible-light Photocatalysis. <i>Scientific Reports</i> , 2015, 5, 15804.	1.6	138
69	Metal-mediated oxidation of fluoroquinolone antibiotics in water: A review on kinetics, transformation products, and toxicity assessment. <i>Journal of Hazardous Materials</i> , 2018, 344, 1136-1154.	6.5	138
70	Disinfection performance of Fe(VI) in water and wastewater: a review. <i>Water Science and Technology</i> , 2007, 55, 225-232.	1.2	136
71	Formation and Stabilization of Environmentally Persistent Free Radicals Induced by the Interaction of Anthracene with Fe(III)-Modified Clays. <i>Environmental Science & Technology</i> , 2016, 50, 6310-6319.	4.6	134
72	Adsorption and removal of tetracycline from water by petroleum coke-derived highly porous activated carbon. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 1504-1512.	3.3	133

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73	Research progress in the electrochemical synthesis of ferrate(VI). <i>Electrochimica Acta</i> , 2009, 54, 2673-2683.	2.6	129
74	Selective photocatalytic CO ₂ reduction to CH ₄ over Pt/In ₂ O ₃ : Significant role of hydrogen adatom. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 544-553.	10.8	129
75	Reactivity of ferrate(VI) and ferrate(V) with amino acids. <i>Inorganic Chemistry</i> , 1991, 30, 4306-4310.	1.9	128
76	Dissociation constants of the monoprotic ferrate(VI) ion in NaCl media. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 2059-2062.	1.3	128
77	Highly efficient electrocatalytic performance based on Pt nanoflowers modified reduced graphene oxide/carbon cloth electrode. <i>Journal of Materials Chemistry</i> , 2012, 22, 13707.	6.7	126
78	Oxygen vacancies induced visible-light photocatalytic activities of CaCu ₃ Ti ₄ O ₁₂ with controllable morphologies for antibiotic degradation. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 422-432.	10.8	125
79	Strategic combination of N-doped graphene and g-C ₃ N ₄ : Efficient catalytic peroxymonosulfate-based oxidation of organic pollutants by non-radical-dominated processes. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 119005.	10.8	125
80	Adsorption of antibiotics and iopromide onto single-walled and multi-walled carbon nanotubes. <i>Chemical Engineering Journal</i> , 2014, 255, 23-27.	6.6	124
81	Oxidation of Trimethoprim by Ferrate(VI): Kinetics, Products, and Antibacterial Activity. <i>Environmental Science & Technology</i> , 2011, 45, 10575-10581.	4.6	123
82	Enhanced photocatalytic hydrogen evolution along with byproducts suppressing over Z-scheme Cd Zn ¹⁺ S/Au/g-C ₃ N ₄ photocatalysts under visible light. <i>Science Bulletin</i> , 2017, 62, 602-609.	4.3	123
83	Oxidation of nitrogen-containing pollutants by novel ferrate(VI) technology: A review. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2010, 45, 645-667.	0.9	121
84	Formation and toxicity of brominated disinfection byproducts during chlorination and chloramination of water: A review. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2014, 49, 212-228.	0.7	119
85	Ferrate(VI)-Prompted Removal of Metals in Aqueous Media: Mechanistic Delineation of Enhanced Efficiency via Metal Entrenchment in Magnetic Oxides. <i>Environmental Science & Technology</i> , 2015, 49, 2319-2327.	4.6	118
86	Selective removal of mercury ions using a chitosan-poly(vinyl alcohol) hydrogel adsorbent with three-dimensional network structure. <i>Chemical Engineering Journal</i> , 2013, 228, 232-242.	6.6	116
87	One-step electrodeposition of platinum nanoflowers and their high efficient catalytic activity for methanol electro-oxidation. <i>Electrochemistry Communications</i> , 2010, 12, 882-885.	2.3	113
88	Simultaneous determination of corticosteroids, androgens, and progesterone in river water by liquid chromatography-tandem mass spectrometry. <i>Chemosphere</i> , 2010, 78, 972-979.	4.2	111
89	Preparation and characterization of chitosan-poly(vinyl alcohol)/bentonite nanocomposites for adsorption of Hg(II) ions. <i>Chemical Engineering Journal</i> , 2014, 251, 404-412.	6.6	110
90	Enhancement of visible-light-driven photocatalytic H ₂ evolution from water over g-C ₃ N ₄ through combination with perylene diimide aggregates. <i>Applied Catalysis A: General</i> , 2015, 498, 63-68.	2.2	110

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91	Environmentally Persistent Free Radicals in Soils of Past Coking Sites: Distribution and Stabilization. <i>Environmental Science & Technology</i> , 2017, 51, 6000-6008.	4.6	110
92	Ferrate(VI) Oxidation of Aqueous Cyanide. <i>Environmental Science & Technology</i> , 1998, 32, 2608-2613.	4.6	109
93	Ferrate promoted oxidative cleavage of sulfonamides: Kinetics and product formation under acidic conditions. <i>Chemical Engineering Journal</i> , 2015, 279, 307-316.	6.6	109
94	Synergistic effect of aqueous removal of fluoroquinolones by a combined use of peroxymonosulfate and ferrate(VI). <i>Chemosphere</i> , 2017, 177, 144-148.	4.2	109
95	Improved photocatalytic NO removal activity of SrTiO ₃ by using SrCO ₃ as a new co-catalyst. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 24-34.	10.8	109
96	Oxidation of Pharmaceuticals by Ferrate(VI) in Hydrolyzed Urine: Effects of Major Inorganic Constituents. <i>Environmental Science & Technology</i> , 2019, 53, 5272-5281.	4.6	109
97	Near-infrared light to heat conversion in peroxydisulfate activation with MoS ₂ : A new photo-activation process for water treatment. <i>Water Research</i> , 2021, 190, 116720.	5.3	109
98	Ferrate(VI) Oxidation of Hydrogen Sulfide. <i>Environmental Science & Technology</i> , 1997, 31, 2486-2491.	4.6	108
99	Sulfonamides and tetracyclines in livestock wastewater. <i>Chemosphere</i> , 2013, 91, 888-894.	4.2	108
100	Interactions between silver nanoparticles and other metal nanoparticles under environmentally relevant conditions: A review. <i>Science of the Total Environment</i> , 2019, 653, 1042-1051.	3.9	108
101	Visible-Light-Assisted Electrocatalytic Oxidation of Methanol Using Reduced Graphene Oxide Modified Pt Nanoflowers-TiO ₂ Nanotube Arrays. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 17753-17761.	4.0	107
102	Reductive and oxidative degradation of iopamidol, iodinated X-ray contrast media, by Fe(III)-oxalate under UV and visible light treatment. <i>Water Research</i> , 2014, 67, 144-153.	5.3	107
103	Methodologies for the analytical determination of ferrate(VI): A Review. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2011, 46, 453-460.	0.9	106
104	Photocatalytic CO ₂ reduction over SrTiO ₃ : Correlation between surface structure and activity. <i>Applied Surface Science</i> , 2018, 447, 627-635.	3.1	105
105	Carbon quantum dots implanted CdS nanosheets: Efficient visible-light-driven photocatalytic reduction of Cr(VI) under saline conditions. <i>Applied Catalysis B: Environmental</i> , 2020, 262, 118306.	10.8	103
106	Mechanisms of oxidation of organosulfur compounds by ferrate(VI). <i>Chemosphere</i> , 2011, 82, 1083-1089.	4.2	102
107	Enhanced CO ₂ photoreduction activity of black TiO ₂ coated Cu nanoparticles under visible light irradiation: Role of metallic Cu. <i>Applied Catalysis A: General</i> , 2016, 510, 34-41.	2.2	102
108	High efficient electrocatalytic oxidation of methanol on Pt/polyindoles composite catalysts. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 3270-3279.	3.8	100

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109	Switching of semiconducting behavior from n -type to p -type induced high photocatalytic NO removal activity in g-C 3 N 4. Applied Catalysis B: Environmental, 2017, 214, 46-56.	10.8	100
110	Oxidation of Microcystin-LR by Ferrate(VI): Kinetics, Degradation Pathways, and Toxicity Assessments. Environmental Science & Technology, 2014, 48, 12164-12172.	4.6	98
111	A Bulk Boron-Based Photocatalyst for Efficient Dechlorination: K ₃ B ₆ O ₁₀ Br. Chemistry of Materials, 2014, 26, 3169-3174.	3.2	97
112	Investigation of disinfection byproducts formation in ferrate(VI) pre-oxidation of NOM and its model compounds followed by chlorination. Journal of Hazardous Materials, 2015, 292, 197-204.	6.5	97
113	Supported single-atom catalysts: synthesis, characterization, properties, and applications. Environmental Chemistry Letters, 2018, 16, 477-505.	8.3	96
114	A congruently melting and deep UV nonlinear optical material: Li3Cs2B5O10. Journal of Materials Chemistry, 2011, 21, 2890.	6.7	95
115	Mechanistic Insight into the Effect of Metal Ions on Photogeneration of Reactive Species from Dissolved Organic Matter. Environmental Science & Technology, 2019, 53, 5778-5786.	4.6	95
116	Oxidation of Sulfonamide Antibiotics of Six-Membered Heterocyclic Moiety by Ferrate(VI): Kinetics and Mechanistic Insight into SO ₂ Extrusion. Environmental Science & Technology, 2019, 53, 2695-2704.	4.6	95
117	Meso- and micro- porous composite carbons derived from humic acid for supercapacitors. Electrochimica Acta, 2014, 136, 504-512.	2.6	94
118	Enhanced oxidation of antibiotics by ferrate(VI)-sulfur(IV) system: Elucidating multi-oxidant mechanism. Chemical Engineering Journal, 2018, 341, 137-145.	6.6	90
119	Two-Dimensional Layered Zinc Silicate Nanosheets with Excellent Photocatalytic Performance for Organic Pollutant Degradation and CO ₂ Conversion. Angewandte Chemie - International Edition, 2019, 58, 8103-8108.	7.2	90
120	Iron(III) Oxide Nanoparticles in the Thermally Induced Oxidative Decomposition of Prussian Blue, Fe ₄ [Fe(CN) ₆] ₃ . Crystal Growth and Design, 2004, 4, 1317-1325.	1.4	89
121	Removal of arsenite by Fe(VI), Fe(VI)/Fe(III), and Fe(VI)/Al(III) salts: Effect of pH and anions. Journal of Hazardous Materials, 2009, 169, 339-344.	6.5	89
122	Kinetic assessment of the potassium ferrate(VI) oxidation of antibacterial drug sulfamethoxazole. Chemosphere, 2006, 62, 128-134.	4.2	88
123	Layered nanostructured ferroelectric perovskite Bi ₅ FeTi ₃ O ₁₅ for visible light photodegradation of antibiotics. Journal of Materials Chemistry A, 2017, 5, 21275-21290.	5.2	88
124	Enhanced oxidative transformation of organic contaminants by activation of ferrate(VI): Possible involvement of FeV/FeIV species. Chemical Engineering Journal, 2017, 307, 513-517.	6.6	88
125	Ferrate(VI) oxidation of propranolol: Kinetics and products. Chemosphere, 2013, 91, 105-109.	4.2	86
126	The effects of monovalent and divalent cations on the stability of silver nanoparticles formed from direct reduction of silver ions by Suwannee River humic acid/natural organic matter. Science of the Total Environment, 2012, 441, 277-289.	3.9	85

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127	Photodegradation of phenanthrene on cation-modified clays under visible light. <i>Applied Catalysis B: Environmental</i> , 2012, 123-124, 43-51.	10.8	85
128	Ti ³⁺ -self doped brookite TiO ₂ single-crystalline nanosheets with high solar absorption and excellent photocatalytic CO ₂ reduction. <i>Scientific Reports</i> , 2016, 6, 23684.	1.6	85
129	Pharmaceuticals and pesticides in secondary effluent wastewater: Identification and enhanced removal by acid-activated ferrate(VI). <i>Water Research</i> , 2019, 148, 272-280.	5.3	85
130	Peracetic Acid-Ruthenium(III) Oxidation Process for the Degradation of Micropollutants in Water. <i>Environmental Science & Technology</i> , 2021, 55, 9150-9160.	4.6	85
131	Ferrate(VI) oxidation of glycine and glycyglycine: Kinetics and products. <i>Water Research</i> , 2010, 44, 927-935.	5.3	84
132	Zero-Valent Iron Nanoparticles Reduce Arsenites and Arsenates to As(0) Firmly Embedded in Core-Shell Superstructure: Challenging Strategy of Arsenic Treatment under Anoxic Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3027-3038.	3.2	84
133	TiO ₂ -supported Ag nanoclusters with enhanced visible light activity for the photocatalytic removal of NO. <i>Applied Catalysis B: Environmental</i> , 2018, 234, 206-212.	10.8	84
134	Effect of Metal Ions on Oxidation of Micropollutants by Ferrate(VI): Enhancing Role of Fe ^{IV} Species. <i>Environmental Science & Technology</i> , 2021, 55, 623-633.	4.6	84
135	Humic acid as promising organic anodes for lithium/sodium ion batteries. <i>Chemical Communications</i> , 2015, 51, 14708-14711.	2.2	83
136	Regulation of Cell Uptake and Cytotoxicity by Nanoparticle Core under the Controlled Shape, Size, and Surface Chemistries. <i>ACS Nano</i> , 2020, 14, 289-302.	7.3	83
137	Elimination of Sludge Odor by Oxidizing Sulfur-Containing Compounds with Ferrate(VI). <i>Environmental Science & Technology</i> , 2009, 43, 5890-5895.	4.6	82
138	Remarkable efficiency of phosphate removal: Ferrate(VI)-induced in situ sorption on core-shell nanoparticles. <i>Water Research</i> , 2016, 103, 83-91.	5.3	82
139	Insight into the role of Ti ³⁺ in photocatalytic performance of shuriken-shaped BiVO ₄ /TiO ₂ heterojunction. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 526-532.	10.8	82
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