Chuanyi Wang

List of Publications by Citations

533 papers	30,865 citations	88 h-index	153 g-index
550 ext. papers	36,374 ext. citations	8.4 avg, IF	8.03 L-index

#	Paper	IF	Citations
533	Silver nanoparticles: green synthesis and their antimicrobial activities. *Advances in Colloid and Interface Science*, **2009**, 145, 83-96	14.3	2615
532	Silver colloid nanoparticles: synthesis, characterization, and their antibacterial activity. *Journal of Physical Chemistry B*, **2006**, 110, 16248-53	3.4	1781
531	Aquatic arsenic: toxicity, speciation, transformations, and remediation. *Environment International*, **2009**, 35, 743-59	12.9	784
530	Synthesis and photocatalytic activity of ferrites under visible light: A review. *Separation and Purification Technology*, **2012**, 87, 1-14	8.3	536
529	Silver polymeric nanocomposites as advanced antimicrobial agents: classification, synthetic paths, applications, and perspectives. *Advances in Colloid and Interface Science*, **2011**, 166, 119-35	14.3	483
528	A review of the influence of treatment strategies on antibiotic resistant bacteria and antibiotic resistance genes. *Chemosphere*, **2016**, 150, 702-714	8.4	400
527	Self-Assembly of Perylene Imide Molecules into 1D Nanostructures: Methods, Morphologies, and Applications. *Chemical Reviews*, **2015**, 115, 11967-98	68.1	381
526	Selective photocatalytic N2 fixation dependent on g-C3N4 induced by nitrogen vacancies. *Journal of Materials Chemistry A*, **2015**, 3, 23435-23441	13	373
525	Adsorption of arsenate and arsenite on titanium dioxide suspensions. *Journal of Colloid and Interface Science*, **2004**, 278, 270-5	9.3	346
524	Potassium ferrate(VI): an environmentally friendly oxidant. *Journal of Environmental Management*, **2002**, 6, 143-156		340
523	Effective photocatalytic H2O2 production under visible light irradiation at g-C3N4 modulated by carbon vacancies. *Applied Catalysis B: Environmental*, **2016**, 190, 26-35	21.8	322
522	Organic-coated silver nanoparticles in biological and environmental conditions: fate, stability and toxicity. *Advances in Colloid and Interface Science*, **2014**, 204, 15-34	14.3	267
521	Natural inorganic nanoparticles--formation, fate, and toxicity in the environment. *Chemical Society Reviews*, **2015**, 44, 8410-23	58.5	260
520	Photocatalytic oxidation of arsenic(III): evidence of hydroxyl radicals. *Environmental Science & Technology*, **2005**, 39, 1827-34	10.3	259
519	Electrocatalytic destruction of the antibiotic tetracycline in aqueous medium by electrochemical advanced oxidation processes: Effect of electrode materials. *Applied Catalysis B: Environmental*, **2013**, 140-141, 92-97	21.8	247
518	Ferrates: greener oxidants with multimodal action in water treatment technologies. *Accounts of Chemical Research*, **2015**, 48, 182-91	24.3	246
517	Humic acid-induced silver nanoparticle formation under environmentally relevant conditions. *Environmental Science & Technology*, **2011**, 45, 3895-901	10.3	240

516	Water-stable metal-organic frameworks for aqueous removal of heavy metals and radionuclides: A review. *Chemosphere*, **2018**, 209, 783-800	8.4	238
515	Aggregation and toxicity of titanium dioxide nanoparticles in aquatic environment--a review. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2009**, 44, 1485-95	2.3	234
514	Occurrence, transportation, monitoring and treatment of emerging micro-pollutants in waste water □A review from global views. *Microchemical Journal*, **2013**, 110, 292-300	4.8	233
513	Pharmaceuticals and personal care products in waters: occurrence, toxicity, and risk. *Environmental Chemistry Letters*, **2015**, 13, 381-394	13.3	214
512	Ferrate(VI) and ferrate(V) oxidation of organic compounds: Kinetics and mechanism. *Coordination Chemistry Reviews*, **2013**, 257, 495-510	23.2	209
511	Water depollution using metal-organic frameworks-catalyzed advanced oxidation processes: A review. *Journal of Hazardous Materials*, **2019**, 372, 3-16	12.8	201
510	Simultaneous band-gap narrowing and carrier-lifetime prolongation of organic-inorganic trihalide perovskites. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 8910-5	11.5	199
509	Nitrogen-doped graphene and graphene quantum dots: A review onsynthesis and applications in energy, sensors and environment. *Advances in Colloid and Interface Science*, **2018**, 259, 44-64	14.3	196
508	Oxidation of sulfonamide antimicrobials by ferrate(VI) [Fe(VI)O4(2-)]. *Environmental Science & Technology*, **2006**, 40, 7222-7	10.3	187
507	Oxidation of inorganic contaminants by ferrates (VI, V, and IV)--kinetics and mechanisms: a review. *Journal of Environmental Management*, **2011**, 92, 1051-73	7.9	181
506	Management on the location and concentration of Ti3+ in anatase TiO2 for defects-induced visible-light photocatalysis. *Applied Catalysis B: Environmental*, **2015**, 176-177, 354-362	21.8	174
505	Removal of Nitric Oxide through Visible Light Photocatalysis by g-C3N4 Modified with Perylene Imides. *ACS Catalysis*, **2016**, 6, 6511-6519	13.1	170
504	Oxidative transformations of environmental pharmaceuticals by Cl□ClO□O□and Fe(VI): kinetics assessment. *Chemosphere*, **2008**, 73, 1379-86	8.4	167
503	Nitrogen-sulfur co-doped industrial graphene as an efficient peroxymonosulfate activator: Singlet oxygen-dominated catalytic degradation of organic contaminants. *Applied Catalysis B: Environmental*, **2019**, 251, 335-345	21.8	162
502	Nonylphenol, octylphenol, and bisphenol-A in the aquatic environment: a review on occurrence, fate, and treatment. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2009**, 44, 423-42	2.3	162
501	Oxidation of inorganic compounds by Ferrate(VI) and Ferrate(V): one-electron and two-electron transfer steps. *Environmental Science & Technology*, **2010**, 44, 5148-52	10.3	159
500	Clay mineral adsorbents for heavy metal removal from wastewater: a review. *Environmental Chemistry Letters*, **2019**, 17, 629-654	13.3	158
499	Destruction of microcystins by conventional and advanced oxidation processes: A review. *Separation and Purification Technology*, **2012**, 91, 3-17	8.3	156

498	Mesoporous zinc ferrite: synthesis, characterization, and photocatalytic activity with H2O2/visible light. *Journal of Hazardous Materials*, **2012**, 211-212, 95-103	12.8	155
497	CO2 photoreduction with H2O vapor on highly dispersed CeO2/TiO2 catalysts: Surface species and their reactivity. *Journal of Catalysis*, **2016**, 337, 293-302	7.3	153
496	Review on High Valent FeVI (Ferrate): A Sustainable Green Oxidant in Organic Chemistry and Transformation of Pharmaceuticals. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 18-34	8.3	150
495	Plasmonic Ag-TiO2 nanocomposites for the photocatalytic removal of NO under visible light with high selectivity: The role of oxygen vacancies. *Applied Catalysis B: Environmental*, **2017**, 204, 67-77	21.8	147
494	Ferrate(VI)-induced arsenite and arsenate removal by in situ structural incorporation into magnetic iron(III) oxide nanoparticles. *Environmental Science & Technology*, **2013**, 47, 3283-92	10.3	142
493	Degradation of atrazine by ZnxCu1Fe2O4 nanomaterial-catalyzed sulfite under UVis light irradiation: Green strategy to generate SO4*Applied Catalysis B: Environmental*, **2018**, 221, 380-392	21.8	141
492	Lignocellulosic Biomass Transformations via Greener Oxidative Pretreatment Processes: Access to Energy and Value-Added Chemicals. *Frontiers in Chemistry*, **2018**, 6, 141	5	137
491	Interactions of aqueous Ag+ with fulvic acids: mechanisms of silver nanoparticle formation and investigation of stability. *Environmental Science & Technology*, **2013**, 47, 757-64	10.3	137
490	Carbon vacancy regulated photoreduction of NO to N2 over ultrathin g-C3N4 nanosheets. *Applied Catalysis B: Environmental*, **2017**, 218, 515-524	21.8	135
489	Degradation of fluoroquinolone antibiotics by ferrate(VI): Effects of water constituents and oxidized products. *Water Research*, **2016**, 103, 48-57	12.5	134
488	Two-channel photocatalytic production of H2O2 over g-C3N4 nanosheets modified with perylene imides. *Journal of Catalysis*, **2017**, 352, 274-281	7.3	127
487	Removal of microplastics from the environment. A review. *Environmental Chemistry Letters*, **2020**, 18, 807-828	13.3	125
486	Magnetic graphene-carbon nanotube iron nanocomposites as adsorbents and antibacterial agents for water purification. *Advances in Colloid and Interface Science*, **2015**, 225, 229-40	14.3	123
485	Treatment of organic pollutants by homogeneous and heterogeneous Fenton reaction processes. *Environmental Chemistry Letters*, **2018**, 16, 947-967	13.3	121
484	Disinfection performance of Fe(VI) in water and wastewater: a review. *Water Science and Technology*, **2007**, 55, 225-32	2.2	119
483	Highly efficient electrocatalytic performance based on Pt nanoflowers modified reduced graphene oxide/carbon cloth electrode. *Journal of Materials Chemistry*, **2012**, 22, 13707		118
482	Size controllable synthesis of single-crystal ferroelectric Bi4Ti3O12 nanosheet dominated with {0 0 1} facets toward enhanced visible-light-driven photocatalytic activities. *Applied Catalysis B: Environmental*, **2014**, 156-157, 35-43	21.8	116
481	Reactivity of ferrate(VI) and ferrate(V) with amino acids. *Inorganic Chemistry*, **1991**, 30, 4306-4310	5.1	115

480	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. *Chemical Engineering Journal*, **2017**, 311, 236-246	14.7	114
479	Oxidation of Amino Acids, Peptides and Proteins by Ozone: A Review. *Ozone: Science and Engineering*, **2010**, 32, 81-90	2.4	112
478	Dissociation constants of the monoprotic ferrate(VI) ion in NaCl media. *Physical Chemistry Chemical Physics*, **2001**, 3, 2059-2062	3.6	110
477	Oxidation of nitrogen-containing pollutants by novel ferrate(VI) technology: a review. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2010**, 45, 645-67	2.3	109
476	Three-dimensional open CoMoOx/CoMoSx/CoSx nanobox electrocatalysts for efficient oxygen evolution reaction. *Applied Catalysis B: Environmental*, **2020**, 265, 118605	21.8	109
475	Biogeochemistry of selenium. A review. *Environmental Chemistry Letters*, **2015**, 13, 49-58	13.3	107
474	Research progress in the electrochemical synthesis of ferrate(VI). *Electrochimica Acta*, **2009**, 54, 2673-2683	6.7	106
473	Highly efficient and selective removal of mercury ions using hyperbranched polyethylenimine functionalized carboxymethyl chitosan composite adsorbent. *Chemical Engineering Journal*, **2019**, 358, 253-263	14.7	105
472	Effects of atmospheric pressure plasmas on isolated and cellular DNA-a review. *International Journal of Molecular Sciences*, **2015**, 16, 2971-3016	6.3	103
471	Adsorption of antibiotics and iopromide onto single-walled and multi-walled carbon nanotubes. *Chemical Engineering Journal*, **2014**, 255, 23-27	14.7	103
470	Oxidation of trimethoprim by ferrate(VI): kinetics, products, and antibacterial activity. *Environmental Science & Technology*, **2011**, 45, 10575-81	10.3	103
469	Enhanced photocatalytic hydrogen evolution along with byproducts suppressing over Z-scheme Cd x Zn 1□x S/Au/g-C 3 N 4 photocatalysts under visible light. *Science Bulletin*, **2017**, 62, 602-609	10.6	102
468	Cobalt ferrite nanoparticles with controlled composition-peroxymonosulfate mediated degradation of 2-phenylbenzimidazole-5-sulfonic acid. *Applied Catalysis B: Environmental*, **2018**, 221, 266-279	21.8	102
467	Degradation of aqueous 2,4,4'-Trihydroxybenzophenone by persulfate activated with nitrogen doped carbonaceous materials and the formation of dimer products. *Water Research*, **2018**, 143, 176-187	12.5	102
466	Facile Synthesis of Defective TiO2-x Nanocrystals with High Surface Area and Tailoring Bandgap for Visible-light Photocatalysis. *Scientific Reports*, **2015**, 5, 15804	4.9	102
465	Visible-light-assisted electrocatalytic oxidation of methanol using reduced graphene oxide modified Pt nanoflowers-TiO2 nanotube arrays. *ACS Applied Materials & Interfaces*, **2014**, 6, 17753-61	9.5	101
464	One-step electrodeposition of platinum nanoflowers and their high efficient catalytic activity for methanol electro-oxidation. *Electrochemistry Communications*, **2010**, 12, 882-885	5.1	100
463	Metal-mediated oxidation of fluoroquinolone antibiotics in water: A review on kinetics, transformation products, and toxicity assessment. *Journal of Hazardous Materials*, **2018**, 344, 1136-1154	12.8	98

462	Ferrate(VI) Oxidation of Hydrogen Sulfide. *Environmental Science & Technology*, **1997**, 31, 2486-2491	10.3	98
461	Ferrate(VI) Oxidation of Aqueous Cyanide. *Environmental Science & Technology*, **1998**, 32, 2608-2613	10.3	98
460	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. *Environmental Science & Technology*, **2018**, 52, 5725-5733	10.3	95
459	Simultaneous determination of corticosteroids, androgens, and progesterone in river water by liquid chromatography-tandem mass spectrometry. *Chemosphere*, **2010**, 78, 972-9	8.4	95
458	Preparation and characterization of chitosan–poly(vinyl alcohol)/bentonite nanocomposites for adsorption of Hg(II) ions. *Chemical Engineering Journal*, **2014**, 251, 404-412	14.7	94
457	Adsorption and removal of tetracycline from water by petroleum coke-derived highly porous activated carbon. *Journal of Environmental Chemical Engineering*, **2015**, 3, 1504-1512	6.8	94
456	Mechanisms of oxidation of organosulfur compounds by ferrate(VI). *Chemosphere*, **2011**, 82, 1083-9	8.4	93
455	Formation and toxicity of brominated disinfection byproducts during chlorination and chloramination of water: a review. *Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes*, **2014**, 49, 212-28	2.2	92
454	Ferrate(VI)-prompted removal of metals in aqueous media: mechanistic delineation of enhanced efficiency via metal entrenchment in magnetic oxides. *Environmental Science & Technology*, **2015**, 49, 2319-27	10.3	92
453	A congruently melting and deep UV nonlinear optical material: Li3Cs2B5O10. *Journal of Materials Chemistry*, **2011**, 21, 2890		92
452	Formation and Stabilization of Environmentally Persistent Free Radicals Induced by the Interaction of Anthracene with Fe(III)-Modified Clays. *Environmental Science & Technology*, **2016**, 50, 6310-9	10.3	91
451	Selective removal of mercury ions using a chitosan–poly(vinyl alcohol) hydrogel adsorbent with three-dimensional network structure. *Chemical Engineering Journal*, **2013**, 228, 232-242	14.7	90
450	High efficient electrocatalytic oxidation of methanol on Pt/polyindoles composite catalysts. *International Journal of Hydrogen Energy*, **2010**, 35, 3270-3279	6.7	90
449	Size effect of Pt co-catalyst on photocatalytic efficiency of g-C3N4 for hydrogen evolution. *Applied Surface Science*, **2019**, 464, 36-42	6.7	90
448	Accelerated Oxidation of Organic Contaminants by Ferrate(VI): The Overlooked Role of Reducing Additives. *Environmental Science & Technology*, **2018**, 52, 11319-11327	10.3	90
447	Enhancement of visible-light-driven photocatalytic H 2 evolution from water over g-C 3 N 4 through combination with perylene diimide aggregates. *Applied Catalysis A: General*, **2015**, 498, 63-68	5.1	89
446	Reductive and oxidative degradation of iopamidol, iodinated X-ray contrast media, by Fe(III)-oxalate under UV and visible light treatment. *Water Research*, **2014**, 67, 144-53	12.5	88
445	A Bulk Boron-Based Photocatalyst for Efficient Dechlorination: K3B6O10Br. *Chemistry of Materials*, **2014**, 26, 3169-3174	9.6	86

444	Methodologies for the analytical determination of ferrate(VI): a review. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2011**, 46, 453-60	2.3	85
443	A three-dimensional macroporous network structured chitosan/cellulose biocomposite sponge for rapid and selective removal of mercury(II) ions from aqueous solution. *Chemical Engineering Journal* , **2019**, 363, 192-202	14.7	84
442	Ferrate promoted oxidative cleavage of sulfonamides: Kinetics and product formation under acidic conditions. *Chemical Engineering Journal*, **2015**, 279, 307-316	14.7	84
441	Selective photocatalytic CO2 reduction to CH4 over Pt/In2O3: Significant role of hydrogen adatom. *Applied Catalysis B: Environmental*, **2018**, 226, 544-553	21.8	84
440	Iron(III) Oxide Nanoparticles in the Thermally Induced Oxidative Decomposition of Prussian Blue, Fe4[Fe(CN)6]3. *Crystal Growth and Design*, **2004**, 4, 1317-1325	3.5	83
439	Oxidation of microcystin-LR by ferrate(VI): kinetics, degradation pathways, and toxicity assessments. *Environmental Science & Technology*, **2014**, 48, 12164-72	10.3	81
438	Advanced activation of persulfate by polymeric g-CN based photocatalysts for environmental remediation: A review. *Journal of Hazardous Materials*, **2021**, 413, 125324	12.8	81
437	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	12.8	80
436	Oxygen vacancies induced visible-light photocatalytic activities of CaCu3Ti4O12 with controllable morphologies for antibiotic degradation. *Applied Catalysis B: Environmental*, **2018**, 221, 422-432	21.8	80
435	Sulfonamides and tetracyclines in livestock wastewater. *Chemosphere*, **2013**, 91, 888-94	8.4	80
434	Enhanced CO2 photoreduction activity of black TiO2−x coated Cu nanoparticles under visible light irradiation: Role of metallic Cu. *Applied Catalysis A: General*, **2016**, 510, 34-41	5.1	78
433	Meso- and micro- porous composite carbons derived from humic acid for supercapacitors. *Electrochimica Acta*, **2014**, 136, 504-512	6.7	78
432	Ferrate(VI) oxidation of glycine and glycylglycine: kinetics and products. *Water Research*, **2010**, 44, 927-35	12.5	77
431	Enhanced electrocatalytic performance for methanol oxidation on Pt−TiO2/ITO electrode under UV illumination. *International Journal of Hydrogen Energy*, **2010**, 35, 13290-13297	6.7	76
430	Kinetic assessment of the potassium ferrate(VI) oxidation of antibacterial drug sulfamethoxazole. *Chemosphere*, **2006**, 62, 128-34	8.4	75
429	Ferrate(VI) oxidation of propranolol: kinetics and products. *Chemosphere*, **2013**, 91, 105-9	8.4	74
428	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, 339-44	12.8	74
427	Iron(VI) and iron(V) oxidation of copper(I) cyanide. *Environmental Science & Technology*, **2005**, 39, 3849-54	10.3	74

426	Synergistic effect of aqueous removal of fluoroquinolones by a combined use of peroxymonosulfate and ferrate(VI). *Chemosphere*, **2017**, 177, 144-148	8.4	73
425	Elimination of sludge odor by oxidizing sulfur-containing compounds with ferrate(VI). *Environmental Science & Technology*, **2009**, 43, 5890-5	10.3	73
424	Switching of semiconducting behavior from n-type to p-type induced high photocatalytic NO removal activity in g-C3N4. *Applied Catalysis B: Environmental*, **2017**, 214, 46-56	21.8	72
423	Photocatalytic CO2 reduction over SrTiO3: Correlation between surface structure and activity. *Applied Surface Science*, **2018**, 447, 627-635	6.7	72
422	Insight into the role of Ti3+ in photocatalytic performance of shuriken-shaped BiVO4/TiO2 heterojunction. *Applied Catalysis B: Environmental*, **2017**, 203, 526-532	21.8	72
421	Improved photocatalytic NO removal activity of SrTiO3 by using SrCO3 as a new co-catalyst. *Applied Catalysis B: Environmental*, **2018**, 227, 24-34	21.8	71
420	Carbon quantum dots implanted CdS nanosheets: Efficient visible-light-driven photocatalytic reduction of Cr(VI) under saline conditions. *Applied Catalysis B: Environmental*, **2020**, 262, 118306	21.8	71
419	Strategic combination of N-doped graphene and g-C3N4: Efficient catalytic peroxymonosulfate-based oxidation of organic pollutants by non-radical-dominated processes. *Applied Catalysis B: Environmental*, **2020**, 272, 119005	21.8	70
418	Ti3+-self doped brookite TiO2 single-crystalline nanosheets with high solar absorption and excellent photocatalytic CO2 reduction. *Scientific Reports*, **2016**, 6, 23684	4.9	70
417	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, 277-89	10.2	70
416	Iron(VI) and iron(V) oxidation of thiocyanate. *Environmental Science & Technology*, **2002**, 36, 4182-6	10.3	69
415	Prussian blue/TiO2 nanocomposites as a heterogeneous photo-Fenton catalyst for degradation of organic pollutants in water. *Catalysis Science and Technology*, **2015**, 5, 504-514	5.5	67
414	Photodegradation of phenanthrene on cation-modified clays under visible light. *Applied Catalysis B: Environmental*, **2012**, 123-124, 43-51	21.8	67
413	Kinetics and mechanism of oxidation of tryptophan by ferrate(VI). *Environmental Science & Technology*, **2013**, 47, 4572-80	10.3	67
412	Ferrate(VI) Oxidation of Thiourea. *Environmental Science & Technology*, **1999**, 33, 2645-2650	10.3	66
411	Interactions between silver nanoparticles and other metal nanoparticles under environmentally relevant conditions: A review. *Science of the Total Environment*, **2019**, 653, 1042-1051	10.2	66
410	Oxidation of copper(I) in seawater. *Environmental Science & Technology*, **1988**, 22, 768-71	10.3	65
409	Remarkable efficiency of phosphate removal: Ferrate(VI)-induced in situ sorption on core-shell nanoparticles. *Water Research*, **2016**, 103, 83-91	12.5	65

408	Defective graphitic carbon nitride synthesized by controllable co-polymerization with enhanced visible light photocatalytic hydrogen evolution. *Catalysis Science and Technology*, **2017**, 7, 452-458	5.5	64
407	Ferrate(VI) oxidation of weak-acid dissociable cyanides. *Environmental Science & Technology*, **2008**, 42, 3005-10	10.3	64
406	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. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 3027-3038	8.3	63
405	Assessment of toxicity of selenium and cadmium selenium quantum dots: A review. *Chemosphere*, **2017**, 188, 403-413	8.4	63
404	Layered nanostructured ferroelectric perovskite Bi5FeTi3O15 for visible light photodegradation of antibiotics. *Journal of Materials Chemistry A*, **2017**, 5, 21275-21290	13	63
403	Review of kinetics of chemical and photocatalytical oxidation of Arsenic(III) as influenced by pH. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2007**, 42, 997-1004	2.3	63
402	Pharmaceuticals and pesticides in secondary effluent wastewater: Identification and enhanced removal by acid-activated ferrate(VI). *Water Research*, **2019**, 148, 272-280	12.5	63
401	Humic acid as promising organic anodes for lithium/sodium ion batteries. *Chemical Communications*, **2015**, 51, 14708-11	5.8	62
400	Supported single-atom catalysts: synthesis, characterization, properties, and applications. *Environmental Chemistry Letters*, **2018**, 16, 477-505	13.3	62
399	Environmentally Persistent Free Radicals in Soils of Past Coking Sites: Distribution and Stabilization. *Environmental Science & Technology*, **2017**, 51, 6000-6008	10.3	61
398	Enhanced oxidative transformation of organic contaminants by activation of ferrate(VI): Possible involvement of FeV/FeIV species. *Chemical Engineering Journal*, **2017**, 307, 513-517	14.7	61
397	Kinetics of the oxidation of sucralose and related carbohydrates by ferrate(VI). *Chemosphere*, **2012**, 87, 644-8	8.4	61
396	Enhanced oxidation of antibiotics by ferrate(VI)-sulfur(IV) system: Elucidating multi-oxidant mechanism. *Chemical Engineering Journal*, **2018**, 341, 137-145	14.7	60
395	Reactivity of ferrate(V) with carboxylic acids: A pre-mix pulse radiolysis study. *Radiation Physics and Chemistry*, **1994**, 44, 479-484	2.5	60
394	Oxidation of Pharmaceuticals by Ferrate(VI) in Hydrolyzed Urine: Effects of Major Inorganic Constituents. *Environmental Science & Technology*, **2019**, 53, 5272-5281	10.3	59
393	Plasmonic Hot Electrons from Oxygen Vacancies for Infrared Light-Driven Catalytic CO Reduction on Bi O. *Angewandte Chemie - International Edition*, **2021**, 60, 910-916	16.4	59
392	Oxidation of Sulfonamide Antibiotics of Six-Membered Heterocyclic Moiety by Ferrate(VI): Kinetics and Mechanistic Insight into SO Extrusion. *Environmental Science & Technology*, **2019**, 53, 2695-2704	10.3	58
391	Ferrate(VI) oxidation of polychlorinated diphenyl sulfides: Kinetics, degradation, and oxidized products. *Water Research*, **2018**, 143, 1-9	12.5	58

390	Green synthesis of shape-defined anatase TiO2 nanocrystals wholly exposed with {001} and {100} facets. *Chemical Communications*, **2012**, 48, 11736-8	5.8	58
389	Mechanisms and efficiency of the simultaneous removal of metals and cyanides by using ferrate(VI): crucial roles of nanocrystalline iron(III) oxyhydroxides and metal carbonates. *Chemistry - A European Journal*, **2011**, 17, 10097-105	4.8	58
388	Ferrate(VI) oxidation of endocrine disruptors and antimicrobials in water **2008**, 57, 419-426		58
387	Ferrate(VI) and ferrate(V) oxidation of cyanide, thiocyanate, and copper(I) cyanide. *Radiation Physics and Chemistry*, **2008**, 77, 761-767	2.5	58
386	Biomass derived hierarchically porous and heteroatom-doped carbons for supercapacitors. *Journal of Colloid and Interface Science*, **2018**, 509, 369-383	9.3	57
385	Ferrate(VI) oxidation of ibuprofen: A kinetic study. *Environmental Chemistry Letters*, **2006**, 3, 182-185	13.3	57
384	Atmospheric deposition of polycyclic aromatic hydrocarbons (PAHs) in mosses (Hypnum cupressiforme) in Hungary. *Science of the Total Environment*, **2004**, 330, 89-99	10.2	57
383	Enhanced formation of silver nanoparticles in Ag+-NOM-iron(II, III) systems and antibacterial activity studies. *Environmental Science & Technology*, **2014**, 48, 3228-35	10.3	56
382	Ferrate(VI): green chemistry oxidant for degradation of cationic surfactant. *Chemosphere*, **2006**, 63, 1785-90	8.4	56
381	TiO2-supported Ag nanoclusters with enhanced visible light activity for the photocatalytic removal of NO. *Applied Catalysis B: Environmental*, **2018**, 234, 206-212	21.8	55
380	pH dependence and thermodynamics of Hg(II) adsorption onto chitosan-poly(vinyl alcohol) hydrogel adsorbent. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 441, 51-58	5.1	55
379	Visible-light-harvesting reduction of CO2 to chemical fuels with plasmonic Ag@AgBr/CNT nanocomposites. *Catalysis Today*, **2013**, 216, 268-275	5.3	54
378	Nonenzymatic uric acid electrochemical sensor based on graphene-modified carbon fiber electrode. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2013**, 419, 94-99	5.1	54
377	Ferrate(VI) oxidation of zinc-cyanide complex. *Chemosphere*, **2007**, 69, 729-35	8.4	54
376	Sequential One-Electron Reduction of Fe(V) to Fe(III) by Cyanide in Alkaline Medium. *Journal of Physical Chemistry B*, **2001**, 105, 11529-11532	3.4	54
375	Impact of metal ions, metal oxides, and nanoparticles on the formation of disinfection byproducts during chlorination. *Chemical Engineering Journal*, **2017**, 317, 777-792	14.7	53
374	Oxidation of β-lactam antibiotics by ferrate(VI). *Chemical Engineering Journal*, **2013**, 221, 446-451	14.7	53
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