Jia-Qian Jiang

List of Publications by Year
in descending order

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104 papers	6,068 citations	57631 44 h-index	71532 76 g-index
106 all docs	106 docs citations	106 times ranked	5221 citing authors

#	Article	IF	Citations
1	Removing imidacloprid, bisphenol-S and azithromycin by ferrate (Fe(VI)): efficiency, oxidation products, toxicity and kinetics. Environmental Challenges, 2022, , 100552.	2.0	0
2	Comparative removal of imidacloprid, <scp>bisphenolâ€S,</scp> and azithromycin with ferrate and <scp>FeCl₃</scp> and assessment of the resulting toxicity. Journal of Chemical Technology and Biotechnology, 2021, 96, 99-112.	1.6	13
3	Treatability of five micro-pollutants using modified Fenton reaction catalysed by zero-valent iron powder (Fe(0)). Journal of Environmental Chemical Engineering, 2021, 9, 105393.	3.3	15
4	Preliminarily comparative performance of removing bisphenol-S by ferrate oxidation and ozonation. Npj Clean Water, 2021, 4, .	3.1	75
5	Filtration Process and Alternative Filter Media Material in Water Treatment. Water (Switzerland), 2020, 12, 3377.	1.2	56
6	Field Study III: Evidence Gained from Site Studies for the Performance of Ferrate(VI) in Water and Wastewater Treatment. Applied Environmental Science and Engineering for A Sustainable Future, 2020, , 289-297.	0.2	0
7	Removal of sulfadiazine by ferrate(VI) oxidation and montmorillonite adsorptionâ€"Synergistic effect and degradation pathways. Journal of Environmental Chemical Engineering, 2019, 7, 103225.	3.3	24
8	Non-Parametric Regression Analysis of Diuron and Gabapentin Degradation in Lake Constance Water by Ozonation and Their Toxicity Assessment. Water (Switzerland), 2019, 11, 852.	1.2	3
9	Comparative Performance of Catalytic Fenton Oxidation with Zero-Valent Iron (Fe(0)) in Comparison with Ferrous Sulphate for the Removal of Micropollutants. Applied Sciences (Switzerland), 2019, 9, 2181.	1.3	10
10	Detection of imidacloprid and Bisphenol-S by Solid Phase Extraction (SPE) coupled with UV-VIS spectrometer and LC-MS. Biointerface Research in Applied Chemistry, 2019, 9, 4433-4438.	1.0	8
11	Occurrence of microplastics and its pollution in the environment: A review. Sustainable Production and Consumption, 2018, 13, 16-23.	5.7	203
12	Practical application of ferrate(VI) for water and wastewater treatment â€“ Site studyâ€™s approach. Water-Energy Nexus, 2018, 1, 42-46.	1.7	27
13	Toxicity assessment of four pharmaceuticals in aquatic environment before and after ferrate(VI) treatment. Journal of Environmental Chemical Engineering, 2018, 6, 3787-3797.	3.3	19
14	Strategic phosphate removal/recovery by a re-usable Mgâ€“Feâ€“Cl layered double hydroxide. Chemical Engineering Research and Design, 2017, 107, 454-462.	2.7	52
15	Potential Routes to Obtain Value-Added Iron-Containing Compounds from Red Mud. Journal of Sustainable Metallurgy, 2017, 3, 561-569.	1.1	13
16	Removal of Selected Pharmaceuticals Spiked in the Secondary Effluent of a Wastewater Treatment Plant (WWTP) by Potassium Ferrate(VI). ACS Symposium Series, 2016, , 275-285.	0.5	0
17	Adsorption of bisphenol A onto cationic-modified zeolite. Desalination and Water Treatment, 2016, 57, 26299-26306.	1.0	19
18	Assessment of recycled glass and expanded clay in a dual media configuration for drinking water treatment. Separation Science and Technology, 2016, 51, 2455-2464.	1.3	3

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19	Drinking water treatment by ferrate(VI) and toxicity assessment of the treated water. Desalination and Water Treatment, 2016, 57, 26369-26375.	1.0	6
20	Reaction kinetics and oxidation product formation in the degradation of acetaminophen by ferrate (VI). Chemosphere, 2016, 155, 583-590.	4.2	47
21	Treatment of selected pharmaceuticals by ferrate(VI): Performance, kinetic studies and identification of oxidation products. Journal of Pharmaceutical and Biomedical Analysis, 2015, 106, 37-45.	1.4	63
22	Drinking water treatment byin situgenerated ferrate(VI). Desalination and Water Treatment, 2015, 55, 731-739.	1.0	33
23	The role of coagulation in water treatment. Current Opinion in Chemical Engineering, 2015, 8, 36-44.	3.8	236
24	The role of ferrate(VI) in the remediation of emerging micropollutants: a review. Desalination and Water Treatment, 2015, 55, 828-835.	1.0	29
25	Removal of Arsenic (<scp>III</scp>) from groundwater applying a reusable Mgâ€Feâ€Cl layered double hydroxide. Journal of Chemical Technology and Biotechnology, 2015, 90, 1160-1166.	1.6	39
26	Reaction kinetics and oxidation products formation in the degradation of ciprofloxacin and ibuprofen by ferrate(VI). Chemosphere, 2015, 119, S95-S100.	4.2	80
27	Preparation and evaluation of layered double hydroxides (LDHs) for phosphate removal. Desalination and Water Treatment, 2015, 55, 836-843.	1.0	9
28	Advances in the development and application of ferrate(<scp>VI</scp>) for water and wastewater treatment. Journal of Chemical Technology and Biotechnology, 2014, 89, 165-177.	1.6	129
29	Study on the sorptionâ€“desorptionâ€“regeneration performance of Ca-, Mg- and CaMg-based layered double hydroxides for removing phosphate from water. Chemical Engineering Journal, 2014, 246, 97-105.	6.6	90
30	Simultaneous Detection of Sulfamethoxazole, Diclofenac, Carbamazepine, and Bezafibrate by Solid Phase Extraction and High Performance Liquid Chromatography with Diode Array Detection. Journal of Applied Spectroscopy, 2014, 81, 273-278.	0.3	10
31	Advances Made in Understanding the Interaction of Ferrate(VI) with Natural Organic Matter in Water. , 2014, , 183-197.		6
32	Ferrate(VI): Novel Compound for Removal of Natural Organic Matter in Water. , 2013, , 911-914.		3
33	Suitability of semi-quantitative inductive coupled plasma-mass spectrometry for multi-elemental screening in water contamination warning system. Journal of Applied Spectroscopy, 2013, 80, 437-448.	0.3	3
34	Pharmaceutical removal from wastewater by ferrate(VI) and preliminary effluent toxicity assessments by the zebrafish embryo model. Microchemical Journal, 2013, 110, 239-245.	2.3	42
35	The Role of Ferrate(VI) in the Remediation of Emerging Micro Pollutants. Procedia Environmental Sciences, 2013, 18, 418-426.	1.3	17
36	Ferrate(VI): A Green Chemistry Oxidant for Removal of Antibiotics in Water. ACS Symposium Series, 2013, , 31-44.	0.5	4

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37	Arsenic Contaminated Groundwater and Its Treatment Options in Bangladesh. International Journal of Environmental Research and Public Health, 2013, 10, 18-46.	1.2	95
38	Occurrence, transportation, monitoring and treatment of emerging micro-pollutants in waste water â€" A review from global views. Microchemical Journal, 2013, 110, 292-300.	2.3	286
39	Removal of Pharmaceutical Residues by Ferrate(VI). PLoS ONE, 2013, 8, e55729.	1.1	27
40	Detection of ibuprofen and ciprofloxacin by solid-phase extraction and UV/Vis spectroscopy. Journal of Applied Spectroscopy, 2012, 79, 459-464.	0.3	19
41	Treatment of landscape water (LSW) by electrocoagulation process. Desalination and Water Treatment, 2012, 37, 62-68.	1.0	5
42	Development of novel inorganic adsorbent for water treatment. Current Opinion in Chemical Engineering, 2012, 1, 191-199.	3.8	58
43	Preliminary study of ciprofloxacin (cip) removal by potassium ferrate(VI). Separation and Purification Technology, 2012, 88, 95-98.	3.9	69
44	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, 453-460.	0.9	106
45	The effect of metal cations on phenol adsorption by hexadecyl-trimethyl-ammonium bromide (hdtma) modified clinoptilolite (Ct.). Separation and Purification Technology, 2011, 80, 658-662.	3.9	14
46	Proficiency test of non-target screening with gas chromatography mass spectrometry to confirm a detected contamination of raw and drinking water. Water Science and Technology: Water Supply, 2010, 10, 806-814.	1.0	2
47	Electrochemical Production of Ferrate (Iron VI): Application to the Wastewater Treatment on a Laboratory Scale and Comparison with Iron (III) Coagulant. Water, Air, and Soil Pollution, 2010, 209, 483-488.	1.1	26
48	Engineering Aspects of Electrochemical Generation of Ferrate: A Step Towards Its Full Scale Application for Water and Wastewater Treatment. Water, Air, and Soil Pollution, 2010, 210, 203-210.	1.1	15
49	Preparation and performance of a high purity poly-aluminum chloride. Chemical Engineering Journal, 2010, 156, 64-69.	6.6	31
50	Electrochemical generation of ferrate (VI): Determination of optimum conditions. Desalination, 2010, 254, 175-178.	4.0	29
51	Preliminary study of calcium silicate hydrate (tobermorite) as crystal material to recovery phosphate from wastewater. Desalination and Water Treatment, 2010, 23, 49-54.	1.0	13
52	Oxidation and coagulation of humic substances by potassium ferrate. Water Science and Technology, 2010, 62, 929-936.	1.2	51
53	Comparative Coagulant Demand of Polyferric Chloride and Ferric Chloride for the Removal of Humic Acid. Separation Science and Technology, 2009, 44, 386-397.	1.3	19
54	Electrocoagulation: a new approach for the removal of boron containing wastes. Desalination and Water Treatment, 2009, 2, 133-140.	1.0	19

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55	The online generation and application of ferrate(VI) for sewage treatmentâ€"A pilot scale trial. Separation and Purification Technology, 2009, 68, 227-231.	3.9	73
56	Screening analysis of volatile organic contaminants in commercial inorganic coagulants used for drinking water treatment. Journal of Environmental Management, 2009, 91, 142-148.	3.8	3
57	On-line production of ferrate with an electrochemical method and its potential application for wastewater treatment â€“ A review. Journal of Environmental Management, 2009, 90, 1350-1356.	3.8	85
58	Pharmaceutical residues in wastewater treatment works effluents and their impact on receiving river water. Journal of Hazardous Materials, 2009, 166, 655-661.	6.5	240
59	Phosphorus Recovery by Liquidâ€"Liquid Extraction. Separation Science and Technology, 2009, 44, 3258-3266.	1.3	11
60	Risk assessment of hydrogen gas production in the laboratory scale electrochemical generation of ferrate(VI). Journal of Chemical Health and Safety, 2008, 15, 16-20.	1.1	9
61	The Use of Ferrate(VI) Technology in Sludge Treatment. ACS Symposium Series, 2008, , 306-325.	0.5	4
62	Evaluating the Coagulation Performance of Ferrate: A Preliminary Study. ACS Symposium Series, 2008, , 292-305.	0.5	6
63	Formation of oxidation by-products of the iodinated X-ray contrast medium iomeprol during ozonation. Chemosphere, 2008, 70, 1238-1246.	4.2	73
64	Technologies for Boron Removal. Industrial & Engineering Chemistry Research, 2008, 47, 16-24.	1.8	168
65	Comparison of Algal Removal by Coagulation with Clays and Alâ€based Coagulants. Separation Science and Technology, 2008, 43, 1677-1686.	1.3	28
66	Laboratory Study of Boron Removal by Mg/Al Double-Layered Hydroxides. Industrial & Engineering Chemistry Research, 2007, 46, 4577-4583.	1.8	60
67	The role of potassium ferrate(VI) in the inactivation of Escherichia coli and in the reduction of COD for water remediation. Desalination, 2007, 210, 266-273.	4.0	91
68	Research progress in the use of ferrate(VI) for the environmental remediation. Journal of Hazardous Materials, 2007, 146, 617-623.	6.5	194
69	The exploration of potassium ferrate(VI) as a disinfectant/coagulant in water and wastewater treatment. Chemosphere, 2006, 63, 212-219.	4.2	146
70	Monitoring of iodinated X-ray contrast media in surface water. Chemosphere, 2006, 64, 1318-1324.	4.2	91
71	Removal of boron (B) from waste liquors. Water Science and Technology, 2006, 53, 73-79.	1.2	14
72	Mechanisms of Boron Removal with Electrocoagulation. Environmental Chemistry, 2006, 3, 350.	0.7	20

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73	The application of potassium ferrate for sewage treatment. Journal of Environmental Management, 2006, 79, 215-220.	3.8	104
74	Removal of Iodinated X-Ray Contrast Media During Drinking Water Treatment. Environmental Chemistry, 2006, 3, 35.	0.7	57
75	A survey of endocrine disrupting chemicals in sewage and a preliminary treatment trial. Water Science and Technology, 2005, 52, 1-7.	1.2	9
76	Occurrence and treatment trials of endocrine disrupting chemicals (EDCs) in wastewaters. Chemosphere, 2005, 61, 544-550.	4.2	145
77	Effects of the type and structure of modified clays on adsorption performance. International Journal of Environmental Studies, 2005, 62, 403-414.	0.7	15
78	A survey of endocrine disrupting chemicals in sewage and a preliminary treatment trial. Water Science and Technology, 2005, 52, 1-7.	1.2	1
79	Preparation and Use of Modified Clay Coagulants for Wastewater Treatment. Water, Air, and Soil Pollution, 2004, 158, 53-65.	1.1	19
80	Evaluation of modified clay coagulant for sewage treatment. Chemosphere, 2004, 56, 181-185.	4.2	13
81	The influence of pH on the degradation of phenol and chlorophenols by potassium ferrate. Chemosphere, 2004, 56, 949-956.	4.2	165
82	Comparison of modified montmorillonite adsorbents. Chemosphere, 2003, 53, 53-62.	4.2	78
83	Preparation of Modified Clay Adsorbents for the Removal of Humic Acid. Environmental Engineering Science, 2003, 20, 581-586.	0.8	26
84	Enhanced Coagulation with Potassium Ferrate(VI) for Removing Humic Substances. Environmental Engineering Science, 2003, 20, 627-633.	0.8	69
85	Development of Optimal Poly-Aluminoâ€“Iron Sulphate Coagulant. Journal of Environmental Engineering, ASCE, 2003, 129, 699-708.	0.7	11
86	Comparison of modified montmorillonite adsorbents. Chemosphere, 2002, 47, 711-716.	4.2	273
87	Progress in the development and use of ferrate(VI) salt as an oxidant and coagulant for water and wastewater treatment. Water Research, 2002, 36, 1397-1408.	5.3	443
88	Laboratory study of electro-coagulationâ€“flotation for water treatment. Water Research, 2002, 36, 4064-4078.	5.3	269
89	Preliminary evaluation of polymeric Fe- and Al-modified clays as adsorbents for heavy metal removal in water treatment. Journal of Chemical Technology and Biotechnology, 2002, 77, 546-551.	1.6	56
90	DEVELOPMENT OF COAGULATION THEORY AND PRE-POLYMERIZED COAGULANTS FOR WATER TREATMENT. Separation and Purification Reviews, 2001, 30, 127-141.	0.8	69

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91	Preparation and Evaluation of Potassium Ferrate as an Oxidant and Coagulant for Potable Water Treatment. Environmental Engineering Science, 2001, 18, 323-328.	0.8	70
92	Removing arsenic from groundwater for the developing world - a review. Water Science and Technology, 2001, 44, 89-98.	1.2	148
93	Removing arsenic from groundwater for the developing world--a review. Water Science and Technology, 2001, 44, 89-98.	1.2	18
94	The significance of algae as trihalomethane precursors. Water Science and Technology, 1998, 37, 83.	1.2	49
95	Preliminary evaluation of the performance of new pre-polymerised inorganic coagulants for lowland surface water treatment. Water Science and Technology, 1998, 37, 121.	1.2	25
96	Preparation and characterisation of an optimal polyferric sulphate (PFS) as a coagulant for water treatment. Journal of Chemical Technology and Biotechnology, 1998, 73, 351-358.	1.6	67
97	Observations of the comparative hydrolysis/precipitation behaviour of polyferric sulphate and ferric sulphate. Water Research, 1998, 32, 930-935.	5.3	77
98	Evaluation of Poly-Alumino-Iron Sulphate (PAFS) as a Coagulant for Water Treatment. , 1998, , 15-24.		2
99	Preliminary evaluation of the performance of new pre-polymerised inorganic coagulants for lowland surface water treatment. Water Science and Technology, 1998, 37, 121-128.	1.2	16
100	Enhanced Coagulation Using Al/Fe(III) Coagulants: Effect of Coagulant Chemistry on the Removal of Colour-Causing NOM. Environmental Technology (United Kingdom), 1996, 17, 937-950.	1.2	66
101	Enhanced Coagulation Using Al/Fe(III) Coagulants: Effect of Coagulant Chemistry on the Removal of Colour-Causing NOM. Environmental Technology (United Kingdom), 1996, 17, 937-950.	1.2	4
102	Preliminary Evaluation of Polyferric Sulphate As a Coagulant for Surface Water Treatment. , 1994, , 71-93.		7
103	Comparison of Polyferric Sulphate with Other Coagulants for the Removal of Algae and Algae-Derived Organic Matter. Water Science and Technology, 1993, 27, 221-230.	1.2	99
104	Use of Ca- and Mg-type layered double hydroxide adsorbent to reduce phosphate concentration in secondary effluent of domestic wastewater treatment plant. , 0, 127, 64-70.		5