

Feng Xiao

List of Publications by Year in descending order

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82
papers

4,505
citations

117625

34
h-index

106344

65
g-index

87
all docs

87
docs citations

87
times ranked

4807
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging poly- and perfluoroalkyl substances in the aquatic environment: A review of current literature. <i>Water Research</i> , 2017, 124, 482-495.	11.3	417
2	Sorption of ionizable and ionic organic compounds to biochar, activated carbon and other carbonaceous materials. <i>Water Research</i> , 2017, 124, 673-692.	11.3	312
3	Perfluorooctane sulfonate (PFOS) and perfluorooctanoate (PFOA) in soils and groundwater of a U.S. metropolitan area: Migration and implications for human exposure. <i>Water Research</i> , 2015, 72, 64-74.	11.3	244
4	Mechanisms for removal of perfluorooctane sulfonate (PFOS) and perfluorooctanoate (PFOA) from drinking water by conventional and enhanced coagulation. <i>Water Research</i> , 2013, 47, 49-56.	11.3	180
5	Effects of Monovalent Cations on the Competitive Adsorption of Perfluoroalkyl Acids by Kaolinite: Experimental Studies and Modeling. <i>Environmental Science & Technology</i> , 2011, 45, 10028-10035.	10.0	172
6	How Do Enzymes Orient When Trapped on Metal-Organic Framework (MOF) Surfaces?. <i>Journal of the American Chemical Society</i> , 2018, 140, 16032-16036.	13.7	138
7	Input characterization of perfluoroalkyl substances in wastewater treatment plants: Source discrimination by exploratory data analysis. <i>Water Research</i> , 2012, 46, 3101-3109.	11.3	137
8	Interactions of triazine herbicides with biochar: Steric and electronic effects. <i>Water Research</i> , 2015, 80, 179-188.	11.3	127
9	Thermal Stability and Decomposition of Perfluoroalkyl Substances on Spent Granular Activated Carbon. <i>Environmental Science and Technology Letters</i> , 2020, 7, 343-350.	8.7	127
10	Synthesis of akageneite (beta-FeOOH)/reduced graphene oxide nanocomposites for oxidative decomposition of 2-chlorophenol by Fenton-like reaction. <i>Journal of Hazardous Materials</i> , 2016, 308, 11-20.	12.4	123
11	Speciation, stability, and coagulation mechanisms of hydroxyl aluminum clusters formed by PACl and alum: A critical review. <i>Advances in Colloid and Interface Science</i> , 2015, 226, 78-85.	14.7	119
12	Interactions between (Hetero)aromatic Amine Cations and the Graphitic Surfaces of Pyrogenic Carbonaceous Materials. <i>Environmental Science & Technology</i> , 2015, 49, 906-914.	10.0	105
13	Sorption and Desorption Mechanisms of Cationic and Zwitterionic Per- and Polyfluoroalkyl Substances in Natural Soils: Thermodynamics and Hysteresis. <i>Environmental Science & Technology</i> , 2019, 53, 11818-11827.	10.0	105
14	Novel Al-doped carbon nanotubes with adsorption and coagulation promotion for organic pollutant removal. <i>Journal of Environmental Sciences</i> , 2017, 54, 1-12.	6.1	104
15	New Halogenated Disinfection Byproducts in Swimming Pool Water and Their Permeability across Skin. <i>Environmental Science & Technology</i> , 2012, 46, 7112-7119.	10.0	96
16	Perfluoroalkyl acids in urban stormwater runoff: Influence of land use. <i>Water Research</i> , 2012, 46, 6601-6608.	11.3	88
17	Effects of Post-Pyrolysis Air Oxidation of Biomass Chars on Adsorption of Neutral and Ionizable Compounds. <i>Environmental Science & Technology</i> , 2016, 50, 6276-6283.	10.0	88
18	Comparative study of the effects of experimental variables on growth rates of aluminum and iron hydroxide flocs during coagulation and their structural characteristics. <i>Desalination</i> , 2010, 250, 902-907.	8.2	82

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19	Investigation of organic foulants behavior on hollow-fiber UF membranes in a drinking water treatment plant. <i>Separation and Purification Technology</i> , 2012, 95, 109-117.	7.9	81
20	Understanding the impact of chemical conditioning with inorganic polymer flocculants on soluble extracellular polymeric substances in relation to the sludge dewaterability. <i>Separation and Purification Technology</i> , 2014, 132, 430-437.	7.9	79
21	Risks of Single-Walled Carbon Nanotubes Acting as Contaminants-Carriers: Potential Release of Phenanthrene in Japanese Medaka (<i>Oryzias latipes</i>). <i>Environmental Science & Technology</i> , 2013, 47, 4704-4710.	10.0	78
22	Effects of low temperature on coagulation kinetics and floc surface morphology using alum. <i>Desalination</i> , 2009, 237, 201-213.	8.2	75
23	Identification of novel non-ionic, cationic, zwitterionic, and anionic polyfluoroalkyl substances using UPLC-TOF-MSE high-resolution parent ion search. <i>Analytica Chimica Acta</i> , 2017, 988, 41-49.	5.4	75
24	PFOA and PFOS Are Generated from Zwitterionic and Cationic Precursor Compounds During Water Disinfection with Chlorine or Ozone. <i>Environmental Science and Technology Letters</i> , 2018, 5, 382-388.	8.7	71
25	Communicating Confidence of Per- and Polyfluoroalkyl Substance Identification via High-Resolution Mass Spectrometry. <i>Environmental Science and Technology Letters</i> , 2022, 9, 473-481.	8.7	61
26	Efficient Fenton-like Process Induced by Fortified Electron-Rich O Microcenter on the Reduction State Cu-Doped CNO Polymer. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16496-16505.	8.0	59
27	Effects of low temperature on coagulation of kaolinite suspensions. <i>Water Research</i> , 2008, 42, 2983-2992.	11.3	58
28	Batch and column study: Sorption of perfluorinated surfactants from water and cosolvent systems by Amberlite XAD resins. <i>Journal of Colloid and Interface Science</i> , 2012, 368, 505-511.	9.4	57
29	Effects of low temperature on aluminum(III) hydrolysis: Theoretical and experimental studies. <i>Journal of Environmental Sciences</i> , 2008, 20, 907-914.	6.1	53
30	Thermal air oxidation changes surface and adsorptive properties of black carbon (char/biochar). <i>Science of the Total Environment</i> , 2018, 618, 276-283.	8.0	51
31	Effect of granular activated carbon and other porous materials on thermal decomposition of per- and polyfluoroalkyl substances: Mechanisms and implications for water purification. <i>Water Research</i> , 2021, 200, 117271.	11.3	48
32	Disinfection byproduct precursor removal by enhanced coagulation and their distribution in chemical fractions. <i>Journal of Environmental Sciences</i> , 2013, 25, 2207-2213.	6.1	43
33	Thermal Decomposition of Anionic, Zwitterionic, and Cationic Polyfluoroalkyl Substances in Aqueous Film-Forming Foams. <i>Environmental Science & Technology</i> , 2021, 55, 9885-9894.	10.0	40
34	Effects of humic acid on physical and hydrodynamic properties of kaolin flocs by particle image velocimetry. <i>Water Research</i> , 2011, 45, 3981-3990.	11.3	38
35	An Investigation of Thermal Air Degradation and Pyrolysis of Per- and Polyfluoroalkyl Substances and Aqueous Film-Forming Foams in Soil. <i>ACS ES&T Engineering</i> , 2022, 2, 198-209.	7.6	35
36	Effects of enhanced coagulation on polar halogenated disinfection byproducts in drinking water. <i>Separation and Purification Technology</i> , 2010, 76, 26-32.	7.9	33

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37	Effect of in situ Fe(II)/Fe(III)-doping on the visible light-Fenton-like catalytic activity of Bi/BiOBr hierarchical microspheres. <i>Catalysis Science and Technology</i> , 2017, 7, 658-667.	4.1	32
38	Effect of Adsorption Nonlinearity on the pH-Dependent Adsorption Profile of Ionizable Organic Compounds. <i>Langmuir</i> , 2014, 30, 1994-2001.	3.5	30
39	Synergistic effect of humic and fulvic acids on Ni removal by the calcined Mg/Al layered double hydroxide. <i>RSC Advances</i> , 2015, 5, 18866-18874.	3.6	29
40	Photodegradation of per- and polyfluoroalkyl substances in water: A review of fundamentals and applications. <i>Journal of Hazardous Materials</i> , 2022, 439, 129580.	12.4	29
41	Comparison of biosorbents with inorganic sorbents for removing copper(II) from aqueous solutions. <i>Journal of Environmental Management</i> , 2009, 90, 3105-3109.	7.8	28
42	Speciation characterization and coagulation of poly-silica-ferric-chloride: The role of hydrolyzed Fe(III) and silica interaction. <i>Journal of Environmental Sciences</i> , 2011, 23, 749-756.	6.1	27
43	Production of granular activated carbon by thermal air oxidation of biomass charcoal/biochar for water treatment in rural communities: A mechanistic investigation. <i>Chemical Engineering Journal Advances</i> , 2020, 4, 100035.	5.2	27
44	Private road competition and equilibrium with traffic equilibrium constraints. <i>Journal of Advanced Transportation</i> , 2009, 43, 21-45.	1.7	26
45	In Vivo Generation of PFOA, PFOS, and Other Compounds from Cationic and Zwitterionic Per- and Polyfluoroalkyl Substances in a Terrestrial Invertebrate (<i>Lumbricus terrestris</i>). <i>Environmental Science & Technology</i> , 2020, 54, 7378-7387.	10.0	26
46	Is electrophoretic mobility determination meaningful for aluminum(III) coagulation of kaolinite suspension?. <i>Journal of Colloid and Interface Science</i> , 2008, 327, 348-353.	9.4	24
47	One-step synthesis of aluminum magnesium oxide nanocomposites for simultaneous removal of arsenic and lead ions in water. <i>RSC Advances</i> , 2015, 5, 8190-8193.	3.6	24
48	Optimized coagulation pathway of Al ₁₃ : Effect of in-situ Aggregation of Al ₁₃ . <i>Chemosphere</i> , 2019, 230, 76-83.	8.2	24
49	Adsorption and desorption of nitrous oxide by raw and thermally air-oxidized chars. <i>Science of the Total Environment</i> , 2018, 643, 1436-1445.	8.0	23
50	Enhanced removal for humic-acid (HA) and coagulation process using carbon nanotubes (CNTs)/polyaluminum chloride (PACl) composites coagulants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 490, 189-199.	4.7	21
51	Investigation of the hydrodynamic behavior of diatom aggregates using particle image velocimetry. <i>Journal of Environmental Sciences</i> , 2012, 24, 1157-1164.	6.1	19
52	Predicting aqueous solubility of environmentally relevant compounds from molecular features: A simple but highly effective four-dimensional model based on Project to Latent Structures. <i>Water Research</i> , 2013, 47, 5362-5370.	11.3	17
53	The first quantitative investigation of compounds generated from PFAS, PFAS-containing aqueous film-forming foams and commercial fluorosurfactants in pyrolytic processes. <i>Journal of Hazardous Materials</i> , 2022, 436, 129313.	12.4	17
54	Perfluorooctane sulfonate (PFOS) contamination of fish in urban lakes: A prioritization methodology for lake management. <i>Water Research</i> , 2013, 47, 7264-7272.	11.3	16

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55	Effects of Al ₂ O ₃ and TiO ₂ on the coagulation process by Al ₂ (SO ₄) ₃ (AS) and poly-aluminum chloride (PACl) in kaolin suspension. Separation and Purification Technology, 2014, 124, 9-17.	7.9	16
56	Removal of active dyes by ultrafiltration membrane pre-deposited with a PSFM coagulant: Performance and mechanism. Chemosphere, 2019, 223, 204-210.	8.2	16
57	EFFICIENCY LOSS OF PRIVATE ROAD WITH CONTINUOUSLY DISTRIBUTED VALUE-OF-TIME. Transportmetrica, 2008, 4, 19-32.	1.8	15
58	Indecisiveness of electrophoretic mobility determination in evaluating Fe(III) coagulation performance. Separation and Purification Technology, 2009, 68, 273-278.	7.9	15
59	Insight into the combined colloidal-humic acid fouling on the hybrid coagulation microfiltration membrane process: The importance of aluminum. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 461, 98-104.	4.7	15
60	Thermal Decomposition of PFAS: Response to Comment on "Thermal Stability and Decomposition of Perfluoroalkyl Substances on Spent Granular Activated Carbon". Environmental Science and Technology Letters, 2021, 8, 364-365.	8.7	15
61	Investigation and visualization of internal flow through particle aggregates and microbial flocs using particle image velocimetry. Journal of Colloid and Interface Science, 2013, 397, 163-168.	9.4	14
62	Effects of different coagulants in treatment of TiO ₂ -humic acid (HA) water and the aggregate characterization in different coagulation conditions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 446, 213-223.	4.7	14
63	Relative importance of hydrolyzed Al species (Ala, Alb, Alc) on residual Al and effects of nano-particles (Fe-surface modified TiO ₂ and Al ₂ O ₃) on coagulation process. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 446, 139-150.	4.7	14
64	Characterization and treatment of Bakken oilfield produced water as a potential source of value-added elements. Science of the Total Environment, 2021, 770, 145283.	8.0	14
65	A sulfonated mesoporous silica nanoparticle for enzyme protection against denaturants and controlled release under reducing conditions. Journal of Colloid and Interface Science, 2019, 556, 292-300.	9.4	12
66	Effects of humic acid on recoverability and fractal structure of alum-kaolin flocs. Journal of Environmental Sciences, 2011, 23, 731-737.	6.1	11
67	Efficient purification of Al ₃ O by organic complexation method. Journal of Environmental Sciences, 2019, 80, 240-247.	6.1	11
68	Modeling particle-size distribution dynamics in a shear-induced breakage process with an improved breakage kernel: Importance of the internal bonds. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 468, 87-94.	4.7	10
69	Effects of post-pyrolysis air oxidation on the chemical composition of biomass chars investigated by solid-state nuclear magnetic resonance spectroscopy. Carbon, 2019, 153, 173-178.	10.3	10
70	An Overview of the Formation of PFOA and PFOS in Drinking-Water and Wastewater Treatment Processes. Journal of Environmental Engineering, ASCE, 2022, 148, .	1.4	9
71	Partitioning Characteristics of Perfluorooctane Sulfonate Between Water and Foods. Archives of Environmental Contamination and Toxicology, 2012, 62, 42-48.	4.1	8
72	Optical property of iron binding to Suwannee River fulvic acid. Chemosphere, 2013, 91, 1042-1048.	8.2	8

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73	Occurance and control of manganese in a large scale water treatment plant. <i>Frontiers of Environmental Science and Engineering</i> , 2015, 9, 66-72.	6.0	8
74	Survey of treatment process in water treatment plant and the characteristics of flocs formed by two new coagulants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 456, 211-221.	4.7	7
75	Comment on "Perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) in surface waters, sediments, soils and wastewater" A review on concentrations and distribution coefficients by Zareitalabad et al. [<i>Chemosphere</i> 91(6) (2013) 725-732]. <i>Chemosphere</i> , 2015, 138, 1056-1057.	8.2	6
76	Effects of low temperature on floc fractal dimensions and shape factors during alum coagulation. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2009, 58, 21-27.	1.4	5
77	A review of biochar functionalized by thermal air oxidation. , 2022, 1, 187-195.		4
78	Comment on "Inhibiting the regeneration of N-nitrosodimethylamine in drinking water by UV photolysis combined with ozonation" by B. Xu, Z. Chen, F. Qi, J. Ma, F. Wu [<i>J. Hazard. Mater.</i> 168 (2009) 108-114]. <i>Journal of Hazardous Materials</i> , 2009, 172, 518-519.	12.4	2
79	Practical evaluation for water utilities in China by using analytic hierarchy process. <i>Frontiers of Environmental Science and Engineering</i> , 2015, 9, 131-137.	6.0	2
80	Crystallization of aluminum polycation sulfates: transformation of tetrahedral crystals into block crystals in aqueous solutions. <i>CrystEngComm</i> , 2019, 21, 202-206.	2.6	2
81	A novel approach using a fouling index to evaluate NOM fouling behavior in a low pressure ultrafiltration process. <i>Water Science and Technology: Water Supply</i> , 2014, 14, 196-204.	2.1	1
82	Prediction of biopersistence of hydrocarbons using a single parameter. <i>Chemosphere</i> , 2018, 213, 76-83.	8.2	1