

Feng Xiao

List of Publications by Year in descending order

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times ranked

5378
citing authors

#	ARTICLE	IF	CITATIONS
1	An Investigation of Thermal Air Degradation and Pyrolysis of Per- and Polyfluoroalkyl Substances and Aqueous Film-Forming Foams in Soil. ACS ES&T Engineering, 2022, 2, 198-209.	3.7	35
2	An Overview of the Formation of PFOA and PFOS in Drinking-Water and Wastewater Treatment Processes. Journal of Environmental Engineering, ASCE, 2022, 148, .	0.7	9
3	Communicating Confidence of Per- and Polyfluoroalkyl Substance Identification via High-Resolution Mass Spectrometry. Environmental Science and Technology Letters, 2022, 9, 473-481.	3.9	61
4	A review of biochar functionalized by thermal air oxidation. , 2022, 1, 187-195.		4
5	The first quantitative investigation of compounds generated from PFAS, PFAS-containing aqueous film-forming foams and commercial fluorosurfactants in pyrolytic processes. Journal of Hazardous Materials, 2022, 436, 129313.	6.5	17
6	Photodegradation of per- and polyfluoroalkyl substances in water: A review of fundamentals and applications. Journal of Hazardous Materials, 2022, 439, 129580.	6.5	29
7	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.	3.9	15
8	Characterization and treatment of Bakken oilfield produced water as a potential source of value-added elements. Science of the Total Environment, 2021, 770, 145283.	3.9	14
9	Thermal Decomposition of Anionic, Zwitterionic, and Cationic Polyfluoroalkyl Substances in Aqueous Film-Forming Foams. Environmental Science & Technology, 2021, 55, 9885-9894.	4.6	40
10	Effect of granular activated carbon and other porous materials on thermal decomposition of per- and polyfluoroalkyl substances: Mechanisms and implications for water purification. Water Research, 2021, 200, 117271.	5.3	48
11	Production of granular activated carbon by thermal air oxidation of biomass charcoal/biochar for water treatment in rural communities: A mechanistic investigation. Chemical Engineering Journal Advances, 2020, 4, 100035.	2.4	27
12	Thermal Stability and Decomposition of Perfluoroalkyl Substances on Spent Granular Activated Carbon. Environmental Science and Technology Letters, 2020, 7, 343-350.	3.9	127
13	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>). Environmental Science & Technology, 2020, 54, 7378-7387.	4.6	26
14	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.	5.0	12
15	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.	5.4	10
16	Sorption and Desorption Mechanisms of Cationic and Zwitterionic Per- and Polyfluoroalkyl Substances in Natural Soils: Thermodynamics and Hysteresis. Environmental Science & Technology, 2019, 53, 11818-11827.	4.6	105
17	Crystallization of aluminum polycation sulfates: transformation of tetrahedral crystals into block crystals in aqueous solutions. CrystEngComm, 2019, 21, 202-206.	1.3	2
18	Optimized coagulation pathway of Al13: Effect of in-situ Aggregation of Al13. Chemosphere, 2019, 230, 76-83.	4.2	24

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19	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.	4.0	59
20	Removal of active dyes by ultrafiltration membrane pre-deposited with a PSFM coagulant: Performance and mechanism. <i>Chemosphere</i> , 2019, 223, 204-210.	4.2	16
21	Efficient purification of Al ₃₀ by organic complexation method. <i>Journal of Environmental Sciences</i> , 2019, 80, 240-247.	3.2	11
22	Thermal air oxidation changes surface and adsorptive properties of black carbon (char/biochar). <i>Science of the Total Environment</i> , 2018, 618, 276-283.	3.9	51
23	How Do Enzymes Orient When Trapped on Metal-Organic Framework (MOF) Surfaces?. <i>Journal of the American Chemical Society</i> , 2018, 140, 16032-16036.	6.6	138
24	Prediction of biopersistence of hydrocarbons using a single parameter. <i>Chemosphere</i> , 2018, 213, 76-83.	4.2	1
25	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.	3.9	71
26	Adsorption and desorption of nitrous oxide by raw and thermally air-oxidized chars. <i>Science of the Total Environment</i> , 2018, 643, 1436-1445.	3.9	23
27	Novel Al-doped carbon nanotubes with adsorption and coagulation promotion for organic pollutant removal. <i>Journal of Environmental Sciences</i> , 2017, 54, 1-12.	3.2	104
28	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.	2.1	32
29	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.	2.6	75
30	Emerging poly- and perfluoroalkyl substances in the aquatic environment: A review of current literature. <i>Water Research</i> , 2017, 124, 482-495.	5.3	417
31	Sorption of ionizable and ionic organic compounds to biochar, activated carbon and other carbonaceous materials. <i>Water Research</i> , 2017, 124, 673-692.	5.3	312
32	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.	4.6	88
33	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.	6.5	123
34	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.	2.3	21
35	Modeling particle-size distribution dynamics in a shear-induced breakage process with an improved breakage kernel: Importance of the internal bonds. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 468, 87-94.	2.3	10
36	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.	1.7	29

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37	Interactions between (Hetero)aromatic Amine Cations and the Graphitic Surfaces of Pyrogenic Carbonaceous Materials. <i>Environmental Science & Technology</i> , 2015, 49, 906-914.	4.6	105
38	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.	5.3	244
39	Interactions of triazine herbicides with biochar: Steric and electronic effects. <i>Water Research</i> , 2015, 80, 179-188.	5.3	127
40	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.	7.0	119
41	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.	1.7	24
42	Occurance and control of manganese in a large scale water treatment plant. <i>Frontiers of Environmental Science and Engineering</i> , 2015, 9, 66-72.	3.3	8
43	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.	4.2	6
44	Practical evaluation for water utilities in China by using analytic hierarchy process. <i>Frontiers of Environmental Science and Engineering</i> , 2015, 9, 131-137.	3.3	2
45	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. <i>Separation and Purification Technology</i> , 2014, 124, 9-17.	3.9	16
46	Insight into the combined colloidal-humic acid fouling on the hybrid coagulation microfiltration membrane process: The importance of aluminum. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 461, 98-104.	2.3	15
47	Effect of Adsorption Nonlinearity on the pH-Dependent Adsorption Profile of Ionizable Organic Compounds. <i>Langmuir</i> , 2014, 30, 1994-2001.	1.6	30
48	Effects of different coagulants in treatment of TiO ₂ -humic acid (HA) water and the aggregate characterization in different coagulation conditions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 446, 213-223.	2.3	14
49	Relative importance of hydrolyzed Al species (Al _a , Al _b , Al _c) on residual Al and effects of nano-particles (Fe-surface modified TiO ₂ and Al ₂ O ₃) on coagulation process. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 446, 139-150.	2.3	14
50	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.	3.9	79
51	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.	2.3	7
52	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.	1.0	1
53	Perfluorooctane sulfonate (PFOS) contamination of fish in urban lakes: A prioritization methodology for lake management. <i>Water Research</i> , 2013, 47, 7264-7272.	5.3	16
54	Disinfection byproduct precursor removal by enhanced coagulation and their distribution in chemical fractions. <i>Journal of Environmental Sciences</i> , 2013, 25, 2207-2213.	3.2	43

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55	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.	5.3	180
56	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.	5.3	17
57	Investigation and visualization of internal flow through particle aggregates and microbial flocs using particle image velocimetry. <i>Journal of Colloid and Interface Science</i> , 2013, 397, 163-168.	5.0	14
58	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.	4.6	78
59	Optical property of iron binding to Suwannee River fulvic acid. <i>Chemosphere</i> , 2013, 91, 1042-1048.	4.2	8
60	Investigation of the hydrodynamic behavior of diatom aggregates using particle image velocimetry. <i>Journal of Environmental Sciences</i> , 2012, 24, 1157-1164.	3.2	19
61	Perfluoroalkyl acids in urban stormwater runoff: Influence of land use. <i>Water Research</i> , 2012, 46, 6601-6608.	5.3	88
62	Input characterization of perfluoroalkyl substances in wastewater treatment plants: Source discrimination by exploratory data analysis. <i>Water Research</i> , 2012, 46, 3101-3109.	5.3	137
63	New Halogenated Disinfection Byproducts in Swimming Pool Water and Their Permeability across Skin. <i>Environmental Science & Technology</i> , 2012, 46, 7112-7119.	4.6	96
64	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.	5.0	57
65	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.	3.9	81
66	Partitioning Characteristics of Perfluorooctane Sulfonate Between Water and Foods. <i>Archives of Environmental Contamination and Toxicology</i> , 2012, 62, 42-48.	2.1	8
67	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.	4.6	172
68	Effects of humic acid on physical and hydrodynamic properties of kaolin flocs by particle image velocimetry. <i>Water Research</i> , 2011, 45, 3981-3990.	5.3	38
69	Effects of humic acid on recoverability and fractal structure of alum-kaolin flocs. <i>Journal of Environmental Sciences</i> , 2011, 23, 731-737.	3.2	11
70	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.	3.2	27
71	Effects of enhanced coagulation on polar halogenated disinfection byproducts in drinking water. <i>Separation and Purification Technology</i> , 2010, 76, 26-32.	3.9	33
72	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.	4.0	82

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73	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.	0.6	5
74	Private road competition and equilibrium with traffic equilibrium constraints. <i>Journal of Advanced Transportation</i> , 2009, 43, 21-45.	0.9	26
75	Comparison of biosorbents with inorganic sorbents for removing copper(II) from aqueous solutions. <i>Journal of Environmental Management</i> , 2009, 90, 3105-3109.	3.8	28
76	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.	6.5	2
77	Indecisiveness of electrophoretic mobility determination in evaluating Fe(III) coagulation performance. <i>Separation and Purification Technology</i> , 2009, 68, 273-278.	3.9	15
78	Effects of low temperature on coagulation kinetics and floc surface morphology using alum. <i>Desalination</i> , 2009, 237, 201-213.	4.0	75
79	Is electrophoretic mobility determination meaningful for aluminum(III) coagulation of kaolinite suspension?. <i>Journal of Colloid and Interface Science</i> , 2008, 327, 348-353.	5.0	24
80	Effects of low temperature on aluminum(III) hydrolysis: Theoretical and experimental studies. <i>Journal of Environmental Sciences</i> , 2008, 20, 907-914.	3.2	53
81	Effects of low temperature on coagulation of kaolinite suspensions. <i>Water Research</i> , 2008, 42, 2983-2992.	5.3	58
82	EFFICIENCY LOSS OF PRIVATE ROAD WITH CONTINUOUSLY DISTRIBUTED VALUE-OF-TIME. <i>Transportmetrica</i> , 2008, 4, 19-32.	1.8	15