

Feng Xiao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

77
papers

3,085
citations

30
h-index

54
g-index

87
ext. papers

3,752
ext. citations

8.7
avg, IF

6.1
L-index

#	Paper	IF	Citations
77	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		6
76	Characterization and treatment of Bakken oilfield produced water as a potential source of value-added elements. <i>Science of the Total Environment</i> , 2021 , 770, 145283	10.2	4
75	Thermal Decomposition of Anionic, Zwitterionic, and Cationic Polyfluoroalkyl Substances in Aqueous Film-Forming Foams. <i>Environmental Science & Technology</i> , 2021 , 55, 9885-9894	10.3	7
74	Thermal Decomposition of PFAS: Response to Comment on "Thermal Stability and Decomposition of Perfluoroalkyl Substances on Spent Granular Activated Carbon" <i>Environmental Science and Technology Letters</i> , 2021 , 8, 364-365	11	7
73	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	12.5	19
72	Thermal Stability and Decomposition of Perfluoroalkyl Substances on Spent Granular Activated Carbon. <i>Environmental Science and Technology Letters</i> , 2020 , 7, 343-350	11	50
71	In Vivo Generation of PFOA, PFOS, and Other Compounds from Cationic and Zwitterionic Per- and Polyfluoroalkyl Substances in a Terrestrial Invertebrate (). <i>Environmental Science & Technology</i> , 2020 , 54, 7378-7387	10.3	13
70	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	3.6	7
69	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	10.3	57
68	Crystallization of aluminum polycation sulfates: transformation of tetrahedral crystals into block crystals in aqueous solutions. <i>CrystEngComm</i> , 2019 , 21, 202-206	3.3	2
67	Optimized coagulation pathway of Al: Effect of in-situ Aggregation of Al. <i>Chemosphere</i> , 2019 , 230, 76-838.4		14
66	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	9.5	37
65	Removal of active dyes by ultrafiltration membrane pre-deposited with a PSFM coagulant: Performance and mechanism. <i>Chemosphere</i> , 2019 , 223, 204-210	8.4	14
64	A sulfonated mesoporous silica nanoparticle for enzyme protection against denaturants and controlled release under reducing conditions. <i>Journal of Colloid and Interface Science</i> , 2019 , 556, 292-300	9.3	11
63	Effects of post-pyrolysis air oxidation on the chemical composition of biomass chars investigated by solid-state nuclear magnetic resonance spectroscopy. <i>Carbon</i> , 2019 , 153, 173-178	10.4	4
62	Efficient purification of Al by organic complexation method. <i>Journal of Environmental Sciences</i> , 2019 , 80, 240-247	6.4	5
61	Adsorption and desorption of nitrous oxide by raw and thermally air-oxidized chars. <i>Science of the Total Environment</i> , 2018 , 643, 1436-1445	10.2	13

60	Thermal air oxidation changes surface and adsorptive properties of black carbon (char/biochar). <i>Science of the Total Environment</i> , 2018 , 618, 276-283	10.2	35
59	How Do Enzymes Orient When Trapped on Metal-Organic Framework (MOF) Surfaces?. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16032-16036	16.4	89
58	Prediction of biopersistence of hydrocarbons using a single parameter. <i>Chemosphere</i> , 2018 , 213, 76-83	8.4	1
57	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	11	38
56	Novel Al-doped carbon nanotubes with adsorption and coagulation promotion for organic pollutant removal. <i>Journal of Environmental Sciences</i> , 2017 , 54, 1-12	6.4	74
55	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	5.5	21
54	Identification of novel non-ionic, cationic, zwitterionic, and anionic polyfluoroalkyl substances using UPLC-TOF-MS high-resolution parent ion search. <i>Analytica Chimica Acta</i> , 2017 , 988, 41-49	6.6	49
53	Emerging poly- and perfluoroalkyl substances in the aquatic environment: A review of current literature. <i>Water Research</i> , 2017 , 124, 482-495	12.5	272
52	Sorption of ionizable and ionic organic compounds to biochar, activated carbon and other carbonaceous materials. <i>Water Research</i> , 2017 , 124, 673-692	12.5	211
51	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	12.8	95
50	Enhanced removal for humic-acid (HA) and coagulation process using carbon nanotubes (CNTs)/polyaluminium chloride (PACl) composites coagulants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 490, 189-199	5.1	18
49	Effects of Post-Pyrolysis Air Oxidation of Biomass Chars on Adsorption of Neutral and Ionizable Compounds. <i>Environmental Science & Technology</i> , 2016 , 50, 6276-83	10.3	68
48	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	12.5	174
47	Interactions of triazine herbicides with biochar: Steric and electronic effects. <i>Water Research</i> , 2015 , 80, 179-88	12.5	96
46	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	14.3	81
45	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	3.7	21
44	Occurance and control of manganese in a large scale water treatment plant. <i>Frontiers of Environmental Science and Engineering</i> , 2015 , 9, 66-72	5.8	6
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. [Chemosphere 91(6) (2013) 725-732]. <i>Chemosphere</i> , 2015 , 138, 1056-7	8.4	6

42	Practical evaluation for water utilities in China by using analytic hierarchy process. <i>Frontiers of Environmental Science and Engineering</i> , 2015 , 9, 131-137	5.8	2
41	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	5.1	10
40	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	3.7	20
39	π - π Interactions between (hetero)aromatic amine cations and the graphitic surfaces of pyrogenic carbonaceous materials. <i>Environmental Science & Technology</i> , 2015 , 49, 906-14	10.3	81
38	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	8.3	15
37	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	5.1	11
36	Effect of adsorption nonlinearity on the pH-adsorption profile of ionizable organic compounds. <i>Langmuir</i> , 2014 , 30, 1994-2001	4	28
35	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	5.1	14
34	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. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 446, 139-150	5.1	13
33	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	8.3	63
32	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, 211-227	5.1	6
31	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	1.4	1
30	Perfluorooctane sulfonate (PFOS) contamination of fish in urban lakes: a prioritization methodology for lake management. <i>Water Research</i> , 2013 , 47, 7264-72	12.5	14
29	Disinfection byproduct precursor removal by enhanced coagulation and their distribution in chemical fractions. <i>Journal of Environmental Sciences</i> , 2013 , 25, 2207-13	6.4	28
28	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	12.5	141
27	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, 5362-70	12.5	11
26	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, 163-8	9.3	10
25	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, 4704-10	10.3	70

24	Optical property of iron binding to Suwannee River fulvic acid. <i>Chemosphere</i> , 2013 , 91, 1042-8	8.4	7
23	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, 505-11	9.3	47
22	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	8.3	72
21	Partitioning characteristics of perfluorooctane sulfonate between water and foods. <i>Archives of Environmental Contamination and Toxicology</i> , 2012 , 62, 42-8	3.2	8
20	Investigation of the hydrodynamic behavior of diatom aggregates using particle image velocimetry. <i>Journal of Environmental Sciences</i> , 2012 , 24, 1157-64	6.4	16
19	Perfluoroalkyl acids in urban stormwater runoff: influence of land use. <i>Water Research</i> , 2012 , 46, 6601-8	12.5	67
18	Input characterization of perfluoroalkyl substances in wastewater treatment plants: source discrimination by exploratory data analysis. <i>Water Research</i> , 2012 , 46, 3101-9	12.5	107
17	New halogenated disinfection byproducts in swimming pool water and their permeability across skin. <i>Environmental Science & Technology</i> , 2012 , 46, 7112-9	10.3	73
16	Effects of humic acid on physical and hydrodynamic properties of kaolin flocs by particle image velocimetry. <i>Water Research</i> , 2011 , 45, 3981-90	12.5	27
15	Effects of humic acid on recoverability and fractal structure of alum-kaolin flocs. <i>Journal of Environmental Sciences</i> , 2011 , 23, 731-7	6.4	9
14	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, 749-56	6.4	20
13	Effects of monovalent cations on the competitive adsorption of perfluoroalkyl acids by kaolinite: experimental studies and modeling. <i>Environmental Science & Technology</i> , 2011 , 45, 10028-35	10.3	116
12	Effects of enhanced coagulation on polar halogenated disinfection byproducts in drinking water. <i>Separation and Purification Technology</i> , 2010 , 76, 26-32	8.3	31
11	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	10.3	70
10	Effects of low temperature on floc fractal dimensions and shape factors during alum coagulation 2009 , 58, 21-27		4
9	Private road competition and equilibrium with traffic equilibrium constraints. <i>Journal of Advanced Transportation</i> , 2009 , 43, 21-45	1.9	24
8	Comparison of biosorbents with inorganic sorbents for removing copper(II) from aqueous solutions. <i>Journal of Environmental Management</i> , 2009 , 90, 3105-9	7.9	24
7	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 [J. Hazard. Mater. 168 (2009) 108-114]. <i>Journal of Hazardous Materials</i> , 2009 , 172, 518-9	12.8	2

6	Indecisiveness of electrophoretic mobility determination in evaluating Fe(III) coagulation performance. <i>Separation and Purification Technology</i> , 2009 , 68, 273-278	8.3	12
5	Effects of low temperature on coagulation kinetics and floc surface morphology using alum. <i>Desalination</i> , 2009 , 237, 201-213	10.3	59
4	Effects of low temperature on aluminum(III) hydrolysis: theoretical and experimental studies. <i>Journal of Environmental Sciences</i> , 2008 , 20, 907-14	6.4	38
3	Effects of low temperature on coagulation of kaolinite suspensions. <i>Water Research</i> , 2008 , 42, 2983-92	12.5	49
2	EFFICIENCY LOSS OF PRIVATE ROAD WITH CONTINUOUSLY DISTRIBUTED VALUE-OF-TIME. <i>Transportmetrica</i> , 2008 , 4, 19-32		14
1	Is electrophoretic mobility determination meaningful for aluminum(III) coagulation of kaolinite suspension?. <i>Journal of Colloid and Interface Science</i> , 2008 , 327, 348-53	9.3	20