

Feng Xiao

List of Publications by Year in descending order

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82
papers

4,505
citations

117625
34
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106344
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all docs

87
docs citations

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times ranked

4807
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. | 7.6 | 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, . | 1.4 | 9 |
| 3 | Communicating Confidence of Per- and Polyfluoroalkyl Substance Identification via High-Resolution Mass Spectrometry. Environmental Science and Technology Letters, 2022, 9, 473-481. | 8.7 | 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. | 12.4 | 17 |
| 6 | Photodegradation of per- and polyfluoroalkyl substances in water: A review of fundamentals and applications. Journal of Hazardous Materials, 2022, 439, 129580. | 12.4 | 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. | 8.7 | 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. | 8.0 | 14 |
| 9 | Thermal Decomposition of Anionic, Zwitterionic, and Cationic Polyfluoroalkyl Substances in Aqueous Film-Forming Foams. Environmental Science & Technology, 2021, 55, 9885-9894. | 10.0 | 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. | 11.3 | 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. | 5.2 | 27 |
| 12 | Thermal Stability and Decomposition of Perfluoroalkyl Substances on Spent Granular Activated Carbon. Environmental Science and Technology Letters, 2020, 7, 343-350. | 8.7 | 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. | 10.0 | 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. | 9.4 | 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. | 10.3 | 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. | 10.0 | 105 |
| 17 | Crystallization of aluminum polycation sulfates: transformation of tetrahedral crystals into block crystals in aqueous solutions. CrystEngComm, 2019, 21, 202-206. | 2.6 | 2 |
| 18 | Optimized coagulation pathway of Al13: Effect of in-situ Aggregation of Al13. Chemosphere, 2019, 230, 76-83. | 8.2 | 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. | 8.0 | 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. | 8.2 | 16 |
| 21 | Efficient purification of Al ₃₀ by organic complexation method. <i>Journal of Environmental Sciences</i> , 2019, 80, 240-247. | 6.1 | 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. | 8.0 | 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. | 13.7 | 138 |
| 24 | Prediction of biopersistence of hydrocarbons using a single parameter. <i>Chemosphere</i> , 2018, 213, 76-83. | 8.2 | 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. | 8.7 | 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. | 8.0 | 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. | 6.1 | 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. | 4.1 | 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. | 5.4 | 75 |
| 30 | 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 |
| 31 | 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 |
| 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. | 10.0 | 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. | 12.4 | 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. | 4.7 | 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. | 4.7 | 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. | 3.6 | 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. | 10.0 | 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. | 11.3 | 244 |
| 39 | Interactions of triazine herbicides with biochar: Steric and electronic effects. <i>Water Research</i> , 2015, 80, 179-188. | 11.3 | 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. | 14.7 | 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. | 3.6 | 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. | 6.0 | 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. | 8.2 | 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. | 6.0 | 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. | 7.9 | 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. | 4.7 | 15 |
| 47 | Effect of Adsorption Nonlinearity on the pH-Dependent Adsorption Profile of Ionizable Organic Compounds. <i>Langmuir</i> , 2014, 30, 1994-2001. | 3.5 | 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. | 4.7 | 14 |
| 49 | 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. | 4.7 | 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. | 7.9 | 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. | 4.7 | 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. | 2.1 | 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. | 11.3 | 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. | 6.1 | 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. | 11.3 | 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. | 11.3 | 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. | 9.4 | 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. | 10.0 | 78 |
| 59 | Optical property of iron binding to Suwannee River fulvic acid. <i>Chemosphere</i> , 2013, 91, 1042-1048. | 8.2 | 8 |
| 60 | Investigation of the hydrodynamic behavior of diatom aggregates using particle image velocimetry. <i>Journal of Environmental Sciences</i> , 2012, 24, 1157-1164. | 6.1 | 19 |
| 61 | Perfluoroalkyl acids in urban stormwater runoff: Influence of land use. <i>Water Research</i> , 2012, 46, 6601-6608. | 11.3 | 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. | 11.3 | 137 |
| 63 | New Halogenated Disinfection Byproducts in Swimming Pool Water and Their Permeability across Skin. <i>Environmental Science & Technology</i> , 2012, 46, 7112-7119. | 10.0 | 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. | 9.4 | 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. | 7.9 | 81 |
| 66 | Partitioning Characteristics of Perfluorooctane Sulfonate Between Water and Foods. <i>Archives of Environmental Contamination and Toxicology</i> , 2012, 62, 42-48. | 4.1 | 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. | 10.0 | 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. | 11.3 | 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. | 6.1 | 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. | 6.1 | 27 |
| 71 | 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 |
| 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. | 8.2 | 82 |

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|----|--|------|-----------|
| 73 | Effects of low temperature on floc fractal dimensions and shape factors during alum coagulation. Journal of Water Supply: Research and Technology - AQUA, 2009, 58, 21-27. | 1.4 | 5 |
| 74 | Private road competition and equilibrium with traffic equilibrium constraints. Journal of Advanced Transportation, 2009, 43, 21-45. | 1.7 | 26 |
| 75 | Comparison of biosorbents with inorganic sorbents for removing copper(II) from aqueous solutions. Journal of Environmental Management, 2009, 90, 3105-3109. | 7.8 | 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 [J. Hazard. Mater. 168 (2009) 108-114]. Journal of Hazardous Materials, 2009, 172, 518-519. | 12.4 | 2 |
| 77 | Indecisiveness of electrophoretic mobility determination in evaluating Fe(III) coagulation performance. Separation and Purification Technology, 2009, 68, 273-278. | 7.9 | 15 |
| 78 | Effects of low temperature on coagulation kinetics and floc surface morphology using alum. Desalination, 2009, 237, 201-213. | 8.2 | 75 |
| 79 | Is electrophoretic mobility determination meaningful for aluminum(III) coagulation of kaolinite suspension?. Journal of Colloid and Interface Science, 2008, 327, 348-353. | 9.4 | 24 |
| 80 | Effects of low temperature on aluminum(III) hydrolysis: Theoretical and experimental studies. Journal of Environmental Sciences, 2008, 20, 907-914. | 6.1 | 53 |
| 81 | Effects of low temperature on coagulation of kaolinite suspensions. Water Research, 2008, 42, 2983-2992. | 11.3 | 58 |
| 82 | EFFICIENCY LOSS OF PRIVATE ROAD WITH CONTINUOUSLY DISTRIBUTED VALUE-OF-TIME. Transportmetrica, 2008, 4, 19-32. | 1.8 | 15 |