# Jinxia Liu

List of Publications by Year
in descending order



| 63 | 4,138 | 87888 38 | 114465 63 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 63 | 63 | 63 | 2772 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Microbial degradation of polyfluoroalkyl chemicals in the environment: A review. Environment International, 2013, 61, 98-114. | 10.0 | 354 |
| 2 | 6:2 Fluorotelomer sulfonate aerobic biotransformation in activated sludge of waste water treatment plants. Chemosphere, 2011, 82, 853-858. | 8.2 | 234 |
| 3 | Worldwide drinking water occurrence and levels of newly-identified perfluoroalkyl and polyfluoroalkyl substances. Science of the Total Environment, 2018, 616-617, 1089-1100. | 8.0 | 202 |
| 4 | 6-2 Fluorotelomer alcohol aerobic biodegradation in soil and mixed bacterial culture. Chemosphere, 2010, 78, 437-444. | 8.2 | 157 |
| 5 | Production of PFOS from aerobic soil biotransformation of two perfluoroalkyl sulfonamide derivatives. Chemosphere, 2015, 119, 1084-1090. | 8.2 | 146 |
| 6 | Analysis of F-53B, Gen-X, ADONA, and emerging fluoroalkylether substances in environmental and biomonitoring samples: A review. Trends in Environmental Analytical Chemistry, 2019, 23, e00066. | 10.3 | 123 |
| 7 | Biotransformation of 8:2 Fluorotelomer Alcohol in Soil and by Soil Bacteria Isolates. Environmental Science & Technology, 2007, 41, 8024-8030. | 10.0 | 120 |
| 8 | Degradation of aniline in aqueous solution using non-thermal plasma generated in microbubbles. Chemical Engineering Journal, 2018, 345, 679-687. | 12.7 | 120 |
| 9 | Generation of Perfluoroalkyl Acids from Aerobic Biotransformation of Quaternary Ammonium Polyfluoroalkyl Surfactants. Environmental Science & Technology, 2016, 50, 9923-9932. | 10.0 | 118 |
| 10 | Degradation and defluorination of 6:2 fluorotelomer sulfonamidoalkyl betaine and 6:2 fluorotelomer sulfonate by Gordonia sp. strain NB4-1Y under sulfur-limiting conditions. Science of the Total Environment, 2019, 647, 690-698. | 8.0 | 115 |
| 11 | Zwitterionic, cationic, and anionic perfluoroalkyl and polyfluoroalkyl substances integrated into total oxidizable precursor assay of contaminated groundwater. Talanta, 2019, 195, 533-542. | 5.5 | 111 |
| 12 | Novel Fluoroalkylated Surfactants in Soils Following Firefighting Foam Deployment During the Lac-MÃ©gantic Railway Accident. Environmental Science & Technology, 2017, 51, 8313-8323. | 10.0 | 98 |
| 13 | Environmental Occurrence of Perfluoroalkyl Acids and Novel Fluorotelomer Surfactants in the Freshwater Fish Catostomus commersonii and Sediments Following Firefighting Foam Deployment at the Lac-MÃ©gantic Railway Accident. Environmental Science & Technology, 2017, 51, 1231-1240. | 10.0 | 97 |
| 14 | ZÃ¼rich Statement on Future Actions on Per- and Polyfluoroalkyl Substances (PFASs). Environmental Health Perspectives, 2018, 126, 84502. | 6.0 | 91 |
| 15 | New Insights into the Degradation Mechanism of Perfluorooctanoic Acid by Persulfate from Density Functional Theory and Experimental Data. Environmental Science & Technology, 2019, 53, 8672-8681. | 10.0 | 91 |
| 16 | Occurrence and Distribution of Per- and Polyfluoroalkyl Substances in Tianjin, China: The Contribution of Emerging and Unknown Analogues. Environmental Science & Technology, 2020, 54, 14254-14264. | 10.0 | 85 |
| 17 | Analysis of zwitterionic, cationic, and anionic poly- and perfluoroalkyl surfactants in sediments by liquid chromatography polarity-switching electrospray ionization coupled to high resolution mass spectrometry. Talanta, 2016, 152, 447-456. | 5.5 | 82 |
| 18 | Sorption of Polyfluoroalkyl Surfactants on Surface Soils: Effect of Molecular Structures, Soil Properties, and Solution Chemistry. Environmental Science & Technology, 2020, 54, 1513-1521. | 10.0 | 80 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Aerobic biotransformation of polyfluoroalkyl phosphate esters (PAPs) in soil. Environmental Pollution, 2016, 212, 230-237. | 7.5 | 77 |
| 20 | Solubility and Sorption by Soils of 8:2 Fluorotelomer Alcohol in Water and Cosolvent Systems. Environmental Science & Technology, 2005, 39, 7535-7540. | 10.0 | 75 |
| 21 | Adsorption of perfluoroalkyl acids by carbonaceous adsorbents: Effect of carbon surface chemistry. Environmental Pollution, 2015, 202, 168-176. | 7.5 | 72 |
| 22 | Aerobic biodegradation of [14C] 6:2 fluorotelomer alcohol in a flow-through soil incubation system. Chemosphere, 2010, 80, 716-723. | 8.2 | 70 |
| 23 | Sorption and desorption of anionic, cationic and zwitterionic polyfluoroalkyl substances by soil organic matter and pyrogenic carbonaceous materials. Chemical Engineering Journal, 2018, 346, 682-691. | 12.7 | 70 |
| 24 | Target and Nontarget Screening of PFAS in Biosolids, Composts, and Other Organic Waste Products for Land Application in France. Environmental Science & Technology, 2022, 56, 6056-6068. | 10.0 | 70 |
| 25 | Fate and transport of per- and polyfluoroalkyl substances (PFASs) in the vadose zone. Science of the Total Environment, 2021, 771, 145427. | 8.0 | 69 |
| 26 | Enhancing Interface Reactions by Introducing Microbubbles into a Plasma Treatment Process for Efficient Decomposition of PFOA. Environmental Science & Technology, 2021, 55, 16067-16077. | 10.0 | 69 |
| 27 | Surface modification of activated carbon for enhanced adsorption of perfluoroalkyl acids from aqueous solutions. Chemosphere, 2016, 144, 1224-1232. | 8.2 | 67 |
| 28 | Optimization of extraction methods for comprehensive profiling of perfluoroalkyl and polyfluoroalkyl substances in firefighting foam impacted soils. Analytica Chimica Acta, 2018, 1034, 74-84. | 5.4 | 63 |
| 29 | Effect of Fluorotelomer Alcohol Chain Length on Aqueous Solubility and Sorption by Soils. Environmental Science & Technology, 2007, 41, 5357-5362. | 10.0 | 62 |
| 30 | Molecular mechanisms of per- and polyfluoroalkyl substances on a modified clay: a combined experimental and molecular simulation study. Water Research, 2020, 184, 116166. | 11.3 | 62 |
| 31 | Aerobic Soil Biodegradation of 8:2 Fluorotelomer Stearate Monoester. Environmental Science & Technology, 2012, 46, 3831-3836. | 10.0 | 55 |
| 32 | Remediation of soil contaminated by fluorene using needle-plate pulsed corona discharge plasma. Chemical Engineering Journal, 2018, 334, 2124-2133. | 12.7 | 50 |
| 33 | Transformation of 6:2 Fluorotelomer Sulfonate by Cobalt(II)-Activated Peroxymonosulfate. Environmental Science & Technology, 2020, 54, 4631-4640. | 10.0 | 49 |
| 34 | Environmental Sources, Chemistry, Fate, and Transport of Perâ€•and Polyfluoroalkyl Substances: State of the Science, Key Knowledge Gaps, and Recommendations Presented at the August 2019 SETAC Focus Topic Meeting. Environmental Toxicology and Chemistry, 2021, 40, 3234-3260. | 4.3 | 49 |
| 35 | Per- and Polyfluoroalkyl Substances in Contaminated Soil and Groundwater at Airports: A Canadian Case Study. Environmental Science & Technology, 2022, 56, 885-895. | 10.0 | 47 |
| 36 | Assessment of the Influence of Soil Characteristics and Hydrocarbon Fuel Cocontamination on the Solvent Extraction of Perfluoroalkyl and Polyfluoroalkyl Substances. Analytical Chemistry, 2017, 89, 2539-2546. | 6.5 | 46 |

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|---|---|---|---|
| 37 | Transformation of novel polyfluoroalkyl substances (PFASs) as co-contaminants during biopile remediation of petroleum hydrocarbons. Journal of Hazardous Materials, 2019, 362, 140-147. | 12.4 | 43 |
| 38 | Quantitative analysis of poly- and perfluoroalkyl compounds in water matrices using high resolution mass spectrometry: Optimization for a laser diode thermal desorption method. Analytica Chimica Acta, 2015, 881, 98-106. | 5.4 | 40 |
| 39 | Kinetic analysis of aerobic biotransformation pathways of a perfluorooctane sulfonate (PFOS) precursor in distinctly different soils. Environmental Pollution, 2017, 229, 159-167. | 7.5 | 38 |
| 40 | Sorption of Perfluoroalkyl Acids to Fresh and Aged Nanoscale Zerovalent Iron Particles. Environmental Science & Technology, 2018, 52, 6300-6308. | 10.0 | 37 |
| 41 | Bioaccumulation and trophic magnification of emerging and legacy per- and polyfluoroalkyl substances (PFAS) in a St. Lawrence River food web. Environmental Pollution, 2022, 309, 119739. | 7.5 | 35 |
| 42 | Isomer-specific biotransformation of perfluoroalkyl sulfonamide compounds in aerobic soil. Science of the Total Environment, 2019, 651, 766-774. | 8.0 | 34 |
| 43 | Stability of Nitrogen-Containing Polyfluoroalkyl Substances in Aerobic Soils. Environmental Science & Technology, 2021, 55, 4698-4708. | 10.0 | 34 |
| 44 | A portable lab-on-a-chip system for gold-nanoparticle-based colorimetric detection of metal ions in water. Biomicrofluidics, 2014, 8, 052107. | 2.4 | 33 |
| 45 | Bioaccumulation of Zwitterionic Polyfluoroalkyl Substances in Earthworms Exposed to Aqueous Film-Forming Foam Impacted Soils. Environmental Science & Technology, 2020, 54, 1687-1697. | 10.0 | 31 |
| 46 | Fast Generation of Perfluoroalkyl Acids from Polyfluoroalkyl Amine Oxides in Aerobic Soils. Environmental Science and Technology Letters, 2020, 7, 714-720. | 8.7 | 26 |
| 47 | STXM-XANES and computational investigations of adsorption of per- and polyfluoroalkyl substances on modified clay. Water Research, 2021, 201, 117371. | 11.3 | 22 |
| 48 | A Fast Colourimetric Assay for Lead Detection Using Label-Free Gold Nanoparticles (AuNPs). Micromachines, 2015, 6, 462-472. | 2.9 | 21 |
| 49 | Density Functional Theory Calculations Decipher Complex Reaction Pathways of 6:2 Fluorotelomer Sulfonate to Perfluoroalkyl Carboxylates Initiated by Hydroxyl Radical. Environmental Science & Technology, 2021, 55, 16655-16664. | 10.0 | 21 |
| 50 | Removal of Zwitterionic PFAS by MXenes: Comparisons with Anionic, Nonionic, and PFAS-Specific Resins. Environmental Science & Technology, 2022, 56, 6212-6222. | 10.0 | 21 |
| 51 | Microbial biotransformation of aqueous film-forming foam derived polyfluoroalkyl substances. Science of the Total Environment, 2022, 824, 153711. | 8.0 | 20 |
| 52 | Adhesion ofPseudomonas fluorescensonto nanophase materials. Nanotechnology, 2005, 16, S449-S457. | 2.6 | 18 |
| 53 | Hydrolysis of fluorotelomer compounds leading to fluorotelomer alcohol production during solvent extractions of soils. Chemosphere, 2010, 81, 911-917. | 8.2 | 18 |
| 54 | Novel and legacy per- and polyfluoroalkyl substances (PFAS) in freshwater sporting fish from background and firefighting foam impacted ecosystems in Eastern Canada. Science of the Total Environment, 2022, 816, 151563. | 8.0 | 17 |

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|---|---|---|---|
| 55 | Degradation of Phenol in Water Using a Novel Gas-Liquid Two-Phase Dielectric Barrier Discharge Plasma Reactor. Water, Air, and Soil Pollution, 2018, 229, 1. | 2.4 | 15 |
| 56 | Column chromatography approach to determine mobility of fluorotelomer sulfonates and polyfluoroalkyl betaines. Science of the Total Environment, 2019, 683, 480-488. | 8.0 | 14 |
| 57 | Assessing the risk from trace organic contaminants released via greywater irrigation to the aquatic environment. Water Research, 2021, 205, 117664. | 11.3 | 13 |
| 58 | Comment on â€œBiodegradation of perfluorooctanesulfonate (PFOS) as an emerging contaminantâ€• Chemosphere, 2015, 138, 1037-1038. | 8.2 | 12 |
| 59 | A portable analytical system for rapid on-site determination of total nitrogen in water. Water Research, 2021, 202, 117410. | 11.3 | 12 |
| 60 | Modified clays reduce leaching of perâ€•and polyfluoroalkyl substances from <scp>AFFF</scp>â€•contaminated soils. AWWA Water Science, 2021, 3, e1241. | 2.1 | 6 |
| 61 | Reduced bioaccumulation of fluorotelomer sulfonates and perfluoroalkyl acids in earthworms (Eisenia fetida) from soils amended with modified clays. Journal of Hazardous Materials, 2022, 423, 126999. | 12.4 | 6 |
| 62 | <scp>PFAS</scp> are forever? The state of the science and research needs for analyzing and treating <scp>PFAS</scp>â€‐laden water. AWWA Water Science, 2022, 4, . | 2.1 | 3 |
| 63 | Fish Exhibit Distinct Fluorochemical and Î´15N Isotopic Signatures in the St. Lawrence River Impacted by Municipal Wastewater Effluents. Frontiers in Environmental Science, 2022, 10, . | 3.3 | 2 |