

# Zhanyun Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

8,091  
citations

136950

32  
h-index

138484

58  
g-index

65  
all docs

65  
docs citations

65  
times ranked

4970  
citing authors

#	ARTICLE	IF	CITATIONS
1	Information Requirements under the Essential-Use Concept: PFAS Case Studies. <i>Environmental Science &amp; Technology</i> , 2022, 56, 6232-6242.	10.0	32
2	Outside the Safe Operating Space of the Planetary Boundary for Novel Entities. <i>Environmental Science &amp; Technology</i> , 2022, 56, 1510-1521.	10.0	477
3	Per- and polyfluoroalkyl substances in the environment. <i>Science</i> , 2022, 375, eabg9065.	12.6	396
4	Enhancing Scientific Support for the Stockholm Convention's Implementation: An Analysis of Policy Needs for Scientific Evidence. <i>Environmental Science &amp; Technology</i> , 2022, 56, 2936-2949.	10.0	25
5	Time to Break the "Lock-In" Impediments to Chemicals Management. <i>Environmental Science &amp; Technology</i> , 2022, 56, 3863-3870.	10.0	12
6	The Next Frontier of Environmental Unknowns: Substances of Unknown or Variable Composition, Complex Reaction Products, or Biological Materials (UVCBs). <i>Environmental Science &amp; Technology</i> , 2022, 56, 7448-7466.	10.0	29
7	Response to Comment on "Outside the Safe Operating Space of the Planetary Boundary for Novel Entities". <i>Environmental Science &amp; Technology</i> , 2022, 56, 6788-6789.	10.0	3
8	Taking Earth's Pulse with Low-Cost Sensors. <i>ACS Sensors</i> , 2022, 7, 1613-1613.	7.8	0
9	Broaden chemicals scope in biodiversity targets. <i>Science</i> , 2022, 376, 1280-1280.	12.6	10
10	To be or not to be degraded: in defense of persistence assessment of chemicals. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 1104-1109.	3.5	6
11	Combined Application of the Essential-Use and Functional Substitution Concepts: Accelerating Safer Alternatives. <i>Environmental Science &amp; Technology</i> , 2022, 56, 9842-9846.	10.0	6
12	Introducing "Embedded Toxicity": A Necessary Metric for the Sound Management of Building Materials. <i>Environmental Science &amp; Technology</i> , 2022, 56, 9838-9841.	10.0	0
13	We need a global science-policy body on chemicals and waste. <i>Science</i> , 2021, 371, 774-776.	12.6	59
14	Response to "Comment on Scientific Basis for Managing PFAS as a Chemical Class". <i>Environmental Science and Technology Letters</i> , 2021, 8, 195-197.	8.7	6
15	First Steps Toward Sustainable Circular Uses of Chemicals: Advancing the Assessment and Management Paradigm. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6939-6951.	6.7	30
16	Fluorinated Compounds in North American Cosmetics. <i>Environmental Science and Technology Letters</i> , 2021, 8, 538-544.	8.7	120
17	Deep Dive into Plastic Monomers, Additives, and Processing Aids. <i>Environmental Science &amp; Technology</i> , 2021, 55, 9339-9351.	10.0	223
18	Africa: renewables infrastructure avoids stranded assets. <i>Nature</i> , 2021, 595, 353-353.	27.8	0

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19	Development and application of diffusive gradients in thin-films for in situ sampling of the bitterest chemical “denatonium benzoate in waters. <i>Journal of Hazardous Materials</i> , 2021, 418, 126393.	12.4	6
20	A critical review on the distribution and ecological risk assessment of steroid hormones in the environment in China. <i>Science of the Total Environment</i> , 2021, 786, 147452.	8.0	47
21	Addressing Urgent Questions for PFAS in the 21st Century. <i>Environmental Science &amp; Technology</i> , 2021, 55, 12755-12765.	10.0	17
22	Finding essentiality feasible: common questions and misinterpretations concerning the “essential-use” concept. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 1079-1087.	3.5	16
23	Time to Reveal Chemical Identities of Polymers and UVCBs. <i>Environmental Science &amp; Technology</i> , 2021, 55, 14473-14476.	10.0	11
24	In situ measurement of an emerging persistent, mobile and toxic (PMT) substance - Melamine and related triazines in waters by diffusive gradient in thin-films. <i>Water Research</i> , 2021, 206, 117752.	11.3	17
25	A New OECD Definition for Per- and Polyfluoroalkyl Substances. <i>Environmental Science &amp; Technology</i> , 2021, 55, 15575-15578.	10.0	134
26	Are Fluoropolymers Really of Low Concern for Human and Environmental Health and Separate from Other PFAS?. <i>Environmental Science &amp; Technology</i> , 2020, 54, 12820-12828.	10.0	149
27	The high persistence of PFAS is sufficient for their management as a chemical class. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 2307-2312.	3.5	125
28	An overview of the uses of per- and polyfluoroalkyl substances (PFAS). <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 2345-2373.	3.5	632
29	Strategies for grouping per- and polyfluoroalkyl substances (PFAS) to protect human and environmental health. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 1444-1460.	3.5	126
30	Environmental levels and human body burdens of per- and poly-fluoroalkyl substances in Africa: A critical review. <i>Science of the Total Environment</i> , 2020, 739, 139913.	8.0	33
31	Scientific Basis for Managing PFAS as a Chemical Class. <i>Environmental Science and Technology Letters</i> , 2020, 7, 532-543.	8.7	278
32	Toward a Global Understanding of Chemical Pollution: A First Comprehensive Analysis of National and Regional Chemical Inventories. <i>Environmental Science &amp; Technology</i> , 2020, 54, 2575-2584.	10.0	456
33	The hitchhiker's guide to core samples: Key issues and lessons learned. <i>Science of the Total Environment</i> , 2019, 685, 867-885.	8.0	6
34	Why is high persistence alone a major cause of concern?. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 781-792.	3.5	106
35	The concept of essential use for determining when uses of PFASs can be phased out. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 1803-1815.	3.5	125
36	Exploring open cheminformatics approaches for categorizing per- and polyfluoroalkyl substances (PFASs). <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 1835-1851.	3.5	25

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37	Toward a Comprehensive Global Emission Inventory of C <sub>4</sub> -C <sub>10</sub> Perfluoroalkanesulfonic Acids (PFASs) and Related Precursors: Focus on the Life Cycle of C <sub>6</sub> - and C <sub>10</sub> -Based Products. Environmental Science and Technology Letters, 2019, 6, 1-7.	8.7	32
38	Correction to "A Never-Ending Story of Per- and Polyfluoroalkyl Substances (PFASs)". Environmental Science & Technology, 2018, 52, 3325-3325.	10.0	20
39	Zürich Statement on Future Actions on Per- and Polyfluoroalkyl Substances (PFASs). Environmental Health Perspectives, 2018, 126, 84502.	6.0	91
40	Developing SAICM into a framework for the international governance of chemicals throughout their lifecycle: Looking beyond 2020. Integrated Environmental Assessment and Management, 2018, 14, 432-433.	2.9	8
41	A Never-Ending Story of Per- and Polyfluoroalkyl Substances (PFASs)?. Environmental Science & Technology, 2017, 51, 2508-2518.	10.0	971
42	Toward a Comprehensive Global Emission Inventory of C <sub>4</sub> -C <sub>10</sub> Perfluoroalkanesulfonic Acids (PFASs) and Related Precursors: Focus on the Life Cycle of C <sub>8</sub> -Based Products and Ongoing Industrial Transition. Environmental Science & Technology, 2017, 51, 4482-4493.	10.0	109
43	Global production, use, and emission volumes of short-chain chlorinated paraffins "A minimum scenario. Science of the Total Environment, 2016, 573, 1132-1146.	8.0	230
44	The precautionary principle and chemicals management: The example of perfluoroalkyl acids in groundwater. Environment International, 2016, 94, 331-340.	10.0	151
45	Comparative assessment of the environmental hazards of and exposure to perfluoroalkyl phosphonic and phosphinic acids (PFPA and PFPIAs): Current knowledge, gaps, challenges and research needs. Environment International, 2016, 89-90, 235-247.	10.0	62
46	Comment on "Fluorotechnology Is Critical to Modern Life: The FluoroCouncil Counterpoint to the Madrid Statement". Environmental Health Perspectives, 2015, 123, A170.	6.0	6
47	A modeling assessment of the physicochemical properties and environmental fate of emerging and novel per- and polyfluoroalkyl substances. Science of the Total Environment, 2015, 505, 981-991.	8.0	144
48	The Madrid Statement on Poly- and Perfluoroalkyl Substances (PFASs). Environmental Health Perspectives, 2015, 123, A107-11.	6.0	199
49	Hazard assessment of fluorinated alternatives to long-chain perfluoroalkyl acids (PFAAs) and their precursors: Status quo, ongoing challenges and possible solutions. Environment International, 2015, 75, 172-179.	10.0	420
50	Comment on "The environmental photolysis of perfluorooctanesulfonate, perfluorooctanoate, and related fluorochemicals". Chemosphere, 2015, 122, 301-303.	8.2	8
51	Emissions of Polychlorinated Biphenyls, Polychlorinated Dibenzo- <i>p</i> -dioxins, and Polychlorinated Dibenzofurans during 2010 and 2011 in Zurich, Switzerland. Environmental Science & Technology, 2014, 48, 482-490.	10.0	48
52	Helsingår Statement on poly- and perfluorinated alkyl substances (PFASs). Chemosphere, 2014, 114, 337-339.	8.2	175
53	Emissions of polybrominated diphenyl ethers (PBDEs) in Zurich, Switzerland, determined by a combination of measurements and modeling. Chemosphere, 2014, 116, 15-23.	8.2	25
54	Releases of chlorobenzenes, chlorophenols and dioxins during fireworks. Chemosphere, 2014, 114, 158-164.	8.2	11

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55	Global emission inventories for C4–C14 perfluoroalkyl carboxylic acid (PFCA) homologues from 1951 to 2030, Part I: production and emissions from quantifiable sources. <i>Environment International</i> , 2014, 70, 62-75.	10.0	521
56	Global emission inventories for C4–C14 perfluoroalkyl carboxylic acid (PFCA) homologues from 1951 to 2030, part II: The remaining pieces of the puzzle. <i>Environment International</i> , 2014, 69, 166-176.	10.0	185
57	Fluorinated alternatives to long-chain perfluoroalkyl carboxylic acids (PFCAs), perfluoroalkane sulfonic acids (PFSA) and their potential precursors. <i>Environment International</i> , 2013, 60, 242-248.	10.0	623
58	Atmospheric fate of poly- and perfluorinated alkyl substances (PFASs): II. Emission source strength in summer in Zurich, Switzerland. <i>Environmental Pollution</i> , 2012, 169, 204-209.	7.5	29
59	Atmospheric fate of poly- and perfluorinated alkyl substances (PFASs): I. Day–night patterns of air concentrations in summer in Zurich, Switzerland. <i>Environmental Pollution</i> , 2012, 169, 196-203.	7.5	62
60	Using COSMOtherm to predict physicochemical properties of poly- and perfluorinated alkyl substances (PFASs). <i>Environmental Chemistry</i> , 2011, 8, 389.	1.5	202
61	Impact of fluorotelomer alcohols (FTOH) on the molecular and macroscopic phenotype of <i>Tetrahymena thermophila</i> . <i>Environmental Science and Pollution Research</i> , 2010, 17, 154-164.	5.3	6