

# Xiahong Feng

## List of Publications by Year in descending order

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66  
papers

5,282  
citations

126907

33  
h-index

106344

65  
g-index

73  
all docs

73  
docs citations

73  
times ranked

5783  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fractal stream chemistry and its implications for contaminant transport in catchments. <i>Nature</i> , 2000, 403, 524-527.	27.8	810
2	The use of isotope tracers for identifying populations of migratory birds. <i>Oecologia</i> , 1997, 109, 132-141.	2.0	397
3	The fine structure of water-quality dynamics: the (high-frequency) wave of the future. <i>Hydrological Processes</i> , 2004, 18, 1353-1359.	2.6	332
4	Catchment-scale advection and dispersion as a mechanism for fractal scaling in stream tracer concentrations. <i>Journal of Hydrology</i> , 2001, 254, 82-101.	5.4	317
5	A stable isotope study of soil water: evidence for mixing and preferential flow paths. <i>Geoderma</i> , 2004, 119, 97-111.	5.1	295
6	Carbon isotopes of trees from arid environments and implications for reconstructing atmospheric CO <sub>2</sub> concentration. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 2599-2608.	3.9	248
7	Isotopic evolution of a seasonal snowpack and its melt. <i>Water Resources Research</i> , 2001, 37, 759-769.	4.2	193
8	The effect of soil hydrology on the oxygen and hydrogen isotopic compositions of plants' source water. <i>Earth and Planetary Science Letters</i> , 2001, 185, 355-367.	4.4	174
9	Trends in intrinsic water-use efficiency of natural trees for the past 100-200 years: a response to atmospheric CO <sub>2</sub> concentration. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 1891-1903.	3.9	162
10	Landfill-Stimulated Iron Reduction and Arsenic Release at the Coakley Superfund Site (NH). <i>Environmental Science &amp; Technology</i> , 2006, 40, 67-73.	10.0	132
11	Long-term $\delta^{13}C$ response of trees in western North America to atmospheric CO <sub>2</sub> concentration derived from carbon isotope chronologies. <i>Oecologia</i> , 1998, 117, 19-25.	2.0	131
12	Paleovegetation reconstruction using $\delta^{13}C$ of Soil Organic Matter. <i>Biogeosciences</i> , 2008, 5, 1325-1337.	3.3	127
13	Isotopic analyses of nitrogenous compounds from the Murchison meteorite: ammonia, amines, amino acids, and polar hydrocarbons. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 5579-5587.	3.9	125
14	Climatic Implications of an 8000-Year Hydrogen Isotope Time Series from Bristlecone Pine Trees. <i>Science</i> , 1994, 265, 1079-1081.	12.6	124
15	Isotopic discrimination during long-term decomposition in an arid land ecosystem. <i>Soil Biology and Biochemistry</i> , 2001, 33, 41-51.	8.8	113
16	Influence of sea ice on Arctic precipitation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 46-51.	7.1	108
17	How isotopic fractionation of snowmelt affects hydrograph separation. <i>Hydrological Processes</i> , 2002, 16, 3683-3690.	2.6	101
18	Seasonality of isotopes in precipitation: A global perspective. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	98

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19	Analyzing trophic transfer of metals in stream food webs using nitrogen isotopes. <i>Science of the Total Environment</i> , 2003, 317, 73-89.	8.0	78
20	Isotopic evolution of a seasonal snowcover and its melt by isotopic exchange between liquid water and ice. <i>Chemical Geology</i> , 2010, 270, 126-134.	3.3	74
21	Active layer hydrology in an arctic tundra ecosystem: quantifying water sources and cycling using water stable isotopes. <i>Hydrological Processes</i> , 2016, 30, 4972-4986.	2.6	68
22	A theoretical analysis of carbon isotope evolution of decomposing plant litters and soil organic matter. <i>Global Biogeochemical Cycles</i> , 2002, 16, 66-166-11.	4.9	61
23	Relative importance of CO <sub>2</sub> recycling and CH <sub>4</sub> pathways in lake food webs along a dissolved organic carbon gradient. <i>Limnology and Oceanography</i> , 2006, 51, 1602-1613.	3.1	55
24	Climatic temperature records in $\delta^{18}O$ data from tree rings. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 3029-3037.	3.9	52
25	Tree-Ring $\delta^{18}O$ as an Indicator of Asian Monsoon Intensity. <i>Quaternary Research</i> , 1999, 51, 262-266.	1.7	44
26	Distribution, accumulation, and fluxes of soil carbon in four monoculture lysimeters at San Dimas Experimental Forest, California. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 1319-1333.	3.9	42
27	Stable isotopic exchange rate constant between snow and liquid water. <i>Chemical Geology</i> , 2009, 260, 57-62.	3.3	38
28	Measuring catchment-scale chemical retardation using spectral analysis of reactive and passive chemical tracer time series. <i>Journal of Hydrology</i> , 2004, 292, 296-307.	5.4	36
29	Relative humidity recorded in tree rings: A study along a precipitation gradient in the Olympic Mountains, Washington, USA. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 791-799.	3.9	36
30	The $\delta^{13}C$ of tree rings in full-bark and strip-bark bristlecone pine trees in the White Mountains of California. <i>Global Change Biology</i> , 1999, 5, 33-40.	9.5	35
31	The variations in $\delta^{18}O$ of tree rings and the implications for climatic reconstruction. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 1663-1673.	3.9	35
32	Natural Isotopic Distribution in Soil Surface Horizons Differentiated by Vegetation. <i>Soil Science Society of America Journal</i> , 2003, 67, 1544-1550.	2.2	35
33	Determination of ratios of nonexchangeable hydrogen in cellulose: A method based on the cellulose-water exchange reaction. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 4249-4256.	3.9	34
34	Response of Plants' Water Use Efficiency to Increasing Atmospheric CO <sub>2</sub> Concentration. <i>Environmental Science &amp; Technology</i> , 2012, 46, 8610-8620.	10.0	34
35	The use of stream flow routing for direct channel precipitation with isotopically-based hydrograph separations: the role of new water in stormflow generation. <i>Journal of Hydrology</i> , 2003, 273, 205-216.	5.4	33
36	Seasonal Deuterium Excess Variations of Precipitation at Summit, Greenland, and their Climatological Significance. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 72-91.	3.3	33

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37	A study of solute transport mechanisms using rare earth element tracers and artificial rainstorms on snow. <i>Water Resources Research</i> , 2001, 37, 1425-1435.	4.2	32
38	Annual variation in event-scale precipitation &lt;math>\delta^{18}\text{O}</math> at Barrow, AK, reflects vapor source region. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 4627-4639.	4.9	31
39	Impact of Land Disturbance on the Fate of Arsenical Pesticides. <i>Journal of Environmental Quality</i> , 2006, 35, 61-67.	2.0	29
40	Low $\delta^{13}\text{C}$ values in microbialgenic methane result from co. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 285, 225-236.	3.9	29
41	Oxygen isotope studies of zeolites: Stilbite, analcime, heulandite, and clinoptilolite. II. Kinetics and mechanisms of isotopic exchange between zeolites and water vapor. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 4219-4238.	3.9	28
42	A study of solute redistribution and transport in seasonal snowpack using natural and artificial tracers. <i>Journal of Hydrology</i> , 2008, 357, 243-254.	5.4	27
43	The diel cycle of water vapor in west Greenland. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 9386-9399.	3.3	27
44	Deglacial Hydroclimate of Midcontinental North America. <i>Quaternary Research</i> , 2015, 83, 336-344.	1.7	26
45	Patterns of Evaporation and Precipitation Drive Global Isotopic Changes in Atmospheric Moisture. <i>Geophysical Research Letters</i> , 2018, 45, 7093-7101.	4.0	25
46	The Changes in North American atmospheric circulation patterns indicated by wood cellulose. <i>Geology</i> , 2007, 35, 163.	4.4	24
47	Climatic trends from isotopic records of tree rings: The past 100?200 years. <i>Climatic Change</i> , 1996, 33, 551-562.	3.6	18
48	Evaporation and transport of water isotopologues from Greenland lakes: The lake size effect. <i>Quaternary Science Reviews</i> , 2016, 131, 302-315.	3.0	18
49	Variations of monsoonal rain and vegetation during the past millennium in Tiangui Mountain, North China reflected by stalagmite $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ records from Zhenzhu Cave. <i>Quaternary International</i> , 2017, 447, 89-101.	1.5	18
50	Contribution of Municipal Waste Incineration to Trace Metal Deposition on the Vicinity. <i>Water, Air, and Soil Pollution</i> , 2000, 119, 295-316.	2.4	17
51	Isotopic studies of leaf water. Part 1: A physically based two-dimensional model for pine needles. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5175-5188.	3.9	17
52	The Road River Group of northern Yukon, Canada: early Paleozoic deep-water sedimentation within the Great American Carbonate Bank. <i>Canadian Journal of Earth Sciences</i> , 2020, 57, 1193-1219.	1.3	17
53	Oxygen isotope studies of zeolites: Stilbite, analcime, heulandite, and clinoptilolite: III. Oxygen isotope fractionation between stilbite and water or water vapor. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 4239-4247.	3.9	15
54	Oxygen isotope studies of illite/smectite and clinoptilolite from Yucca Mountain: implications for paleohydrologic conditions. <i>Earth and Planetary Science Letters</i> , 1999, 171, 95-106.	4.4	11

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55	New evidence from stable isotope for the uplift of mountains in northern edge of the Qinghai-Tibetan Plateau. <i>Science in China Series B: Chemistry</i> , 2002, 45, 1-10.	0.8	11
56	Use of principal component analysis to extract environmental information from lake water isotopic compositions. <i>Limnology and Oceanography</i> , 2018, 63, 1340-1354.	3.1	10
57	Radium in hydraulic fracturing wastewater: distribution in suspended solids and implications to its treatment by sulfate co-precipitation. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 339-351.	3.5	8
58	Isotopic studies of leaf water. Part 2: Between-age isotopic variations in pine needles. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5189-5200.	3.9	6
59	Influence of sample preparation on estuarine macrofauna stable isotope signatures in the context of contaminant bioaccumulation studies. <i>Journal of Experimental Marine Biology and Ecology</i> , 2017, 493, 1-6.	1.5	5
60	Rethinking Craig and Gordon's approach to modeling isotopic compositions of marine boundary layer vapor. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 4005-4024.	4.9	5
61	Kinetics and mechanism of oxygen isotope exchange between analcime and water vapor and assessment of isotopic preservation of analcime in geological formations. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 3181-3188.	3.9	4
62	Reply to the Letter to the Editor by Zhou on "Tree-Ring $\delta D$ as an Indicator of Asian Monsoon Intensity". <i>Quaternary Research</i> , 2002, 58, 212-213.	1.7	4
63	Testing a Novel Method for Initializing Air Parcel Back Trajectories in Precipitating Clouds Using Reanalysis Data. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017, 34, 2393-2405.	1.3	4
64	Aerosol Populations, Processes, and Ages in Bulk Deposition: Insights From a 9-Year Study of $^{7}\text{Be}$ , $^{210}\text{Pb}$ , Sulfate, and Major/Trace Elements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035612.	3.3	3
65	Response to Comment on "Landfill-Stimulated Iron Reduction and Arsenic Release at the Coakley Superfund Site (NH)". <i>Environmental Science &amp; Technology</i> , 2006, 40, 4039-4039.	10.0	1
66	Timing and duration of hydrological transitions in Arctic polygonal ground from stable isotopes. <i>Hydrological Processes</i> , 2020, 34, 749-764.	2.6	1