

Xiahong Feng

List of Publications by Year in descending order

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66
papers

5,282
citations

126708

33
h-index

106150

65
g-index

73
all docs

73
docs citations

73
times ranked

5783
citing authors

#	ARTICLE	IF	CITATIONS
1	Aerosol Populations, Processes, and Ages in Bulk Deposition: Insights From a 9â€­Year Study of ⁷ Be, ²¹⁰ Pb, Sulfate, and Major/Trace Elements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035612.	1.2	3
2	Timing and duration of hydrological transitions in Arctic polygonal ground from stable isotopes. <i>Hydrological Processes</i> , 2020, 34, 749-764. http://www.w3.org/1998/Math/MathML	1.1	1
3	CH_2D values in microbialgenic methane result from co. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 285, 225-236.	1.6	29
4	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.	0.6	17
5	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.	1.7	8
6	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.	1.9	5
7	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.	1.2	33
8	Use of principal component analysis to extract environmental information from lake water isotopic compositions. <i>Limnology and Oceanography</i> , 2018, 63, 1340-1354.	1.6	10
9	Patterns of Evaporation and Precipitation Drive Global Isotopic Changes in Atmospheric Moisture. <i>Geophysical Research Letters</i> , 2018, 45, 7093-7101.	1.5	25
10	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.	0.7	5
11	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.	0.5	4
12	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.	0.7	18
13	Annual variation in event-scale precipitation $\delta^2\text{H}$ at Barrow, AK, reflects vapor source region. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 4627-4639.	1.9	31
14	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.	1.1	68
15	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.	3.3	108
16	Evaporation and transport of water isotopologues from Greenland lakes: The lake size effect. <i>Quaternary Science Reviews</i> , 2016, 131, 302-315.	1.4	18
17	Deglacial Hydroclimate of Midcontinental North America. <i>Quaternary Research</i> , 2015, 83, 336-344.	1.0	26
18	The diel cycle of water vapor in west Greenland. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 9386-9399.	1.2	27

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19	Response of Plants's Water Use Efficiency to Increasing Atmospheric CO ₂ Concentration. <i>Environmental Science & Technology</i> , 2012, 46, 8610-8620.	4.6	34
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.	1.4	74
21	Stable isotopic exchange rate constant between snow and liquid water. <i>Chemical Geology</i> , 2009, 260, 57-62.	1.4	38
22	Seasonality of isotopes in precipitation: A global perspective. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	98
23	A study of solute redistribution and transport in seasonal snowpack using natural and artificial tracers. <i>Journal of Hydrology</i> , 2008, 357, 243-254.	2.3	27
24	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.	1.6	17
25	Isotopic studies of leaf water. Part 2: Between-age isotopic variations in pine needles. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5189-5200.	1.6	6
26	Paleovegetation reconstruction using $\delta^{13}C$ of Soil Organic Matter. <i>Biogeosciences</i> , 2008, 5, 1325-1337.	1.3	127
27	The Changes in North American atmospheric circulation patterns indicated by wood cellulose. <i>Geology</i> , 2007, 35, 163.	2.0	24
28	Response to Comment on "Landfill-Stimulated Iron Reduction and Arsenic Release at the Coakley Superfund Site (NH)". <i>Environmental Science & Technology</i> , 2006, 40, 4039-4039.	4.6	1
29	Landfill-Stimulated Iron Reduction and Arsenic Release at the Coakley Superfund Site (NH). <i>Environmental Science & Technology</i> , 2006, 40, 67-73.	4.6	132
30	Impact of Land Disturbance on the Fate of Arsenical Pesticides. <i>Journal of Environmental Quality</i> , 2006, 35, 61-67.	1.0	29
31	Relative importance of CO ₂ recycling and CH ₄ pathways in lake food webs along a dissolved organic carbon gradient. <i>Limnology and Oceanography</i> , 2006, 51, 1602-1613.	1.6	55
32	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.	1.6	36
33	The fine structure of water-quality dynamics: the (high-frequency) wave of the future. <i>Hydrological Processes</i> , 2004, 18, 1353-1359.	1.1	332
34	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.	2.3	36
35	A stable isotope study of soil water: evidence for mixing and preferential flow paths. <i>Geoderma</i> , 2004, 119, 97-111.	2.3	295
36	Analyzing trophic transfer of metals in stream food webs using nitrogen isotopes. <i>Science of the Total Environment</i> , 2003, 317, 73-89.	3.9	78

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37	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.	2.3	33
38	Natural Isotopic Distribution in Soil Surface Horizons Differentiated by Vegetation. <i>Soil Science Society of America Journal</i> , 2003, 67, 1544-1550.	1.2	35
39	A theoretical analysis of carbon isotope evolution of decomposing plant litters and soil organic matter. <i>Global Biogeochemical Cycles</i> , 2002, 16, 66-1-66-11.	1.9	61
40	How isotopic fractionation of snowmelt affects hydrograph separation. <i>Hydrological Processes</i> , 2002, 16, 3683-3690.	1.1	101
41	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
42	Reply to the Letter to the Editor by Zhou on "Tree-Ring $\delta^{13}C$ as an Indicator of Asian Monsoon Intensity". <i>Quaternary Research</i> , 2002, 58, 212-213.	1.0	4
43	Isotopic evolution of a seasonal snowpack and its melt. <i>Water Resources Research</i> , 2001, 37, 759-769.	1.7	193
44	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.	1.7	32
45	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.	1.8	174
46	Catchment-scale advection and dispersion as a mechanism for fractal scaling in stream tracer concentrations. <i>Journal of Hydrology</i> , 2001, 254, 82-101.	2.3	317
47	Isotopic discrimination during long-term decomposition in an arid land ecosystem. <i>Soil Biology and Biochemistry</i> , 2001, 33, 41-51.	4.2	113
48	Fractal stream chemistry and its implications for contaminant transport in catchments. <i>Nature</i> , 2000, 403, 524-527.	13.7	810
49	Contribution of Municipal Waste Incineration to Trace Metal Deposition on the Vicinity. <i>Water, Air, and Soil Pollution</i> , 2000, 119, 295-316.	1.1	17
50	The variations in $\delta^{13}C$ of tree rings and the implications for climatic reconstruction. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 1663-1673.	1.6	35
51	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.	1.6	4
52	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.	4.2	35
53	Tree-Ring $\delta^{13}C$ as an Indicator of Asian Monsoon Intensity. <i>Quaternary Research</i> , 1999, 51, 262-266.	1.0	44
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.	1.8	11

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55	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.	1.6	42
56	Trends in intrinsic water-use efficiency of natural trees for the past 100–200 years: a response to atmospheric CO ₂ concentration. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 1891-1903.	1.6	162
57	Long-term $\delta^{13}C$ response of trees in western North America to atmospheric CO ₂ concentration derived from carbon isotope chronologies. <i>Oecologia</i> , 1998, 117, 19-25.	0.9	131
58	The use of isotope tracers for identifying populations of migratory birds. <i>Oecologia</i> , 1997, 109, 132-141.	0.9	397
59	Climatic trends from isotopic records of tree rings: The past 100–200 years. <i>Climatic Change</i> , 1996, 33, 551-562.	1.7	18
60	Carbon isotopes of trees from arid environments and implications for reconstructing atmospheric CO ₂ concentration. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 2599-2608.	1.6	248
61	Climatic temperature records in $\delta^{18}O$ data from tree rings. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 3029-3037.	1.6	52
62	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.	1.6	125
63	Climatic Implications of an 8000-Year Hydrogen Isotope Time Series from Bristlecone Pine Trees. <i>Science</i> , 1994, 265, 1079-1081.	6.0	124
64	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.	1.6	28
65	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.	1.6	15
66	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.	1.6	34