

Koji Fujita

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

134
papers

6,465
citations

42
h-index

78
g-index

167
ext. papers

7,612
ext. citations

5.3
avg. IF

5.8
L-index

#	Paper	IF	Citations
134	Soluble salts in deserts as a source of sulfate aerosols in an Antarctic ice core during the last glacial period. <i>Earth and Planetary Science Letters</i> , 2022 , 578, 117299	5.3	
133	Ice Core Drilling and the Related Observations at SE-Dome site, southeastern Greenland Ice Sheet. <i>Bulletin of Glaciological Research</i> , 2021 , 39, 1-12	0.4	
132	Projected land ice contributions to twenty-first-century sea level rise. <i>Nature</i> , 2021 , 593, 74-82	50.4	45
131	Isotopic evidence for acidity-driven enhancement of sulfate formation after SO emission control. <i>Science Advances</i> , 2021 , 7,	14.3	6
130	Ice Cliff Dynamics of Debris-Covered Trakarding Glacier in the Rolwaling Region, Nepal Himalaya. <i>Frontiers in Earth Science</i> , 2021 , 9,	3.5	1
129	Variations in mineralogy of dust in an ice core obtained from northwestern Greenland over the past 100 years. <i>Climate of the Past</i> , 2021 , 17, 1341-1362	3.9	3
128	Twice-Daily Monsoon Precipitation Maxima in the Himalayas Driven by Land Surface Effects. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD034255	4.4	4
127	Anthropogenic Impacts on Tropospheric Reactive Chlorine Since the Preindustrial. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL093808	4.9	2
126	Increasing dust emission from ice free terrain in southeastern Greenland since 2000. <i>Polar Science</i> , 2021 , 27, 100599	2.3	3
125	Studies on Atmosphere, Snow/Ice, and Glacial Microbes on Greenland Ice Sheet by SIGMA and relevant projects. <i>Journal of the Japanese Society of Snow and Ice</i> , 2021 , 83, 169-191	0.1	
124	Review of the current polar ice sheet surface mass balance and its modelling: the 2020 summer edition. <i>Journal of the Japanese Society of Snow and Ice</i> , 2021 , 83, 27-50	0.1	
123	Physically Based Summer Temperature Reconstruction From Melt Layers in Ice Cores. <i>Earth and Space Science</i> , 2021 , 8, e2020EA001590	3.1	0
122	The influence of water percolation through crevasses on the thermal regime of a Himalayan mountain glacier. <i>Cryosphere</i> , 2020 , 14, 1273-1288	5.5	11
121	Partitioning the Uncertainty of Ensemble Projections of Global Glacier Mass Change. <i>Earth's Future</i> , 2020 , 8, e2019EF001470	7.9	38
120	GrSMBMIP: intercomparison of the modelled 1980-2012 surface mass balance over the Greenland Ice Sheet. <i>Cryosphere</i> , 2020 , 14, 3935-3958	5.5	43
119	Annual layer counting using pollen grains of the Grigoriev ice core from the Tien Shan Mountains, central Asia. <i>Arctic, Antarctic, and Alpine Research</i> , 2019 , 51, 299-312	1.8	7
118	Influence of Summer Sublimation on D ₂ O, ¹⁸ O, and ¹⁷ O in Precipitation, East Antarctica, and Implications for Climate Reconstruction From Ice Cores. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 7339	4.4	10

117	Viscoelastic Modeling of Nocturnal Thermal Fracturing in a Himalayan Debris-Covered Glacier. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019 , 124, 1485-1515	3.8	5
116	Simulations of black carbon (BC) aerosol impact over Hindu Kush Himalayan sites: validation, sources, and implications on glacier runoff. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 2441-2460	6.8	16
115	Reduced marine phytoplankton sulphur emissions in the Southern Ocean during the past seven glacial. <i>Nature Communications</i> , 2019 , 10, 3247	17.4	12
114	Mass balance of Trambau Glacier, Rolwaling region, Nepal Himalaya: in-situ observations, long-term reconstruction and mass-balance sensitivity. <i>Journal of Glaciology</i> , 2019 , 65, 605-616	3.4	12
113	DEVELOPMENT AND VALIDATION OF A LARGE-SCALE GLACIER MODEL BASED ON AN ENERGY BALANCE APPROACH OVER CENTRAL EUROPE. <i>Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering)</i> , 2019 , 75, 1_919-1_924	0.1	
112	Contrasting thinning patterns between lake- and land-terminating glaciers in the Bhutanese Himalaya. <i>Cryosphere</i> , 2019 , 13, 2733-2750	5.5	20
111	Assessment for paleoclimatic utility of biomass burning tracers in SE-Dome ice core, Greenland. <i>Atmospheric Environment</i> , 2019 , 196, 86-94	5.3	4
110	Asynchrony between Antarctic temperature and CO associated with obliquity over the past 720,000 years. <i>Nature Communications</i> , 2018 , 9, 961	17.4	34
109	A 60Year Record of Atmospheric Aerosol Depositions Preserved in a High-Accumulation Dome Ice Core, Southeast Greenland. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 574-589	4.4	14
108	Review of the status and mass changes of Himalayan-Karakoram glaciers. <i>Journal of Glaciology</i> , 2018 , 64, 61-74	3.4	143
107	Demographic analysis of cyanobacteria based on the mutation rates estimated from an ancient ice core. <i>Heredity</i> , 2018 , 120, 562-573	3.6	10
106	Use of Water Balance and Tracer-Based Approaches to Monitor Groundwater Recharge in the Hyper-Arid Gobi Desert of Northwestern China. <i>Environments - MDPI</i> , 2018 , 5, 55	3.2	5
105	Nocturnal Thermal Fracturing of a Himalayan Debris-Covered Glacier Revealed by Ambient Seismic Noise. <i>Geophysical Research Letters</i> , 2018 , 45, 9699-9709	4.9	19
104	NHMBMAP: spatially and temporally high-resolution nonhydrostatic atmospheric model coupled with detailed snow process model for Greenland Ice Sheet. <i>Cryosphere</i> , 2018 , 12, 635-655	5.5	27
103	State dependence of climatic instability over the past 720,000 years from Antarctic ice cores and climate modeling. <i>Science Advances</i> , 2017 , 3, e1600446	14.3	56
102	Debris-covered glacier anomaly? Morphological factors controlling changes in the mass balance, surface area, terminus position, and snow line altitude of Himalayan glaciers. <i>Earth and Planetary Science Letters</i> , 2017 , 471, 19-31	5.3	58
101	Seasonal-Scale Dating of a Shallow Ice Core From Greenland Using Oxygen Isotope Matching Between Data and Simulation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 10,873-10,887	4.4	16
100	A Firn Densification Process in the High Accumulation Dome of Southeastern Greenland. <i>Arctic, Antarctic, and Alpine Research</i> , 2017 , 49, 13-27	1.8	11

99	Anomalous winter-snow-amplified earthquake-induced disaster of the 2015 Langtang avalanche in Nepal. <i>Natural Hazards and Earth System Sciences</i> , 2017 , 17, 749-764	3.9	18
98	Evaluating the Scale and Potential of GLOF in the Bhutan Himalayas Using a Satellite-Based Integral Glacier Glacial Lake Inventory. <i>Geosciences (Switzerland)</i> , 2017 , 7, 77	2.7	24
97	Topographic controls on the debris-cover extent of glaciers in the Eastern Himalayas: Regional analysis using a novel high-resolution glacier inventory. <i>Quaternary International</i> , 2017 , 455, 82-92	2	14
96	Contrasting glacier responses to recent climate change in high-mountain Asia. <i>Scientific Reports</i> , 2017 , 7, 13717	4.9	94
95	Downwasting of the debris-covered area of Lirung Glacier in Langtang Valley, Nepal Himalaya, from 1974 to 2010. <i>Quaternary International</i> , 2017 , 455, 93-101	2	15
94	Surface lowering of the debris-covered area of Kanchenjunga Glacier in the eastern Nepal Himalaya since 1975, as revealed by Hexagon KH-9 and ALOS satellite observations. <i>Cryosphere</i> , 2017 , 11, 2815-2827	5.5	9
93	Precipitation regime and stable isotopes at Dome Fuji, East Antarctica 2016 ,		2
92	Precipitation regime and stable isotopes at Dome Fuji, East Antarctica. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 6883-6900	6.8	17
91	Inconsistent relationships between major ions and water stable isotopes in Antarctic snow under different accumulation environments. <i>Polar Science</i> , 2016 , 10, 1-10	2.3	14
90	Geomorphic and geologic controls of geohazards induced by Nepal's 2015 Gorkha earthquake. <i>Science</i> , 2016 , 351, aac8353	33.3	226
89	Anomalous winter snow amplified earthquake induced disaster of the 2015 Langtang avalanche in Nepal 2016 ,		2
88	Comparison of multiple glacier inventories with a new inventory derived from high-resolution ALOS imagery in the Bhutan Himalaya. <i>Cryosphere</i> , 2016 , 10, 65-85	5.5	23
87	Glacier area shrinkage in eastern Nepal Himalaya since 1992 using high-resolution inventories from aerial photographs and ALOS satellite images. <i>Journal of Glaciology</i> , 2016 , 62, 512-524	3.4	9
86	Abrupt and moderate climate changes in the mid-latitudes of Asia during the Holocene. <i>Journal of Glaciology</i> , 2016 , 62, 411-439	3.4	30
85	First in situ record of decadal glacier mass balance (2003-2014) from the Bhutan Himalaya. <i>Annals of Glaciology</i> , 2016 , 57, 289-294	2.5	23
84	Heterogeneity in supraglacial debris thickness and its role in glacier mass changes of the Mount Gongga. <i>Science China Earth Sciences</i> , 2016 , 59, 170-184	4.6	19
83	Historically unprecedented global glacier decline in the early 21st century. <i>Journal of Glaciology</i> , 2015 , 61, 745-762	3.4	431
82	The GAMDAM glacier inventory: a quality-controlled inventory of Asian glaciers. <i>Cryosphere</i> , 2015 , 9, 849-864	5.5	109

81	Climate regime of Asian glaciers revealed by GAMDAM glacier inventory. <i>Cryosphere</i> , 2015 , 9, 865-880	5.5	63
80	Glaciological and meteorological observations at the SIGMA-D site, northwestern Greenland Ice Sheet. <i>Bulletin of Glaciological Research</i> , 2015 , 33, 7-14	0.4	8
79	Snow particle speeds in drifting snow. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 9901-9913	4.4	28
78	Modelling runoff from a Himalayan debris-covered glacier. <i>Hydrology and Earth System Sciences</i> , 2014 , 18, 2679-2694	5.5	70
77	Effect of accumulation rate on water stable isotopes of near-surface snow in inland Antarctica. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 274-283	4.4	34
76	The disappearance of glaciers in the Tien Shan Mountains in Central Asia at the end of Pleistocene. <i>Quaternary Science Reviews</i> , 2014 , 103, 26-33	3.9	29
75	Changes in ice thickness and flow velocity of Yala Glacier, Langtang Himal, Nepal, from 1982 to 2009. <i>Annals of Glaciology</i> , 2013 , 54, 157-162	2.5	23
74	Energy and mass balance of Zhadang glacier surface, central Tibetan Plateau. <i>Journal of Glaciology</i> , 2013 , 59, 137-148	3.4	86
73	Southwest-facing slopes control the formation of debris-covered glaciers in the Bhutan Himalaya. <i>Cryosphere</i> , 2013 , 7, 1303-1314	5.5	57
72	DNA analysis for section identification of individual Pinus pollen grains from Belukha glacier, Altai Mountains, Russia. <i>Environmental Research Letters</i> , 2013 , 8, 014032	6.2	10
71	Modeling Glacier Behavior Under Different Precipitation Seasonalities. <i>Arctic, Antarctic, and Alpine Research</i> , 2013 , 45, 143-152	1.8	5
70	May-September precipitation in the Bhutan Himalaya since 1743 as reconstructed from tree ring cellulose $\delta^{18}O$. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 8399-8410	4.4	72
69	Potential flood volume of Himalayan glacial lakes. <i>Natural Hazards and Earth System Sciences</i> , 2013 , 13, 1827-1839	3.9	97
68	Variations in discharge from the Qilian mountains, northwest China, and its effect on the agricultural communities of the Heihe basin, over the last two millennia. <i>Water History</i> , 2012 , 4, 177-196 ^{0.5}	0.5	12
67	The rates of sea salt sulfatization in the atmosphere and surface snow of inland Antarctica. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		20
66	The state and fate of Himalayan glaciers. <i>Science</i> , 2012 , 336, 310-4	33.3	1282
65	Elevation changes of glaciers revealed by multitemporal digital elevation models calibrated by GPS survey in the Khumbu region, Nepal Himalaya, 1992-2008. <i>Journal of Glaciology</i> , 2012 , 58, 648-656	3.4	136
64	Reevaluation of the reconstruction of summer temperatures from melt features in Belukha ice cores, Siberian Altai. <i>Journal of Geophysical Research</i> , 2011 , 116,		12

63	Evidence for propagation of cold-adapted yeast in an ice core from a Siberian Altai glacier. <i>Journal of Geophysical Research</i> , 2011 , 116,		13
62	Glacial lake inventory of Bhutan using ALOS data: methods and preliminary results. <i>Annals of Glaciology</i> , 2011 , 52, 65-71	2.5	37
61	Temporal Changes in Elevation of the Debris-Covered Ablation Area of Khumbu Glacier in the Nepal Himalaya since 1978. <i>Arctic, Antarctic, and Alpine Research</i> , 2011 , 43, 246-255	1.8	46
60	Distribution of debris thickness and its effect on ice melt at Hailuogou glacier, southeastern Tibetan Plateau, using in situ surveys and ASTER imagery. <i>Journal of Glaciology</i> , 2011 , 57, 1147-1157	3.4	103
59	Establishing the Timing of Chemical Deposition Events on Belukha Glacier, Altai Mountains, Russia, Using Pollen Analysis. <i>Arctic, Antarctic, and Alpine Research</i> , 2011 , 43, 66-72	1.8	12
58	Development of glacial lake inventory in Bhutan using Daichi(ALOS) 2011 ,		1
57	Spatially heterogeneous wastage of Himalayan glaciers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 14011-4	11.5	186
56	Favorable climatic regime for maintaining the present-day geometry of the Gregoriev Glacier, Inner Tien Shan. <i>Cryosphere</i> , 2011 , 5, 539-549	5.5	34
55	Spatial and temporal variability of snow accumulation rate on the East Antarctic ice divide between Dome Fuji and EPICA DML. <i>Cryosphere</i> , 2011 , 5, 1057-1081	5.5	60
54	Multi-decadal ice-velocity and elevation changes of a monsoonal maritime glacier: Hailuogou glacier, China. <i>Journal of Glaciology</i> , 2010 , 56, 65-74	3.4	48
53	Characteristics of high-precipitation events in Dronning Maud Land, Antarctica. <i>Journal of Geophysical Research</i> , 2010 , 115,		55
52	Self-regulated fluctuations in the ablation of a snow patch over four decades. <i>Water Resources Research</i> , 2010 , 46,	5.4	27
51	Formation conditions of supraglacial lakes on debris-covered glaciers in the Himalaya. <i>Journal of Glaciology</i> , 2010 , 56, 177-181	3.4	72
50	Estimated impact of black carbon deposition during pre-monsoon season from Nepal Climate Observatory (Pyramid) data and snow albedo changes over Himalayan glaciers. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 6603-6615	6.8	139
49	Reconstructions of annual discharge and equilibrium line altitude of glaciers at Qilian Shan, northwest China, from 1978 to 2002. <i>Hydrological Processes</i> , 2010 , 24, 2798-2806	3.3	6
48	A shallow ice core re-drilled on the Dundee Ice Cap, western China: recent changes in the Asian high mountains. <i>Environmental Research Letters</i> , 2009 , 4, 045207	6.2	12
47	Recent changes in Imja Glacial Lake and its damming moraine in the Nepal Himalaya revealed by in situ surveys and multi-temporal ASTER imagery. <i>Environmental Research Letters</i> , 2009 , 4, 045205	6.2	119
46	Simplification of heat balance calculation and its application to the glacier runoff from the July 1st Glacier in northwest China since the 1930s. <i>Hydrological Processes</i> , 2009 , 23, 585-596	3.3	12

45	Total solar eclipse over Antarctica on 23 November 2003 and its effects on the atmosphere and snow near the ice sheet surface at Dome Fuji. <i>Journal of Geophysical Research</i> , 2009 , 114,		14
44	Effect of precipitation seasonality on climatic sensitivity of glacier mass balance. <i>Earth and Planetary Science Letters</i> , 2008 , 276, 14-19	5.3	143
43	Performance of ASTER and SRTM DEMs, and their potential for assessing glacial lakes in the Lunana region, Bhutan Himalaya. <i>Journal of Glaciology</i> , 2008 , 54, 220-228	3.4	140
42	Influence of precipitation seasonality on glacier mass balance and its sensitivity to climate change. <i>Annals of Glaciology</i> , 2008 , 48, 88-92	2.5	47
41	Rapid decrease of mass balance observed in the Xiao (Lesser) Dongkemadi Glacier, in the central Tibetan Plateau. <i>Hydrological Processes</i> , 2008 , 22, 2953-2958	3.3	63
40	Effect of dust event timing on glacier runoff: sensitivity analysis for a Tibetan glacier. <i>Hydrological Processes</i> , 2007 , 21, 2892-2896	3.3	46
39	Characteristics and climatic sensitivities of runoff from a cold-type glacier on the Tibetan Plateau. <i>Hydrological Processes</i> , 2007 , 21, 2882-2891	3.3	55
38	Use of Positive Degree-Day Methods for Calculating Snow and Ice Melting and Discharge in Glacierized Basins in the Langtang Valley, Central Nepal 2006 , 5-14		6
37	Concentrations and source variations of n-alkanes in a 21 m ice core and snow samples at Belukha glacier, Russian Altai mountains. <i>Annals of Glaciology</i> , 2006 , 43, 142-147	2.5	10
36	Climatic and atmospheric circulation pattern variability from ice-core isotope/geochemistry records (Altai, Tien Shan and Tibet). <i>Annals of Glaciology</i> , 2006 , 43, 49-60	2.5	105
35	Estimation of atmospheric transmissivity of solar radiation from precipitation in the Himalaya and the Tibetan Plateau. <i>Annals of Glaciology</i> , 2006 , 43, 344-350	2.5	12
34	Thirty-year history of glacier melting in the Nepal Himalayas. <i>Journal of Geophysical Research</i> , 2006 , 111,		18
33	Stable isotopes in daily precipitation at Dome Fuji, East Antarctica. <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n/a	4.9	91
32	Aeolian dust experiment on climate impact: An overview of Japan-China joint project ADEC. <i>Global and Planetary Change</i> , 2006 , 52, 142-172	4.2	119
31	A snow algal community on Akkem glacier in the Russian Altai mountains. <i>Annals of Glaciology</i> , 2006 , 43, 378-384	2.5	43
30	Snow algae in a Himalayan ice core: new environmental markers for ice-core analyses and their correlation with summer mass balance. <i>Annals of Glaciology</i> , 2006 , 43, 148-153	2.5	15
29	Use of ice cores from glaciers with melting for reconstructing mean summer temperature variations. <i>Annals of Glaciology</i> , 2006 , 43, 167-171	2.5	9
28	Five decades of shrinkage of July 1st glacier, Qilian Shan, China. <i>Journal of Glaciology</i> , 2006 , 52, 11-16	3.4	27

27	Recent studies on fluctuations of glaciers and sea-level. <i>Journal of the Japanese Society of Snow and Ice</i> , 2006 , 68, 625-637	0.1	1
26	Stable-isotope time series and precipitation origin from firn-core and snow samples, Altai glaciers, Siberia. <i>Journal of Glaciology</i> , 2005 , 51, 637-654	3.4	38
25	Dating of seasonal snow/firn accumulation layers using pollen analysis. <i>Journal of Glaciology</i> , 2005 , 51, 483-490	3.4	37
24	Application of pollen analysis to dating of ice cores from lower-latitude glaciers. <i>Journal of Geophysical Research</i> , 2004 , 109,		30
23	Distribution Characteristics and Energy Balance of Ice Cliffs on Debris-covered Glaciers, Nepal Himalaya. <i>Arctic, Antarctic, and Alpine Research</i> , 2002 , 34, 12-19	1.8	77
22	Variation of precipitation $\delta^{18}O$ in Langtang Valley Himalayas. <i>Science in China Series D: Earth Sciences</i> , 2001 , 44, 769-778		18
21	Mass balance of Xiao Dongkemadi glacier on the central Tibetan Plateau from 1989 to 1995. <i>Annals of Glaciology</i> , 2000 , 31, 159-163	2.5	38
20	Himalayan ice-core dating with snow algae. <i>Journal of Glaciology</i> , 2000 , 46, 335-340	3.4	45
19	Effect of summer accumulation on glacier mass balance on the Tibetan Plateau revealed by mass-balance model. <i>Journal of Glaciology</i> , 2000 , 46, 244-252	3.4	181
18	New eyes in the sky measure glaciers and ice sheets. <i>Eos</i> , 2000 , 81, 265	1.5	37
17	Changes in glaciers in Hidden Valley, Mukut Himal, Nepal Himalayas, from 1974 to 1994. <i>Journal of Glaciology</i> , 1997 , 43, 583-588	3.4	55
16	Monitoring and prediction of shrinkage of a small glacier in the Nepal Himalaya. <i>Annals of Glaciology</i> , 1997 , 24, 90-94	2.5	24
15	Changes in glaciers in Hidden Valley, Mukut Himal, Nepal Himalayas, from 1974 to 1994. <i>Journal of Glaciology</i> , 1997 , 43, 583-588	3.4	5
14	Monitoring and prediction of shrinkage of a small glacier in the Nepal Himalaya. <i>Annals of Glaciology</i> , 1997 , 24, 90-94	2.5	12
13	Superimposed ice in glacier mass balance on the Tibetan Plateau. <i>Journal of Glaciology</i> , 1996 , 42, 454-460.	0.4	43
12	Superimposed ice in glacier mass balance on the Tibetan Plateau. <i>Journal of Glaciology</i> , 1996 , 42, 454-460.	0.4	1
11	First in situ record of decadal glacier mass balance (2003-2014) from the Bhutan Himalaya. <i>Annals of Glaciology</i> , 1987 , 9, 5-10	2.5	25
10	Distribution Characteristics and Energy Balance of Ice Cliffs on Debris-covered Glaciers, Nepal Himalaya		50

9	Preliminary estimation of black carbon deposition from Nepal Climate Observatory-Pyramid data and its possible impact on snow albedo changes over Himalayan glaciers during the pre-monsoon season	5
8	Modelling runoff from a Himalayan debris-covered glacier	7
7	Potential flood volume of Himalayan glacial lakes	4
6	GrSMBMIP: Intercomparison of the modelled 1980–2012 surface mass balance over the Greenland Ice sheet	6
5	Spatial debris-cover effect on the maritime glaciers of Mount Gongga, south-eastern Tibetan Plateau	3
4	The GAMDAM Glacier Inventory: a quality controlled inventory of Asian glaciers	12
3	Climate regime of Asian glaciers revealed by GAMDAM Glacier Inventory	2
2	Climatic and topographic influences on glacier distribution in the Bhutan Himalaya	1
1	Ice core drilling on a high-elevation accumulation zone of Trambau Glacier in the Nepal Himalaya. <i>Annals of Glaciology</i> , 1-7	2.5 1