

Jianhui Chen

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

6,351
citations

76326

40
h-index

66911

78
g-index

82
all docs

82
docs citations

82
times ranked

3202
citing authors

#	ARTICLE	IF	CITATIONS
1	Holocene moisture evolution in arid central Asia and its out-of-phase relationship with Asian monsoon history. <i>Quaternary Science Reviews</i> , 2008, 27, 351-364.	3.0	967
2	East Asian summer monsoon precipitation variability since the last deglaciation. <i>Scientific Reports</i> , 2015, 5, 11186.	3.3	534
3	Westerlies Asia and monsoonal Asia: Spatiotemporal differences in climate change and possible mechanisms on decadal to sub-orbital timescales. <i>Earth-Science Reviews</i> , 2019, 192, 337-354.	9.1	366
4	Holocene East Asian summer monsoon records in northern China and their inconsistency with Chinese stalagmite $\delta^{18}O$ records. <i>Earth-Science Reviews</i> , 2015, 148, 194-208.	9.1	275
5	Hydroclimatic changes in China and surroundings during the Medieval Climate Anomaly and Little Ice Age: spatial patterns and possible mechanisms. <i>Quaternary Science Reviews</i> , 2015, 107, 98-111.	3.0	268
6	A persistent Holocene wetting trend in arid central Asia, with wettest conditions in the late Holocene, revealed by multi-proxy analyses of loess-paleosol sequences in Xinjiang, China. <i>Quaternary Science Reviews</i> , 2016, 146, 134-146.	3.0	261
7	Spatiotemporal precipitation variations in the arid Central Asia in the context of global warming. <i>Science China Earth Sciences</i> , 2011, 54, 1812-1821.	5.2	234
8	Holocene vegetation history, precipitation changes and Indian Summer Monsoon evolution documented from sediments of Xingyun Lake, south-west China. <i>Journal of Quaternary Science</i> , 2014, 29, 661-674.	2.1	171
9	Humid Little Ice Age in arid central Asia documented by Bosten Lake, Xinjiang, China. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 1280-1290.	0.9	156
10	Holocene moisture and East Asian summer monsoon evolution in the northeastern Tibetan Plateau recorded by Lake Qinghai and its environs: A review of conflicting proxies. <i>Quaternary Science Reviews</i> , 2016, 154, 111-129.	3.0	143
11	Physical Mechanisms of Summer Precipitation Variations in the Tarim Basin in Northwestern China. <i>Journal of Climate</i> , 2015, 28, 3579-3591.	3.2	138
12	Palaeosol development in the Chinese Loess Plateau as an indicator of the strength of the East Asian summer monsoon: Evidence for a mid-Holocene maximum. <i>Quaternary International</i> , 2014, 334-335, 155-164.	1.5	129
13	Definition of the core zone of the "westerlies-dominated climatic regime", and its controlling factors during the instrumental period. <i>Science China Earth Sciences</i> , 2015, 58, 676-684.	5.2	127
14	Interannual precipitation variations in the mid-latitude Asia and their association with large-scale atmospheric circulation. <i>Science Bulletin</i> , 2013, 58, 3962-3968.	1.7	119
15	Rapid warming in mid-latitude central Asia for the past 100 years. <i>Frontiers of Earth Science</i> , 2009, 3, 42-50.	0.5	108
16	Holocene moisture variations over the arid central Asia revealed by a comprehensive sand-dune record from the central Tian Shan, NW China. <i>Quaternary Science Reviews</i> , 2017, 174, 13-32.	3.0	108
17	Aerosol-weakened summer monsoons decrease lake fertilization on the Chinese Loess Plateau. <i>Nature Climate Change</i> , 2017, 7, 190-194.	18.8	106
18	Asian dust-storm activity dominated by Chinese dynasty changes since 2000 BP. <i>Nature Communications</i> , 2020, 11, 992.	12.8	95

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19	Decoupled early Holocene summer temperature and monsoon precipitation in southwest China. <i>Quaternary Science Reviews</i> , 2018, 193, 54-67.	3.0	90
20	A 2000-year dust storm record from Lake Sugan in the dust source area of arid China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2149-2160.	3.3	78
21	On the timing of the East Asian summer monsoon maximum during the Holocene—Does the speleothem oxygen isotope record reflect monsoon rainfall variability?. <i>Science China Earth Sciences</i> , 2016, 59, 2328-2338.	5.2	76
22	A 1000-year chironomid-based salinity reconstruction from varved sediments of Sugan Lake, Qaidam Basin, arid Northwest China, and its palaeoclimatic significance. <i>Science Bulletin</i> , 2009, 54, 3749-3759.	1.7	74
23	Peatland initiation and carbon accumulation in China over the last 50,000 years. <i>Earth-Science Reviews</i> , 2014, 128, 139-146.	9.1	74
24	Humid medieval warm period recorded by magnetic characteristics of sediments from Gonghai Lake, Shanxi, North China. <i>Science Bulletin</i> , 2011, 56, 2464-2474.	1.7	73
25	A climatological northern boundary index for the East Asian summer monsoon and its interannual variability. <i>Science China Earth Sciences</i> , 2018, 61, 13-22.	5.2	70
26	Vegetation succession and East Asian Summer Monsoon Changes since the last deglaciation inferred from high-resolution pollen record in Gonghai Lake, Shanxi Province, China. <i>Holocene</i> , 2017, 27, 835-846.	1.7	67
27	New insights on Chinese cave $\delta^{18}O$ records and their paleoclimatic significance. <i>Earth-Science Reviews</i> , 2020, 207, 103216.	9.1	67
28	Dry early Holocene revealed by sand dune accumulation chronology in Bayanbulak Basin (Xinjiang, NW China). <i>Journal of Geophysical Research</i> , 2017, 122, 1055-1065.	1.7	65
29	Asynchronous evolution of the isotopic composition and amount of precipitation in north China during the Holocene revealed by a record of compound-specific carbon and hydrogen isotopes of long-chain n-alkanes from an alpine lake. <i>Earth and Planetary Science Letters</i> , 2016, 446, 68-76.	4.4	65
30	Long-term summer warming trend during the Holocene in central Asia indicated by alpine peat $\delta^{13}C$ -cellulose $\delta^{13}C$ record. <i>Quaternary Science Reviews</i> , 2019, 203, 56-67.	3.0	60
31	Major advances in studies of the physical geography and living environment of China during the past 70 years and future prospects. <i>Science China Earth Sciences</i> , 2019, 62, 1665-1701.	5.2	58
32	Paleoenvironmental changes recorded in a luminescence dated loess/paleosol sequence from the Tianshan Mountains, arid central Asia, since the Penultimate Glaciation. <i>Earth and Planetary Science Letters</i> , 2016, 448, 1-12.	4.4	57
33	Environmental magnetic studies of sediment cores from Gonghai Lake: implications for monsoon evolution in North China during the late glacial and Holocene. <i>Journal of Paleolimnology</i> , 2013, 49, 447-464.	1.6	53
34	Variations in the oxygen isotopic composition of precipitation in the Tianshan Mountains region and their significance for the Westerly circulation. <i>Journal of Chinese Geography</i> , 2015, 25, 801-816.	3.9	53
35	Differential ice volume and orbital modulation of Quaternary moisture patterns between Central and East Asia. <i>Earth and Planetary Science Letters</i> , 2020, 530, 115901.	4.4	53
36	Megadrought and cultural exchange along the proto-silk road. <i>Science Bulletin</i> , 2021, 66, 603-611.	9.0	52

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37	Chinese cave $\delta^{18}O$ records do not represent northern East Asian summer monsoon rainfall. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2987-E2988.	7.1	49
38	Holocene dust storm variations over northern China: transition from a natural forcing to an anthropogenic forcing. <i>Science Bulletin</i> , 2021, 66, 2516-2527.	9.0	49
39	High-resolution climate change in mid-late Holocene on Tianchi Lake, Liupan Mountain in the Loess Plateau in central China and its significance. <i>Science Bulletin</i> , 2010, 55, 2118-2121.	1.7	44
40	Temperature-induced dry climate in basins in the northeastern Tibetan Plateau during the early to middle Holocene. <i>Quaternary Science Reviews</i> , 2020, 237, 106311.	3.0	44
41	Chemical weathering over the last 1200 years recorded in the sediments of Gonghai Lake, Liangmou Mountains, North China: a high-resolution proxy of past climate. <i>Boreas</i> , 2014, 43, 914-923.	2.4	39
42	High agricultural water consumption led to the continued shrinkage of the Aral Sea during 1992–2015. <i>Science of the Total Environment</i> , 2021, 777, 145993.	8.0	36
43	Dipolar mode of precipitation changes between north China and the Yangtze River Valley existed over the entire Holocene: Evidence from the sediment record of Nanyi Lake. <i>International Journal of Climatology</i> , 2021, 41, 1667-1681.	3.5	34
44	Sedimentary Pediastrum record of middle–late Holocene temperature change and its impacts on early human culture in the desert-oasis area of northwestern China. <i>Quaternary Science Reviews</i> , 2021, 265, 107054.	3.0	34
45	Holocene Solar Activity Imprint on Centennial–to Multidecadal–Scale Hydroclimatic Oscillations in Arid Central Asia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 2562-2573.	3.3	33
46	Unstable Little Ice Age climate revealed by high-resolution proxy records from northwestern China. <i>Climate Dynamics</i> , 2019, 53, 1517-1526.	3.8	30
47	A novel procedure for pollen-based quantitative paleoclimate reconstructions and its application in China. <i>Science China Earth Sciences</i> , 2017, 60, 2059-2066.	5.2	29
48	Spatiotemporal variations of aridity in China during 1961–2015: decomposition and attribution. <i>Science Bulletin</i> , 2018, 63, 1187-1199.	9.0	26
49	Relationships between chironomids and water depth in Bosten Lake, Xinjiang, northwest China. <i>Journal of Paleolimnology</i> , 2014, 51, 313-323.	1.6	25
50	Inconsistency between records of $\delta^{18}O$ and trace element ratios from stalagmites: Evidence for increasing mid–late Holocene moisture in arid central Asia. <i>Holocene</i> , 2020, 30, 369-379.	1.7	24
51	Changes of climate regimes during the last millennium and the twenty-first century simulated by the Community Earth System Model. <i>Quaternary Science Reviews</i> , 2018, 180, 42-56.	3.0	24
52	Hydroclimatic changes over the past 900 years documented by the sediments of Tiwaike Lake, Altai Mountains, Northwestern China. <i>Quaternary International</i> , 2017, 452, 91-101.	1.5	23
53	Weakening of the East Asian summer monsoon at 1000–1100 A.D. within the Medieval Climate Anomaly: Possible linkage to changes in the Indian Ocean–western Pacific. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 2209-2219.	3.3	21
54	The modulation of westerlies–monsoon interaction on climate over the monsoon boundary zone in East Asia. <i>International Journal of Climatology</i> , 2021, 41, E3049.	3.5	21

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55	A chironomid-based record of temperature variability during the past 4000 years in northern China and its possible societal implications. <i>Climate of the Past</i> , 2018, 14, 383-396.	3.4	18
56	Vegetation History and Precipitation Changes in the NE Qinghai-Tibet Plateau: A 7,900-year Pollen Record From Caodalain Lake. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA004126.	2.9	18
57	Evolution of integrated lake status since the last deglaciation: A high-resolution sedimentary record from Lake Gonghai, Shanxi, China. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2018, 496, 175-182.	2.3	17
58	Biogeochemical responses to climate change and anthropogenic nitrogen deposition from a ~1/4200-year record from Tianchi Lake, Chinese Loess Plateau. <i>Quaternary International</i> , 2018, 493, 22-30.	1.5	17
59	Moisture sources of extreme precipitation events in arid Central Asia and their relationship with atmospheric circulation. <i>International Journal of Climatology</i> , 2021, 41, E271.	3.5	16
60	Pediastrum (Chlorophyceae) assemblages in surface lake sediments in China and western Mongolia and their environmental significance. <i>Review of Palaeobotany and Palynology</i> , 2021, 289, 104396.	1.5	15
61	Late Holocene land use evolution and vegetation response to climate change in the watershed of Xingyun Lake, SW China. <i>Catena</i> , 2022, 211, 105973.	5.0	15
62	Late Holocene transition from natural to anthropogenic forcing of vegetation change in the semi-arid region of northern China. <i>Quaternary Science Reviews</i> , 2022, 287, 107561.	3.0	15
63	Holocene Moisture Variations in Western Arid Central Asia Inferred From Loess Records From NE Iran. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008616.	2.5	14
64	Response of chironomid assemblages to East Asian summer monsoon precipitation variability in northern China since the last deglaciation. <i>Journal of Quaternary Science</i> , 2016, 31, 967-982.	2.1	12
65	A 14.7 Ka record of earth surface processes from the arid-monsoon transitional zone of China. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 723-734.	2.5	10
66	North-South dipolar mode of precipitation changes in eastern China extends to the Last Deglaciation. <i>Science Bulletin</i> , 2018, 63, 1604-1605.	9.0	10
67	No evidence for an anti-phased Holocene moisture regime in mountains and basins in Central Asian: Records from Ili loess, Xinjiang. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2021, 572, 110407.	2.3	10
68	The PMIP3 Simulated Climate Changes over Arid Central Asia during the Mid-Holocene and Last Glacial Maximum. <i>Acta Geologica Sinica</i> , 2020, 94, 725-742.	1.4	9
69	Changes of hydroclimatic patterns in China in the present day and future. <i>Science Bulletin</i> , 2020, 65, 1061-1063.	9.0	8
70	Biofuels Reserve Controlled Wildfire Regimes Since the Last Deglaciation: A Record From Gonghai Lake, North China. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094042.	4.0	8
71	Mechanism of winter precipitation variations in the southern arid Central Asia. <i>International Journal of Climatology</i> , 2022, 42, 4477-4490.	3.5	8
72	Weakened dust activity in southern Central Asia during Heinrich events. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2022, 587, 110805.	2.3	8

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73	Long-distance modern analogues bias results of pollen-based precipitation reconstructions. <i>Science Bulletin</i> , 2022, 67, 1115-1117.	9.0	8
74	The impact of proxy selection strategies on a millennium-long ensemble of hydroclimatic records in Monsoon Asia. <i>Quaternary Science Reviews</i> , 2019, 223, 105917.	3.0	7
75	Impact of Abrupt Late Holocene Monsoon Climate Change on the Status of an Alpine Lake in North China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031877.	3.3	7
76	Spatial homogenization of soil-surface pollen assemblages improves the reliability of pollen-climate calibration-set. <i>Science China Earth Sciences</i> , 2020, 63, 1758-1766.	5.2	6
77	Differences in the evolutionary pattern of dust storms over the past 2000 years between eastern and western China and the driving mechanisms. <i>Science China Earth Sciences</i> , 2020, 63, 1422-1424.	5.2	5
78	Neoglacial trends in diatom dynamics from a small alpine lake in the Qinling mountains of central China. <i>Climate of the Past</i> , 2020, 16, 543-554.	3.4	5
79	A 17 ka multi-proxy paleoclimatic record on the northeastern Tibetan Plateau: implications for the northernmost boundary of the Asian summer monsoon during the Holocene. <i>International Journal of Climatology</i> , 0, , .	3.5	5
80	The luminescence dating chronology of a deep core from Bosten Lake (<sc>NW</sc> China) in arid central Asia reveals lake evolution over the last 220 ka. <i>Boreas</i> , 2017, 46, 264-281.	2.4	3
81	Changes in vegetation and moisture in the northern Tianshan of China over the past 450 years. <i>Frontiers of Earth Science</i> , 2020, 14, 479-491.	2.1	2