

# Zhonghui Liu

## List of Publications by Year in descending order

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110  
papers

9,206  
citations

61857

43  
h-index

40881

93  
g-index

120  
all docs

120  
docs citations

120  
times ranked

7500  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transient Simulation of Last Deglaciation with a New Mechanism for BÄlling-AllerÄd Warming. Science, 2009, 325, 310-314.	6.0	843
2	Global Cooling During the Eocene-Oligocene Climate Transition. Science, 2009, 323, 1187-1190.	6.0	611
3	High Earth-system climate sensitivity determined from Pliocene carbon dioxide concentrations. Nature Geoscience, 2010, 3, 27-30.	5.4	468
4	Global climate evolution during the last deglaciation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1134-42.	3.3	422
5	A 40-million-year history of atmospheric CO <sub>2</sub> . Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20130096.	1.6	344
6	The Holocene temperature conundrum. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3501-5.	3.3	344
7	Tropical Ocean Temperatures Over the Past 3.5 Million Years. Science, 2010, 328, 1530-1534.	6.0	293
8	Patterns and mechanisms of early Pliocene warmth. Nature, 2013, 496, 43-49.	13.7	290
9	Evolution of the Eastern Tropical Pacific Through Plio-Pleistocene Glaciation. Science, 2006, 312, 79-83.	6.0	289
10	The Role of Carbon Dioxide During the Onset of Antarctic Glaciation. Science, 2011, 334, 1261-1264.	6.0	262
11	Greatly Expanded Tropical Warm Pool and Weakened Hadley Circulation in the Early Pliocene. Science, 2009, 323, 1714-1718.	6.0	256
12	The influence of 14C reservoir age on interpretation of paleolimnological records from the Tibetan Plateau. Quaternary Science Reviews, 2012, 48, 67-79.	1.4	228
13	A 12-Million-Year Temperature History of the Tropical Pacific Ocean. Science, 2014, 344, 84-87.	6.0	227
14	Global monsoons in the mid-Holocene and oceanic feedback. Climate Dynamics, 2004, 22, 157-182.	1.7	203
15	High-latitude influence on the eastern equatorial Pacific climate in the early Pleistocene epoch. Nature, 2004, 427, 720-723.	13.7	185
16	Large Holocene summer temperature oscillations and impact on the peopling of the northeastern Tibetan Plateau. Geophysical Research Letters, 2016, 43, 1323-1330.	1.5	150
17	Dune mobility and aridity at the desert margin of northern China at a time of peak monsoon strength. Geology, 2009, 37, 947-950.	2.0	145
18	Dynamics of the intertropical convergence zone over the western Pacific during the Little Ice Age. Nature Geoscience, 2015, 8, 315-320.	5.4	137

#	ARTICLE	IF	CITATIONS
19	Biogeochemical evidence of Holocene East Asian summer and winter monsoon variability from a tropical maar lake in southern China. <i>Quaternary Science Reviews</i> , 2015, 111, 51-61.	1.4	121
20	South China Sea hydrological changes and Pacific Walker Circulation variations over the last millennium. <i>Nature Communications</i> , 2011, 2, 293.	5.8	113
21	Precession-band variance missing from East Asian monsoon runoff. <i>Nature Communications</i> , 2018, 9, 3364.	5.8	112
22	The Connected Isotopic Water Cycle in the Community Earth System Model Version 1. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2547-2566.	1.3	111
23	A 4-Ma record of thermal evolution in the tropical western Pacific and its implications on climate change. <i>Earth and Planetary Science Letters</i> , 2011, 309, 10-20.	1.8	106
24	Late Holocene coupled moisture and temperature changes on the northern Tibetan Plateau. <i>Quaternary Science Reviews</i> , 2013, 80, 47-57.	1.4	103
25	800-kyr land temperature variations modulated by vegetation changes on Chinese Loess Plateau. <i>Nature Communications</i> , 2019, 10, 1958.	5.8	97
26	Late Miocene episodic lakes in the arid Tarim Basin, western China. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16292-16296.	3.3	91
27	Younger Dryas cooling and the Greenland climate response to CO <sub>2</sub> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11101-11104.	3.3	85
28	Holocene temperature fluctuations in the northern Tibetan Plateau. <i>Quaternary Research</i> , 2013, 80, 55-65.	1.0	85
29	Distribution of glycerol dialkyl glycerol tetraethers in surface sediments of Lake Qinghai and surrounding soil. <i>Organic Geochemistry</i> , 2012, 47, 78-87.	0.9	84
30	Revisiting the Paleogene climate pattern of East Asia: A synthetic review. <i>Earth-Science Reviews</i> , 2014, 139, 213-230.	4.0	80
31	Distribution of the C37 tetra-unsaturated alkenone in Lake Qinghai, China: A potential lake salinity indicator. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 988-997.	1.6	75
32	Alkenone-based reconstruction of late-Holocene surface temperature and salinity changes in Lake Qinghai, China. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	74
33	Salinity control on long-chain alkenone distributions in lake surface waters and sediments of the northern Qinghai-Tibetan Plateau, China. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 1693-1703.	1.6	73
34	Possible obliquity-forced warmth in southern Asia during the last glacial stage. <i>Science Bulletin</i> , 2021, 66, 1136-1145.	4.3	71
35	Distribution of glycerol dialkyl glycerol tetraether lipids along an altitudinal transect on Mt. Xiangpi, NE Qinghai-Tibetan Plateau, China. <i>Organic Geochemistry</i> , 2013, 57, 76-83.	0.9	68
36	Millennial-scale hydroclimate variations in southwest China linked to tropical Indian Ocean since the Last Glacial Maximum. <i>Geology</i> , 2017, 45, 435-438.	2.0	67

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37	Extreme aridification since the beginning of the Pliocene in the Tarim Basin, western China. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 485, 189-200.	1.0	57
38	Water depth affecting thaumarchaeol production in Lake Qinghai, northeastern Qinghaiâ€“Tibetan plateau: Implications for paleo lake levels and paleoclimate. <i>Chemical Geology</i> , 2014, 368, 76-84.	1.4	53
39	Widespread occurrence of distinct alkenones from Group I haptophytes in freshwater lakes: Implications for paleotemperature and paleoenvironmental reconstructions. <i>Earth and Planetary Science Letters</i> , 2018, 492, 239-250.	1.8	53
40	Early onset and origin of 100-kyr cycles in Pleistocene tropical SST records. <i>Earth and Planetary Science Letters</i> , 2008, 265, 703-715.	1.8	51
41	Solar influenced late Holocene temperature changes on the northern Tibetan Plateau. <i>Science Bulletin</i> , 2013, 58, 1053-1059.	1.7	50
42	Astronomical constraints on global carbon-cycle perturbation during Oceanic Anoxic Event 2 (OAE2). <i>Earth and Planetary Science Letters</i> , 2017, 462, 35-46.	1.8	47
43	Plioâ€“Pleistocene denitrification in the eastern tropical North Pacific: Intensification at 2.1 Ma. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	45
44	The development of late Holocene coastal cooling in the northern South China Sea. <i>Quaternary International</i> , 2014, 349, 300-307.	0.7	45
45	Biomarker-based reconstructions of Holocene lake-level changes at Lake Gahai on the northeastern Tibetan Plateau. <i>Holocene</i> , 2014, 24, 405-412.	0.9	44
46	Orbital climate variability on the northeastern Tibetan Plateau across the Eoceneâ€“Oligocene transition. <i>Nature Communications</i> , 2020, 11, 5249.	5.8	44
47	Salinity controlled isomerization of lacustrine $\alpha$ -ODTs impacts the associated $\delta^{13}C_{org}$ and $\delta^{15}N_{org}$ . <i>Earth and Planetary Science Letters</i> , 2019, 511, 15-24.	1.6	44
48	Deglacial and Holocene Archaeal Lipid-Inferred Paleohydrology and Paleotemperature History of Lake Qinghai, Northeastern Qinghaiâ€“Tibetan Plateau. <i>Quaternary Research</i> , 2015, 83, 116-126.	1.0	43
49	Glacial-interglacial modulation of eastern tropical North Pacific denitrification over the last 1.8-Myr. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	42
50	Transient temperature asymmetry between hemispheres in the Palaeogene Atlantic Ocean. <i>Nature Geoscience</i> , 2018, 11, 656-660.	5.4	42
51	Branched and isoprenoid tetraether (BIT) index traces water content along two marsh-soil transects surrounding Lake Qinghai: Implications for paleo-humidity variation. <i>Organic Geochemistry</i> , 2013, 59, 75-81.	0.9	41
52	Onset of frequent dust storms in northern China at ~AD 1100. <i>Scientific Reports</i> , 2015, 5, 17111.	1.6	41
53	A new approach for reconstructing Holocene temperatures from a multi-species long chain alkenone record from Lake Qinghai on the northeastern Tibetan Plateau. <i>Organic Geochemistry</i> , 2015, 88, 50-58.	0.9	39
54	Lake Water Depth Controlling Archaeal Tetraether Distributions in Midlatitude Asia: Implications for Paleo Lakeâ€“Level Reconstruction. <i>Geophysical Research Letters</i> , 2019, 46, 5274-5283.	1.5	38

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55	Solar imprints on Asian inland moisture fluctuations over the last millennium. <i>Holocene</i> , 2015, 25, 1935-1943.	0.9	37
56	An Efficient Method for Isolating Individual Long-Chain Alkenones for Compound-Specific Hydrogen Isotope Analysis. <i>Analytical Chemistry</i> , 2007, 79, 3430-3435.	3.2	35
57	Two-stage mid-Brunhes climate transition and mid-Pleistocene human diversification. <i>Earth-Science Reviews</i> , 2020, 210, 103354.	4.0	35
58	Onset of permanent Taklimakan Desert linked to the mid-Pleistocene transition. <i>Geology</i> , 2020, 48, 782-786.	2.0	35
59	Deepwater circulation variation in the South China Sea since the Last Glacial Maximum. <i>Geophysical Research Letters</i> , 2016, 43, 8590-8599.	1.5	33
60	Cenozoic moisture fluctuations on the northeastern Tibetan Plateau and association with global climatic conditions. <i>Journal of Asian Earth Sciences</i> , 2020, 200, 104490.	1.0	33
61	Persistent intensification of the Kuroshio Current during late Holocene cool intervals. <i>Earth and Planetary Science Letters</i> , 2019, 506, 15-22.	1.8	31
62	Global warming-induced Asian hydrological climate transition across the Miocene–Pliocene boundary. <i>Nature Communications</i> , 2021, 12, 6935.	5.8	31
63	Tectonic degassing drove global temperature trends since 20 Ma. <i>Science</i> , 2022, 377, 116-119.	6.0	31
64	Eastern equatorial Pacific cold tongue evolution since the late Miocene linked to extratropical climate. <i>Science Advances</i> , 2019, 5, eaau6060.	4.7	30
65	Holocene climate controls on water isotopic variations on the northeastern Tibetan Plateau. <i>Chemical Geology</i> , 2016, 440, 239-247.	1.4	29
66	Expanded lacustrine sedimentation in the Qaidam Basin on the northern Tibetan Plateau: Manifestation of climatic wetting during the Oligocene icehouse. <i>Earth and Planetary Science Letters</i> , 2021, 565, 116935.	1.8	29
67	Possible reverse trend in Asian summer monsoon strength during the late Holocene. <i>Journal of Asian Earth Sciences</i> , 2013, 69, 102-112.	1.0	28
68	Weakened Yellow Sea Warm Current over the last 2–3 centuries. <i>Quaternary International</i> , 2014, 349, 252-256.	0.7	28
69	Enhanced Tropical Cyclone Intensity in the Western North Pacific During Warm Periods Over the Last Two Millennia. <i>Geophysical Research Letters</i> , 2019, 46, 9145-9153.	1.5	28
70	A 1700-year $\delta^{13}C$ -alkanes hydrogen isotope record of moisture changes in sediments from Lake Sugan in the Qaidam Basin, northeastern Tibetan Plateau. <i>Holocene</i> , 2013, 23, 1350-1354.	0.9	26
71	Peatland evolution and associated environmental changes in central China over the past 40,000 years. <i>Quaternary Research</i> , 2015, 84, 255-261.	1.0	26
72	Mid-Miocene C4 expansion on the Chinese Loess Plateau under an enhanced Asian summer monsoon. <i>Journal of Asian Earth Sciences</i> , 2018, 158, 153-159.	1.0	25

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73	Cenozoic Environmental Changes in the Northern Qaidam Basin Inferred from <i>n</i> -alkane Records. <i>Acta Geologica Sinica</i> , 2014, 88, 1547-1555.	0.8	24
74	Volcanic Eruption Signatures in the Isotope-Enabled Last Millennium Ensemble. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1534-1552.	1.3	24
75	Appraisal of alkenone- and archaeal ether-based salinity indicators in mid-latitude Asian lakes. <i>Earth and Planetary Science Letters</i> , 2020, 538, 116236.	1.8	24
76	Changes in the Radiocarbon Reservoir Age in Lake Xingyun, Southwestern China during the Holocene. <i>PLoS ONE</i> , 2015, 10, e0121532.	1.1	23
77	Environmental controls on long-chain alkenone occurrence and compositional patterns in lacustrine sediments, northwestern China. <i>Organic Geochemistry</i> , 2016, 91, 43-53.	0.9	23
78	Asian Winter Monsoon Imprint on Holocene SST Changes at the Northern Coast of the South China Sea. <i>Geophysical Research Letters</i> , 2019, 46, 13363-13370.	1.5	21
79	Export production fluctuations in the eastern equatorial Pacific during the Pliocene-Pleistocene: Reconstruction using barite accumulation rates. <i>Paleoceanography</i> , 2015, 30, 1455-1469.	3.0	20
80	Northern South China Sea SST changes over the last two millennia and possible linkage with solar irradiance. <i>Quaternary International</i> , 2017, 459, 29-34.	0.7	19
81	Correction to "Alkenone-based reconstruction of late-Holocene surface temperature and salinity changes in Lake Qinghai, China". <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	18
82	Regional moisture source changes inferred from late holocene stable isotope records. <i>Advances in Atmospheric Sciences</i> , 2008, 25, 1021-1028.	1.9	18
83	Long chain alkenones preserved in Miocene lake sediments. <i>Organic Geochemistry</i> , 2012, 50, 19-25.	0.9	18
84	Expedition 342 summary. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	18
85	Development of the Leeuwin Current on the northwest shelf of Australia through the Pliocene-Pleistocene period. <i>Earth and Planetary Science Letters</i> , 2021, 559, 116767.	1.8	18
86	Hydroclimatic variability in loess $\delta^{18}O$ records from the central Chinese Loess Plateau over the past 250 ka. <i>Journal of Asian Earth Sciences</i> , 2018, 155, 49-57.	1.0	17
87	Cooling trend over the past 4 centuries in northeastern Hong Kong waters as revealed by alkenone-derived SST records. <i>Journal of Asian Earth Sciences</i> , 2015, 114, 497-503.	1.0	16
88	Holocene temperature and precipitation variability on the central Tibetan Plateau revealed by multiple palaeo-climatic proxy records from an alpine wetland sequence. <i>Holocene</i> , 2017, 27, 1669-1681.	0.9	15
89	Late Miocene-Pliocene Asian summer monsoon variability linked to both tropical Pacific temperature and Walker Circulation. <i>Earth and Planetary Science Letters</i> , 2021, 561, 116823.	1.8	15
90	Water depth control on <i>n</i> -alkane distribution and organic carbon isotope in mid-latitude Asian lakes. <i>Chemical Geology</i> , 2021, 565, 120070.	1.4	14

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91	Evolution of the Miocene megalake in the western Qaidam Basin, northwestern China. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2021, 571, 110384.	1.0	14
92	Terrestrial responses of low-latitude Asia to the Eocene–Oligocene climate transition revealed by integrated chronostratigraphy. <i>Climate of the Past</i> , 2016, 12, 255-272.	1.3	13
93	U–K <sup>37</sup> temperature estimates from Eemian marine sediments in the southern coast of Hainan Island, tropical China. <i>Journal of Asian Earth Sciences</i> , 2016, 127, 91-99.	1.0	12
94	Exceptional terrestrial warmth around 4200–2800 years ago in Northwest China. <i>Science Bulletin</i> , 2022, 67, 427-436.	4.3	12
95	Enhanced ocean connectivity and volcanism instigated global onset of Cretaceous Oceanic Anoxic Event 2 (OAE2) ~1494.5 million years ago. <i>Earth and Planetary Science Letters</i> , 2022, 578, 117331.	1.8	12
96	Downcore variations of carbon reservoir ages linked to lake level changes in northwest China. <i>Quaternary Geochronology</i> , 2020, 60, 101105.	0.6	9
97	Site U1404. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	9
98	Enhanced North Pacific subtropical gyre circulation during the late Holocene. <i>Nature Communications</i> , 2021, 12, 5957.	5.8	9
99	Hydrogen isotopic compositions of plant leaf lipids are unaffected by a twofold pCO <sub>2</sub> change in growth chambers. <i>Organic Geochemistry</i> , 2008, 39, 478-482.	0.9	8
100	Assimilation of ancient organic carbon by zooplankton in Tibetan Plateau lakes is depending on watershed characteristics. <i>Limnology and Oceanography</i> , 2018, 63, 2359-2371.	1.6	7
101	Summer monsoon–induced upwelling dominated coastal sea surface temperature variations in the northern South China Sea over the last two millennia. <i>Holocene</i> , 2019, 29, 691-698.	0.9	7
102	Response to Comment on “A 12-million-year temperature history of the tropical Pacific Ocean”. <i>Science</i> , 2014, 346, 1467-1467.	6.0	6
103	n-Alkyl lipid concentrations and distributions in aquatic plants and their individual $\delta^{13}C$ variations. <i>Science China Earth Sciences</i> , 2019, 62, 1441-1452.	2.3	6
104	Evolution of a deep-water ferromanganese nodule in the South China Sea in response to Pacific deep-water circulation and continental weathering during the Plio-Pleistocene. <i>Quaternary Science Reviews</i> , 2020, 229, 106106.	1.4	4
105	Substantial peak size effect on compound-specific $\delta^{13}C$ values analyzed on isotope ratio mass spectrometry. <i>Chemical Geology</i> , 2022, 590, 120721.	1.4	4
106	BIOMARKERS RECORDS FROM LACUSTRINE SEDIMENT, LASEMANN HILLS, EAST ANTARCTICA. <i>Chinese Journal of Polar Research</i> , 2012, 24, .	0.0	2
107	Asian Winter Monsoon Imprint on the Water Column Structure at the Northern South China Sea Coast. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	1
108	Mid-Miocene Lake Level Fluctuations in the Lunpola Basin, Central Tibetan Plateau. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	1

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109	Asian Monsoon Variability Recorded in Other Archives. Developments in Paleoenvironmental Research, 2014, , 145-337.	7.5	0
110	DETAILED EVOLUTION OF OCEANIC ANOXIC EVENT 2 (OAE2) REVEALED BY A REFINED CHEMOSTRATIGRAPHIC RECORD, SOUTHERN TIBET, CHINA. , 2016, , .		0