Zicheng Yu

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8310064/publications.pdf

Version: 2024-02-01

132 papers	12,573 citations	38720 50 h-index	25770 108 g-index
146 all docs	146 docs citations	146 times ranked	10226 citing authors

#	Article	IF	Citations
1	Estimated stocks of circumpolar permafrost carbon with quantified uncertainty ranges and identified data gaps. Biogeosciences, 2014, 11, 6573-6593.	1.3	1,079
2	Holocene moisture evolution in arid central Asia and its out-of-phase relationship with Asian monsoon history. Quaternary Science Reviews, 2008, 27, 351-364.	1.4	967
3	Global peatland dynamics since the Last Glacial Maximum. Geophysical Research Letters, 2010, 37, .	1.5	813
4	Synchronisation of palaeoenvironmental events in the North Atlantic region during the Last Termination: a revised protocol recommended by the INTIMATE group. Quaternary Science Reviews, 2008, 27, 6-17.	1.4	558
5	Northern peatland carbon stocks and dynamics: a review. Biogeosciences, 2012, 9, 4071-4085.	1.3	516
6	Present state of global wetland extent and wetland methane modelling: conclusions from a model inter-comparison project (WETCHIMP). Biogeosciences, 2013, 10, 753-788.	1.3	475
7	A database and synthesis of northern peatland soil properties and Holocene carbon and nitrogen accumulation. Holocene, 2014, 24, 1028-1042.	0.9	404
8	Westerlies Asia and monsoonal Asia: Spatiotemporal differences in climate change and possible mechanisms on decadal to sub-orbital timescales. Earth-Science Reviews, 2019, 192, 337-354.	4.0	366
9	Large stocks of peatland carbon and nitrogen are vulnerable to permafrost thaw. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20438-20446.	3.3	307
10	Climate-related changes in peatland carbon accumulation during the last millennium. Biogeosciences, 2013, 10, 929-944.	1.3	257
11	Vegetation response to Holocene climate change in monsoon-influenced region of China. Earth-Science Reviews, 2009, 97, 242-256.	4.0	247
12	Holocene vegetation and climate history at Hurleg Lake in the Qaidam Basin, northwest China. Review of Palaeobotany and Palynology, 2007, 145, 275-288.	0.8	223
13	Holocene carbon flux histories of the worldâ€™s peatlands. Holocene, 2011, 21, 761-774.	0.9	211
14	Rapid deglacial and early Holocene expansion of peatlands in Alaska. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7347-7352.	3.3	203
15	Holocene vegetation and climate histories in the eastern Tibetan Plateau: controls by insolation-driven temperature or monsoon-derived precipitation changes?. Quaternary Science Reviews, 2011, 30, 1173-1184.	1.4	203
16	Latitudinal limits to the predicted increase of the peatland carbon sink with warming. Nature Climate Change, 2018, 8, 907-913.	8.1	188
17	Possible solar forcing of century-scale drought frequency in the northern Great Plains. Geology, 1999, 27, 263.	2.0	182
18	Expert assessment of future vulnerability of the global peatland carbon sink. Nature Climate Change, 2021, 11, 70-77.	8.1	167

#	Article	IF	Citations
19	Palaeoclimate constraints on the impact of 2 Â°C anthropogenic warming and beyond. Nature Geoscience, 2018, 11, 474-485.	5.4	166
20	Present state of global wetland extent and wetland methane modelling: methodology of a model inter-comparison project (WETCHIMP). Geoscientific Model Development, 2013, 6, 617-641.	1.3	165
21	Hydrologic Variation in the Northern Great Plains During the Last Two Millennia. Quaternary Research, 2000, 53, 175-184.	1.0	157
22	Peatlands and Their Role in the Global Carbon Cycle. Eos, 2011, 92, 97-98.	0.1	153
23	A new data set for estimating organic carbon storage to 3 m depth in soils of the northern circumpolar permafrost region. Earth System Science Data, 2013, 5, 393-402.	3.7	148
24	Abrupt Climate Oscillations During the Last Deglaciation in Central North America. Science, 1998, 282, 2235-2238.	6.0	147
25	Vegetation response to Holocene climate change in East Asian monsoon-margin region. Earth-Science Reviews, 2012, 113, 1-10.	4.0	142
26	Middle Holocene dry climate caused by change in atmospheric circulation patterns: Evidence from lake levels and stable isotopes. Geology, 1997, 25, 251.	2.0	126
27	Holocene climate changes in eastern Beringia (NW North America) â€“ A systematic review of multi-proxy evidence. Quaternary Science Reviews, 2016, 147, 312-339.	1.4	123
28	Spatial and temporal patterns of Holocene vegetation and climate changes in arid and semi-arid China. Quaternary International, 2009, 194, 6-18.	0.7	115
29	Understanding Holocene peat accumulation pattern of continental fens in western Canada. Canadian Journal of Botany, 2003, 81, 267-282.	1.2	110
30	Sensitivity of Northern Peatland Carbon Dynamics to Holocene Climate Change. Geophysical Monograph Series, 0, , 55-69.	0.1	106
31	Transient simulations of the carbon and nitrogen dynamics in northern peatlands: from the Last Glacial Maximum to the 21st century. Climate of the Past, 2013, 9, 1287-1308.	1.3	102
32	Response of interior North America to abrupt climate oscillations in the North Atlantic region during the last deglaciation. Earth-Science Reviews, 2001, 52, 333-369.	4.0	100
33	Carbon sequestration in western Canadian peat highly sensitive to Holocene wet-dry climate cycles at millennial timescales. Holocene, 2003, 13, 801-808.	0.9	98
34	Insights and issues with estimating northern peatland carbon stocks and fluxes since the Last Glacial Maximum. Earth-Science Reviews, 2017, 165, 59-80.	4.0	91
35	Holocene temperature fluctuations in the northern Tibetan Plateau. Quaternary Research, 2013, 80, 55-65.	1.0	85
36	Global-scale pattern of peatland <i>Sphagnum</i> growth driven by photosynthetically active radiation and growing season length. Biogeosciences, 2012, 9, 2737-2746.	1.3	84

#	Article	IF	Citations
37	Sensitive response of desert vegetation to moisture change based on a near-annual resolution pollen record from Gahai Lake in the Qaidam Basin, northwest China. Global and Planetary Change, 2008, 62, 107-114.	1.6	83
38	Widespread global peatland establishment and persistence over the last 130,000 y. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4822-4827.	3.3	82
39	Vegetation history, climate change and human activities over the last 6200years on the Liupan Mountains in the southwestern Loess Plateau in central China. Palaeogeography, Palaeoclimatology, Palaeoecology, 2010, 293, 197-205.	1.0	78
40	Recent acceleration of carbon accumulation in a boreal peatland, south central Alaska. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 41-53.	1.3	74
41	Peatland initiation and carbon accumulation in China over the last 50,000years. Earth-Science Reviews, 2014, 128, 139-146.	4.0	74
42	Evolution of vegetation and climate variability on the Tibetan Plateau over the past 1.74 million years. Science Advances, 2020, 6, eaay6193.	4.7	74
43	Late Holocene Vegetation and Climate Oscillations in the Qaidam Basin of the Northeastern Tibetan Plateau. Quaternary Research, 2010, 73, 59-69.	1.0	71
44	Possible obliquity-forced warmth in southern Asia during the last glacial stage. Science Bulletin, 2021, 66, 1136-1145.	4.3	71
45	Holocene millennial-scale climate variations documented by multiple lake-level proxies in sediment cores from Hurleg Lake, Northwest China. Journal of Paleolimnology, 2010, 44, 995-1008.	0.8	68
46	A 13,000-year peatland palaeohydrological response to the ENSO-related Asian monsoon precipitation changes in the middle Yangtze Valley. Quaternary Science Reviews, 2019, 212, 80-91.	1.4	68
47	Millennial-scale hydroclimate variations in southwest China linked to tropical Indian Ocean since the Last Glacial Maximum. Geology, 2017, 45, 435-438.	2.0	67
48	Holocene Carbon Accumulation of Fen Peatlands in Boreal Western Canada: A Complex Ecosystem Response to Climate Variation and Disturbance. Ecosystems, 2006, 9, 1278-1288.	1.6	66
49	Past abrupt changes, tipping points and cascading impacts in the Earth system. Nature Geoscience, 2021, 14, 550-558.	5.4	62
50	Ecosystem response to Lateglacial and early Holocene climate oscillations in the Great Lakes region of North America. Quaternary Science Reviews, 2000, 19, 1723-1747.	1.4	61
51	Millennial-Scale Rhythms in Peatlands in the Western Interior of Canada and in the Global Carbon Cycle. Quaternary Research, 2000, 54, 155-158.	1.0	55
52	Three amphi-Atlantic century-scale cold events during the BÃ¸lling-AllerÃ¸d warm period. GÃ©ographie Physique Et Quaternaire, 2001, 55, 171-179.	0.2	55
53	Holocene climate trend, variability, and shift documented by lacustrine stable-isotope record in the northeastern United States. Quaternary Science Reviews, 2010, 29, 1831-1843.	1.4	55
54	Surface vegetation patterning controls carbon accumulation in peatlands. Geophysical Research Letters, 2013, 40, 5508-5513.	1.5	54

#	Article	IF	Citations
55	Arctic hydroclimate variability during the last 2000 years: current understanding and research challenges. Climate of the Past, 2018, 14, 473-514.	1.3	54
56	Holocene peatland carbon dynamics in Patagonia. Quaternary Science Reviews, 2013, 69, 125-141.	1.4	53
57	Holocene vegetation and climate change from a lake sediment record in the Tengger Sandy Desert, northwest China. Journal of Arid Environments, 2008, 72, 2054-2064.	1.2	50
58	Modelling long-term peatland dynamics. I. Concepts, review, and proposed design. Ecological Modelling, 2001, 145, 197-210.	1.2	47
59	Evidence for elevated emissions from highâ€latitude wetlands contributing to high atmospheric CH₄ concentration in the early Holocene. Global Biogeochemical Cycles, 2013, 27, 131-140.	1.9	45
60	Carbon accumulation and sequestration of lakes in China during the Holocene. Global Change Biology, 2015, 21, 4436-4448.	4.2	42
61	Modelling long-term peatland dynamics. II. Processes and rates as inferred from litter and peat-core data. Ecological Modelling, 2001, 145, 159-173.	1.2	41
62	Rapid response of forested vegetation to multiple climatic oscillations during the last deglaciation in the northeastern United States. Quaternary Research, 2007, 67, 297-303.	1.0	41
63	Possible orographic and solar controls of Late Holocene centennialâ€scale moisture oscillations in the northeastern Tibetan Plateau. Geophysical Research Letters, 2009, 36, .	1.5	40
64	A 2100-year trace-element and stable-isotope record at decadal resolution from Rice Lake in the Northern Great Plains, USA. Holocene, 2002, 12, 605-617.	0.9	39
65	Quantifying landscape morphology influence on peatland lateral expansion using groundâ€penetrating radar (GPR) and peat core analysis. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 373-384.	1.3	39
66	Sensitive moisture response to Holocene millennial-scale climate variations in the Mid-Atlantic region, USA. Holocene, 2007, 17, 3-8.	0.9	38
67	A 2200-Year Record of Permafrost Dynamics and Carbon Cycling in a Collapse-Scar Bog, Interior Alaska. Ecosystems, 2013, 16, 1-19.	1.6	38
68	Holocene water levels at Rice Lake, Ontario, Canada: sediment, pollen and plant-macrofossil evidence. Holocene, 1994, 4, 141-152.	0.9	36
69	Late Quaternary paleoecology of Thuja and Juniperus (Cupressaceae) at Crawford Lake, Ontario, Canada: pollen, stomata and macrofossils. Review of Palaeobotany and Palynology, 1997, 96, 241-254.	0.8	36
70	Late Quaternary dynamics of tundra and forest vegetation in the southern Niagara Escarpment, Canada. New Phytologist, 2003, 157, 365-390.	3.5	36
71	Late Holocene Natural and Human-Induced Environmental Change Reconstructed from Peat Records in Eastern Central China. Radiocarbon, 2007, 49, 789-798.	0.8	36
72	Influences of Holocene climate and water levels on vegetation dynamics of a lakeside wetland. Canadian Journal of Botany, 1996, 74, 1602-1615.	1.2	34

#	Article	IF	Citations
73	Possible solar forcing of 400-year wetâ€“dry climate cycles in northwestern China. Climatic Change, 2009, 96, 473-482.	1.7	34
74	Holocene peatland and ice-core data constraints on the timing and magnitude of CO ₂ emissions from past land use. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1492-1497.	3.3	34
75	Lateglacial and early Holocene climate oscillations in the Matanuska Valley, south-central Alaska. Quaternary Science Reviews, 2008, 27, 148-161.	1.4	33
76	A 14,000-year environmental change history revealed by mineral magnetic data from White Lake, New Jersey, USA. Earth and Planetary Science Letters, 2006, 246, 27-40.	1.8	31
77	Implications of floristic and environmental variation for carbon cycle dynamics in boreal forest ecosystems of central Canada. Journal of Vegetation Science, 2002, 13, 327-340.	1.1	30
78	Temporalâ€spatial pattern of organic carbon sequestration by Chinese lakes since 1850. Limnology and Oceanography, 2018, 63, 1283-1297.	1.6	30
79	INTegration of Ice-core, MArine, and TErrestrial records (INTIMATE): refining the record of the Last Glacialâ€“Interglacial Transition. Quaternary Science Reviews, 2008, 27, 1-5.	1.4	29
80	Holocene climate controls on water isotopic variations on the northeastern Tibetan Plateau. Chemical Geology, 2016, 440, 239-247.	1.4	29
81	A comparison of radiocarbon ages derived from bulk peat and selected plant macrofossils in basal peat cores from circum-arctic peatlands. Quaternary Geochronology, 2016, 31, 53-61.	0.6	29
82	Climatic history of the northeastern United States during the past 3000 years. Climate of the Past, 2017, 13, 1355-1379.	1.3	29
83	Holocene peatland initiation, lateral expansion, and carbon dynamics in the Zoige Basin of the eastern Tibetan Plateau. Holocene, 2014, 24, 1137-1145.	0.9	28
84	Measurements of hydrogen, oxygen and carbon isotope variability in Sphagnum moss along a microâ€topographical gradient in a southern Patagonian peatland. Journal of Quaternary Science, 2016, 31, 426-435.	1.1	28
85	Transformations of landscape and peatâ€forming ecosystems in response to late Holocene climate change in the western Antarctic Peninsula. Geophysical Research Letters, 2016, 43, 7186-7195.	1.5	28
86	Title is missing!. Journal of Paleolimnology, 2002, 28, 207-217.	0.8	27
87	Holocene climate variability in arid Asia: Nature and mechanisms. Quaternary International, 2009, 194, 1-5.	0.7	26
88	Anthropogenic disturbances caused declines in the wetland area and carbon pool in China during the last four decades. Global Change Biology, 2021, 27, 3837-3845.	4.2	26
89	Lateglacial and Holocene climate, disturbance and permafrost peatland dynamics on the Seward Peninsula, western Alaska. Quaternary Science Reviews, 2013, 63, 42-58.	1.4	25
90	Holocene peatland carbon dynamics in the circum-Arctic region: An introduction. Holocene, 2014, 24, 1021-1027.	0.9	25

#	Article	IF	Citations
91	Complex trajectories of aquatic and terrestrial ecosystem shifts caused by multiple human-induced environmental stresses. Geochimica Et Cosmochimica Acta, 2008, 72, 4338-4351.	1.6	23
92	The capacity of northern peatlands for long-term carbon sequestration. Biogeosciences, 2020, 17, 47-54.	1.3	23
93	Environmental controls on the carbon and water (H and O) isotopes in peatland Sphagnum mosses. Geochimica Et Cosmochimica Acta, 2020, 277, 265-284.	1.6	23
94	A 2700-year high resolution pollen record of climate change from varved Sugan Lake in the Qaidam Basin, northeastern Tibetan Plateau. Palaeogeography, Palaeoclimatology, Palaeoecology, 2010, 297, 290-298.	1.0	22
95	Continental fens in western Canada as effective carbon sinks during the Holocene. Holocene, 2014, 24, 1090-1104.	0.9	22
96	Response of a warm temperate peatland to Holocene climate change in northeastern Pennsylvania. Quaternary Research, 2011, 75, 531-540.	1.0	21
97	Western Pacific Ocean influences on monsoon precipitation in the southwestern Chinese Loess Plateau since the mid-Holocene. Climate Dynamics, 2020, 54, 3121-3134.	1.7	20
98	Hydrology-mediated differential response of carbon accumulation to late Holocene climate change at two peatlands in Southcentral Alaska. Quaternary Science Reviews, 2013, 64, 61-75.	1.4	19
99	Late Holocene vegetation and climate changes in the Great Hinggan Mountains, northeast China. Quaternary International, 2019, 532, 138-145.	0.7	19
100	Vegetation and climate change during Marine Isotope Stage 3 in China. Science Bulletin, 2014, 59, 4444-4455.	1.7	17
101	Peatland Ecosystem Processes in the Maritime Antarctic During Warm Climates. Scientific Reports, 2017, 7, 12344.	1.6	17
102	Centennial-scale dynamics of the Southern Hemisphere Westerly Winds across the Drake Passage over the past two millennia. Geology, 2018, 46, 855-858.	2.0	17
103	The elemental enrichments at Dajiuhu Peatland in the Middle Yangtze Valley in response to changes in East Asian monsoon and human activity since 20,000ÂcalÂyr BP. Science of the Total Environment, 2021, 757, 143990.	3.9	17
104	Power laws governing hydrology and carbon dynamics in northern peatlands. Global and Planetary Change, 2006, 53, 169-175.	1.6	16
105	Recent increase in peatland carbon accumulation in a thermokarst lake basin in southwestern Alaska. Palaeogeography, Palaeoclimatology, Palaeoecology, 2013, 392, 186-195.	1.0	15
106	Resource competition and allelopathy in two peat mosses: implication for niche differentiation. Plant and Soil, 2020, 446, 229-242.	1.8	14
107	Peatbank response to late Holocene temperature and hydroclimate change in the western Antarctic Peninsula. Quaternary Science Reviews, 2018, 188, 77-89.	1.4	12
108	Holocene peatland water regulation response to ~1000-year solar cycle indicated by phytoliths in central China. Journal of Hydrology, 2020, 589, 125169.	2.3	12

#	Article	IF	Citations
109	Reconciling carbonâ€cycle processes from ecosystem to global scales. Frontiers in Ecology and the Environment, 2021, 19, 57-65.	1.9	12
110	Latitude, Elevation, and Mean Annual Temperature Predict Peat Organic Matter Chemistry at a Global Scale. Global Biogeochemical Cycles, 2022, 36, .	1.9	11
111	Late Holocene change in climate and atmospheric circulation inferred from geochemical records at Kepler Lake, south-central Alaska. Journal of Paleolimnology, 2012, 48, 55-67.	0.8	9
112	Temperature influence on peatland carbon accumulation over the last century in Northeast China. Climate Dynamics, 2019, 53, 2161-2173.	1.7	9
113	Peatland development and carbon dynamics since the Last Glacial Maximum in the Hengduan Mountains Region. Catena, 2020, 190, 104525.	2.2	9
114	Modeling Ecosystem Processes and Peat Accumulation in Boreal Peatlands. , 2006, , 313-329.		8
115	Tree-ring width and Î´13C records of industrial stress and recovery in Pennsylvania and New Jersey forests: Implications for CO2 uptake by temperate forests. Chemical Geology, 2010, 273, 250-257.	1.4	8
116	Quantifying peat carbon accumulation in Alaska using a processâ€based biogeochemistry model. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2172-2185.	1.3	8
117	No support for carbon storage of >1,000 GtC in northern peatlands. Nature Geoscience, 2021, 14, 465-467.	5.4	8
118	Intron length polymorphism of Î²-tubulin genes in Deschampsia antarctica Ã‰. Desv. across the western coast of the Antarctic Peninsula. Polar Science, 2019, 19, 151-154.	0.5	7
119	Environmental controls over Holocene carbon accumulation in Distichia muscoides-dominated peatlands in the eastern Andes of Colombia. Quaternary Science Reviews, 2021, 251, 106687.	1.4	6
120	Holocene vegetation and climate changes from fossil pollen records in arid and semi-arid China. Developments in Quaternary Sciences, 2007, 9, 51-65.	0.1	5
121	Major shifts in multidecadal moisture variability in the Midâ€Atlantic region during the last 240 years. Geophysical Research Letters, 2010, 37, .	1.5	5
122	Evaluating CO2 and CH4 dynamics of Alaskan ecosystems during the Holocene Thermal Maximum. Quaternary Science Reviews, 2014, 86, 63-77.	1.4	5
123	Quantifying soil carbon accumulation in Alaskan terrestrial ecosystems during the last 15â€¯000 years. Biogeosciences, 2016, 13, 6305-6319.	1.3	5
124	Modeling Holocene Peatland Carbon Accumulation in North America. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005230.	1.3	5
125	Anthropogenic warming reduces the carbon accumulation of Tibetan Plateau peatlands. Quaternary Science Reviews, 2022, 281, 107449.	1.4	5
126	Multiple early Holocene climate oscillations at Silver Lake, New Jersey and their possible linkage with outburst floods. Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 350-352, 171-179.	1.0	4

#	Article	IF	Citations
127	Peatlands as a model ecosystem of soil carbon dynamics: Reply to Comment on â€œPeatlands and their role in the global carbon cycleâ€• Eos, 2012, 93, 31-31.	0.1	3
128	Regional Climate Change Recorded in Moss Oxygen and Carbon Isotopes from a Late Holocene Peat Archive in the Western Antarctic Peninsula. Geosciences (Switzerland), 2019, 9, 282.	1.0	3
129	Ecological response of a glacier-fed peatland to late Holocene climate and glacier changes on subantarctic South Georgia. Quaternary Science Reviews, 2020, 250, 106679.	1.4	3
130	Multidisciplinary studies in environmental archaeology with particular reference to China: An introduction to the Special Issue. Holocene, 2012, 22, 609-611.	0.9	2
131	Temperature-Dependent Oxygen Isotope Fractionation in Plant Cellulose Biosynthesis Revealed by a Global Dataset of Peat Mosses. Frontiers in Earth Science, 2020, 8, .	0.8	1
132	The Influence of Synoptic Weather Types and Moisture Transport Pathways on Precipitation Isotopes in Southern Patagonia. Atmosphere, 2020, 11, 514.	1.0	1