

# Matthew S Lachniet

## List of Publications by Citations

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55  
papers

2,141  
citations

27  
h-index

46  
g-index

66  
ext. papers

2,447  
ext. citations

5.5  
avg, IF

5.38  
L-index

#	Paper	IF	Citations
55	Climatic and environmental controls on speleothem oxygen-isotope values. <i>Quaternary Science Reviews</i> , <b>2009</b> , 28, 412-432	3.9	472
54	Oxygen isotope values of precipitation and surface waters in northern Central America (Belize and Guatemala) are dominated by temperature and amount effects. <i>Earth and Planetary Science Letters</i> , <b>2009</b> , 284, 435-446	5.3	118
53	Late Pleistocene and Holocene environmental history of the Iguala Valley, Central Balsas Watershed of Mexico. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 11874-81	11.5	100
52	A 1500-year El Niño/Southern Oscillation and rainfall history for the Isthmus of Panama from speleothem calcite. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		86
51	A 2400 yr Mesoamerican rainfall reconstruction links climate and cultural change. <i>Geology</i> , <b>2012</b> , 40, 259-262	5	85
50	Tropical response to the 8200 yr B.P. cold event? Speleothem isotopes indicate a weakened early Holocene monsoon in Costa Rica. <i>Geology</i> , <b>2004</b> , 32, 957	5	75
49	Orbital control of western North America atmospheric circulation and climate over two glacial cycles. <i>Nature Communications</i> , <b>2014</b> , 5, 3805	17.4	71
48	Stable isotope values of Costa Rican surface waters. <i>Journal of Hydrology</i> , <b>2002</b> , 260, 135-150	6	68
47	Use of correlation and stepwise regression to evaluate physical controls on the stable isotope values of Panamanian rain and surface waters. <i>Journal of Hydrology</i> , <b>2006</b> , 324, 115-140	6	62
46	Extreme rainfall activity in the Australian tropics reflects changes in the El Niño/Southern Oscillation over the last two millennia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 4576-81	11.5	59
45	A speleothem record of Holocene climate variability from southwestern Mexico. <i>Quaternary Research</i> , <b>2011</b> , 75, 104-113	1.9	59
44	Climatic backdrop to the terminal Pleistocene extinction of North American mammals. <i>Geology</i> , <b>2012</b> , 40, 1023-1026	5	54
43	Microstructures of sediment flow deposits and subglacial sediments: a comparison. <i>Boreas</i> , <b>2001</b> , 30, 254-262	2.4	54
42	Last Glacial Maximum equilibrium line altitudes in the circum-Caribbean (Mexico, Guatemala, Costa Rica, Colombia, and Venezuela). <i>Quaternary International</i> , <b>2005</b> , 138-139, 129-144	2	53
41	Orbital pacing and ocean circulation-induced collapses of the Mesoamerican monsoon over the past 22,000 y. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 9255-60	11.5	52
40	Holocene warming in western continental Eurasia driven by glacial retreat and greenhouse forcing. <i>Nature Geoscience</i> , <b>2017</b> , 10, 430-435	18.3	50
39	Expansion and Contraction of the Indo-Pacific Tropical Rain Belt over the Last Three Millennia. <i>Scientific Reports</i> , <b>2016</b> , 6, 34485	4.9	44

38	Uranium loss and aragonite-calcite age discordance in a calcitized aragonite stalagmite. <i>Quaternary Geochronology</i> , <b>2012</b> , 14, 26-37	2.7	42
37	A Last Glacial Maximum through middle Holocene stalagmite record of coastal Western Australia climate. <i>Quaternary Science Reviews</i> , <b>2013</b> , 77, 101-112	3.9	39
36	The SISAL database: a global resource to document oxygen and carbon isotope records from speleothems. <i>Earth System Science Data</i> , <b>2018</b> , 10, 1687-1713	10.5	39
35	Caribbean and Pacific moisture sources on the Isthmus of Panama revealed from stalagmite and surface water $\delta^{18}O$ gradients. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	36
34	Late Quaternary glaciation of Costa Rica. <i>Bulletin of the Geological Society of America</i> , <b>2002</b> , 114, 547-558.	9	36
33	Evidence for insolation and Pacific forcing of late glacial through Holocene climate in the Central Mojave Desert (Silver Lake, CA). <i>Quaternary Research</i> , <b>2015</b> , 84, 174-186	1.9	32
32	Revised $^{14}C$ dating of ice wedge growth in interior Alaska (USA) to MIS 2 reveals cold paleoclimate and carbon recycling in ancient permafrost terrain. <i>Quaternary Research</i> , <b>2012</b> , 78, 217-225	1.9	31
31	Multidecadal to multicentury scale collapses of Northern Hemisphere monsoons over the past millennium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 9651-6	11.5	31
30	Two millennia of Mesoamerican monsoon variability driven by Pacific and Atlantic synergistic forcing. <i>Quaternary Science Reviews</i> , <b>2017</b> , 155, 100-113	3.9	29
29	Sea surface temperature control on the stable isotopic composition of rainfall in Panama. <i>Geophysical Research Letters</i> , <b>2009</b> , 36, n/a-n/a	4.9	27
28	Isoscapes of $\delta^{18}O$ and $\delta^2H$ reveal climatic forcings on Alaska and Yukon precipitation. <i>Water Resources Research</i> , <b>2016</b> , 52, 6575-6586	5.4	26
27	Are aragonite stalagmites reliable paleoclimate proxies? Tests for oxygen isotope time-series replication and equilibrium. <i>Bulletin of the Geological Society of America</i> , <b>2015</b> , 127, 1521-1533	3.9	25
26	Glaciohydraulic supercooling in former ice sheets?. <i>Geomorphology</i> , <b>2006</b> , 75, 20-32	4.3	23
25	Late Quaternary moisture export across Central America and to Greenland: evidence for tropical rainfall variability from Costa Rican stalagmites. <i>Quaternary Science Reviews</i> , <b>2009</b> , 28, 3348-3360	3.9	22
24	Deglacial paleoclimate in the southwestern United States: an abrupt 18.6ka cold event and evidence for a North Atlantic forcing of Termination I. <i>Quaternary Science Reviews</i> , <b>2011</b> , 30, 3803-3811	3.9	17
23	Late Quaternary glaciation and equilibrium-line altitudes of the Mayan Ice Cap, Guatemala, Central America. <i>Quaternary Research</i> , <b>2010</b> , 74, 1-7	1.9	15
22	Initiation of a stable convective hydroclimatic regime in Central America circa 9000 years BP. <i>Nature Communications</i> , <b>2020</b> , 11, 716	17.4	14
21	Speleothem Paleoclimatology for the Caribbean, Central America, and North America. <i>Quaternary</i> , <b>2019</b> , 2, 5	2.2	11

20	Microstructures of glacial sediment-flow deposits, Matanuska Glacier, Alaska <b>1999</b> ,		11
19	Arctic cryosphere and Milankovitch forcing of Great Basin paleoclimate. <i>Scientific Reports</i> , <b>2017</b> , 7, 12955	4.9	10
18	Subglacial deformation of trees within overridden foreland strata, Bering Glacier, Alaska. <i>Geomorphology</i> , <b>2006</b> , 75, 201-211	4.3	10
17	A lake sediment stable isotope record of late-middle to late Holocene hydroclimate variability in the western Guatemala highlands. <i>Earth and Planetary Science Letters</i> , <b>2020</b> , 542, 116327	5.3	7
16	Rapid speleothem $\delta^{13}\text{C}$ change in southwestern North America coincident with Greenland stadial 20 and the Toba (Indonesia) supereruption. <i>Geology</i> , <b>2017</b> , 45, 843-846	5	6
15	Extrapolar climate reversal during the last deglaciation. <i>Scientific Reports</i> , <b>2017</b> , 7, 7157	4.9	6
14	Great Basin Paleoclimate and Aridity Linked to Arctic Warming and Tropical Pacific Sea Surface Temperatures. <i>Paleoceanography and Paleoclimatology</i> , <b>2020</b> , 35, e2019PA003785	3.3	5
13	Pacific Southwest United States Holocene Droughts and Pluvials Inferred From Sediment $\delta^{18}\text{O}$ (calcite) and Grain Size Data (Lake Elsinore, California). <i>Frontiers in Earth Science</i> , <b>2019</b> , 7,	3.5	5
12	Late Quaternary glaciation of Costa Rica and Guatemala, Central America. <i>Developments in Quaternary Sciences</i> , <b>2004</b> , 135-138	0.5	5
11	Late Quaternary Climate Variability and Change from Aotearoa New Zealand Speleothems: Progress in Age Modelling, Oxygen Isotope Master Record Construction and Proxy-Model Comparisons. <i>Quaternary</i> , <b>2020</b> , 3, 24	2.2	4
10	Illuminating the Meaning of Asian Monsoon Cave Speleothem Records. <i>Paleoceanography and Paleoclimatology</i> , <b>2020</b> , 35, e2019PA003841	3.3	3
9	Costa Rica and Guatemala. <i>Developments in Quaternary Sciences</i> , <b>2011</b> , 15, 843-848	0.5	2
8	Glacial geology and geomorphology <b>2007</b> ,		2
7	A multiproxy database of western North American Holocene paleoclimate records. <i>Earth System Science Data</i> , <b>2021</b> , 13, 1613-1632	10.5	2
6	A record of mid- and late Holocene paleohydroclimate from Lower Pahrnagat Lake, southern Great Basin. <i>Quaternary Research</i> , <b>2019</b> , 92, 352-364	1.9	1
5	Response to the correspondence article by Dr. Winograd. <i>Quaternary Science Reviews</i> , <b>2012</b> , 45, 129-133	3.9	1
4	Microstructures of sediment flow deposits and subglacial sediments: a comparison. <i>Boreas</i> , <b>2008</b> , 30, 254-264	2.4	1
3	Interhemispheric antiphasing of neotropical precipitation during the past millennium.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2120015119	11.5	1

- 2 Climatic and Topographic Control of the Stable Isotope Values of Rivers on the South Island of New Zealand. *Paleoceanography and Paleoclimatology*, **2021**, 36, e2021PA004220 3.3 0
- 1 Reply to Nott: Assessing biases in speleothem records of flood events. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E4637 11.5