

Jessica E Tierney

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

7,173
citations

61984

43
h-index

60623

81
g-index

103
all docs

103
docs citations

103
times ranked

6456
citing authors

#	ARTICLE	IF	CITATIONS
1	Northern Hemisphere Controls on Tropical Southeast African Climate During the Past 60,000 Years. <i>Science</i> , 2008, 322, 252-255.	12.6	497
2	Multidecadal variability in East African hydroclimate controlled by the Indian Ocean. <i>Nature</i> , 2013, 493, 389-392.	27.8	290
3	Environmental controls on branched tetraether lipid distributions in tropical East African lake sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 4902-4918.	3.9	269
4	Past climates inform our future. <i>Science</i> , 2020, 370, .	12.6	253
5	Distributions of branched GDGTs in a tropical lake system: Implications for lacustrine application of the MBT/CBT paleoproxy. <i>Organic Geochemistry</i> , 2009, 40, 1032-1036.	1.8	248
6	Early onset of industrial-era warming across the oceans and continents. <i>Nature</i> , 2016, 536, 411-418.	27.8	242
7	Rainfall regimes of the Green Sahara. <i>Science Advances</i> , 2017, 3, e1601503.	10.3	231
8	Abrupt Shifts in Horn of Africa Hydroclimate Since the Last Glacial Maximum. <i>Science</i> , 2013, 342, 843-846.	12.6	230
9	A Bayesian, spatially-varying calibration model for the TEX86 proxy. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 127, 83-106.	3.9	219
10	Tropical sea surface temperatures for the past four centuries reconstructed from coral archives. <i>Paleoceanography</i> , 2015, 30, 226-252.	3.0	209
11	Glacial cooling and climate sensitivity revisited. <i>Nature</i> , 2020, 584, 569-573.	27.8	206
12	Late Quaternary behavior of the East African monsoon and the importance of the Congo Air Boundary. <i>Quaternary Science Reviews</i> , 2011, 30, 798-807.	3.0	194
13	Globally resolved surface temperatures since the Last Glacial Maximum. <i>Nature</i> , 2021, 599, 239-244.	27.8	193
14	Late-twentieth-century warming in Lake Tanganyika unprecedented since AD 500. <i>Nature Geoscience</i> , 2010, 3, 422-425.	12.9	188
15	Past and future rainfall in the Horn of Africa. <i>Science Advances</i> , 2015, 1, e1500682.	10.3	175
16	The effect of sea level on glacial Indo-Pacific climate. <i>Nature Geoscience</i> , 2013, 6, 485-491.	12.9	151
17	BAYSPLINE: A New Calibration for the Alkenone Paleothermometer. <i>Paleoceanography and Paleoclimatology</i> , 2018, 33, 281-301.	2.9	148
18	Core and intact polar glycerol dialkyl glycerol tetraethers (GDGTs) in Sand Pond, Warwick, Rhode Island (USA): Insights into the origin of lacustrine GDGTs. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 77, 561-581.	3.9	140

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19	A TEX86 surface sediment database and extended Bayesian calibration. <i>Scientific Data</i> , 2015, 2, 150029.	5.3	134
20	The DeepMIP contribution to PMIP4: methodologies for selection, compilation and analysis of latest Paleocene and early Eocene climate proxy data, incorporating version 0.1 of the DeepMIP database. <i>Geoscientific Model Development</i> , 2019, 12, 3149-3206.	3.6	131
21	Model, proxy and isotopic perspectives on the East African Humid Period. <i>Earth and Planetary Science Letters</i> , 2011, 307, 103-112.	4.4	128
22	A climatic context for the out-of-Africa migration. <i>Geology</i> , 2017, 45, 1023-1026.	4.4	119
23	Simulation of Eocene extreme warmth and high climate sensitivity through cloud feedbacks. <i>Science Advances</i> , 2019, 5, eaax1874.	10.3	116
24	A molecular perspective on Late Quaternary climate and vegetation change in the Lake Tanganyika basin, East Africa. <i>Quaternary Science Reviews</i> , 2010, 29, 787-800.	3.0	112
25	A global database of Holocene paleotemperature records. <i>Scientific Data</i> , 2020, 7, 115.	5.3	112
26	BayMBT: A Bayesian calibration model for branched glycerol dialkyl glycerol tetraethers in soils and peats. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 268, 142-159.	3.9	110
27	Coordinated hydrological regimes in the Indo-Pacific region during the past two millennia. <i>Paleoceanography</i> , 2010, 25, .	3.0	107
28	The PMIP4 Last Glacial Maximum experiments: preliminary results and comparison with the PMIP3 simulations. <i>Climate of the Past</i> , 2021, 17, 1065-1089.	3.4	107
29	Comparing proxy and model estimates of hydroclimate variability and change over the Common Era. <i>Climate of the Past</i> , 2017, 13, 1851-1900.	3.4	93
30	The DeepMIP contribution to PMIP4: experimental design for model simulations of the EECO, PETM, and pre-PETM (version 1.0). <i>Geoscientific Model Development</i> , 2017, 10, 889-901.	3.6	90
31	Indonesian vegetation response to changes in rainfall seasonality over the past 25,000 years. <i>Nature Geoscience</i> , 2014, 7, 513-517.	12.9	80
32	Deglacial Indian monsoon failure and North Atlantic stadials linked by Indian Ocean surface cooling. <i>Nature Geoscience</i> , 2016, 9, 46-50.	12.9	79
33	The climate response of the Indo-Pacific warm pool to glacial sea level. <i>Paleoceanography</i> , 2016, 31, 866-894.	3.0	76
34	Glacial changes in tropical climate amplified by the Indian Ocean. <i>Science Advances</i> , 2018, 4, eaat9658.	10.3	74
35	A global Bayesian temperature calibration for lacustrine brGDGTs. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 305, 87-105.	3.9	74
36	DeepMIP: model intercomparison of early Eocene climatic optimum (EECO) large-scale climate features and comparison with proxy data. <i>Climate of the Past</i> , 2021, 17, 203-227.	3.4	71

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37	Global mean surface temperature and climate sensitivity of the early Eocene Climatic Optimum (EECO), Paleocene–Eocene Thermal Maximum (PETM), and latest Paleocene. <i>Climate of the Past</i> , 2020, 16, 1953-1968.	3.4	71
38	Pliocene Warmth Consistent With Greenhouse Gas Forcing. <i>Geophysical Research Letters</i> , 2019, 46, 9136-9144.	4.0	69
39	Identifying coherent spatiotemporal modes in time-uncertain proxy paleoclimate records. <i>Climate Dynamics</i> , 2013, 41, 1291-1306.	3.8	66
40	Bayesian Calibration of the Mg/Ca Paleothermometer in Planktic Foraminifera. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 2005-2030.	2.9	56
41	Lessons from a high-CO ₂ world: an ocean view from 14 million years ago. <i>Climate of the Past</i> , 2020, 16, 1599-1615.	3.4	52
42	Subdecadally resolved paleoceanography of the Peru margin during the last two millennia. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	51
43	Ice-sheet modulation of deglacial North American monsoon intensification. <i>Nature Geoscience</i> , 2018, 11, 848-852.	12.9	49
44	Abrupt climate change in southeast tropical Africa influenced by Indian monsoon variability and ITCZ migration. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	47
45	Cooling and drying in northeast Africa across the Pliocene. <i>Earth and Planetary Science Letters</i> , 2016, 449, 430-438.	4.4	47
46	Glacial reduction of the North American Monsoon via surface cooling and atmospheric ventilation. <i>Geophysical Research Letters</i> , 2017, 44, 5113-5122.	4.0	36
47	Northern Hemisphere vegetation change drives a Holocene thermal maximum. <i>Science Advances</i> , 2022, 8, eabj6535.	10.3	35
48	Biomarkers reveal abrupt switches in hydroclimate during the last glacial in southern California. <i>Earth and Planetary Science Letters</i> , 2019, 515, 164-172.	4.4	34
49	Assessment of Equilibrium Climate Sensitivity of the Community Earth System Model Version 2 Through Simulation of the Last Glacial Maximum. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091220.	4.0	34
50	GDGT and alkenone flux in the northern Gulf of Mexico: Implications for the TEX ₈₆ and U ^{K'} ₃₇ paleothermometers. <i>Paleoceanography</i> , 2016, 31, 1547-1561.	3.0	33
51	Lacustrine GDGT response to microcosm and mesocosm incubations. <i>Organic Geochemistry</i> , 2019, 127, 12-22.	1.8	32
52	Shelf exposure influence on Indo-Pacific Warm Pool climate for the last 450,000 years. <i>Earth and Planetary Science Letters</i> , 2019, 516, 66-76.	4.4	30
53	Temperature changes across the Paleocene-Eocene Thermal Maximum – a new high-resolution TEX ₈₆ temperature record from the Eastern North Sea Basin. <i>Earth and Planetary Science Letters</i> , 2020, 544, 116388.	4.4	29
54	Eocene temperature gradients. <i>Nature Geoscience</i> , 2017, 10, 538-539.	12.9	28

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55	Miocene C ₄ Grassland Expansion as Recorded by the Indus Fan. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2020PA003856.	2.9	28
56	Global Core Top Calibration of $\delta^{18}O$ in Planktic Foraminifera to Sea Surface Temperature. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1292-1315.	2.9	26
57	Extremes in East African hydroclimate and links to Indo-Pacific variability on interannual to decadal timescales. <i>Climate Dynamics</i> , 2018, 50, 2971-2991.	3.8	24
58	Emergence of an equatorial mode of climate variability in the Indian Ocean. <i>Science Advances</i> , 2020, 6, eaay7684.	10.3	23
59	GDGT Thermometry: Lipid Tools for Reconstructing Paleotemperatures. <i>The Paleontological Society Papers</i> , 2012, 18, 115-132.	0.6	22
60	Changes in northeast African hydrology and vegetation associated with Pliocene–Pleistocene sapropel cycles. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150243.	4.0	22
61	An El Niño Mode in the Glacial Indian Ocean?. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1316-1327.	2.9	22
62	Controlled lacustrine microcosms show a brGDGT response to environmental perturbations. <i>Organic Geochemistry</i> , 2020, 145, 104041.	1.8	22
63	Biomarker Approaches for Reconstructing Terrestrial Environmental Change. <i>Annual Review of Earth and Planetary Sciences</i> , 2022, 50, 369-394.	11.0	22
64	Unraveling Glacial Hydroclimate in the Indo-Pacific Warm Pool: Perspectives From Water Isotopes. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2020PA003985.	2.9	19
65	Comparison of three methods for the methylation of aliphatic and aromatic compounds. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 1633-1640.	1.5	17
66	Late Eocene Record of Hydrology and Temperature From Prydz Bay, East Antarctica. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA004204.	2.9	17
67	Temperature and water depth effects on brGDGT distributions in sub-alpine lakes of mid-latitude North America. <i>Organic Geochemistry</i> , 2021, 152, 104174.	1.8	15
68	Identifying plant wax inputs in lake sediments using machine learning. <i>Organic Geochemistry</i> , 2021, 156, 104222.	1.8	15
69	Glacial–Interglacial Shifts Dominate Tropical Indo-Pacific Hydroclimate During the Late Pleistocene. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093339.	4.0	13
70	An automated method for the determination of the TEX86 and $\delta^{13}C_{org}$ paleotemperature indices. <i>Organic Geochemistry</i> , 2016, 92, 84-91.	1.8	11
71	South Pacific hydrologic and cyclone variability during the last 3000 years. <i>Paleoceanography</i> , 2016, 31, 491-504.	3.0	8
72	Late Quaternary hydroclimate of the Levant: The leaf wax record from the Dead Sea. <i>Quaternary Science Reviews</i> , 2022, 289, 107613.	3.0	7

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73	Lipid Biomarker Record Documents Hydroclimatic Variability of the Mississippi River Basin During the Common Era. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087237.	4.0	6
74	Subseafloor Archaea reflect 139 kyrs of paleodepositional changes in the northern Red Sea. <i>Geobiology</i> , 2021, 19, 162-172.	2.4	6
75	Identifying the drivers of GDGT distributions in alkaline soil profiles within the Serengeti ecosystem. <i>Organic Geochemistry</i> , 2022, 169, 104433.	1.8	5
76	Climatic Drivers of Deglacial SST Variability in the Eastern Pacific. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2021PA004264.	2.9	3
77	Reflections on weather and climate research. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 9-14.	29.7	1
78	Patterns and mechanisms of northeast Pacific temperature response to Pliocene boundary conditions. <i>Paleoceanography and Paleoclimatology</i> , 0, , .	2.9	1
79	Glacial warming in the Eastern Pacific Warm Pool. <i>Geophysical Research Letters</i> , 0, , .	4.0	0