

Pratigya J Polissar

List of Publications by Year in descending order

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72
papers

3,659
citations

147801

31
h-index

133252

59
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74
all docs

74
docs citations

74
times ranked

4456
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Paleohydrology: Interpreting the Hydrogen-Isotopic Composition of Lipid Biomarkers from Photosynthesizing Organisms. <i>Annual Review of Earth and Planetary Sciences</i> , 2012, 40, 221-249.	11.0	748
2	Paleoaltimetry of the Tibetan Plateau from D/H ratios of lipid biomarkers. <i>Earth and Planetary Science Letters</i> , 2009, 287, 64-76.	4.4	221
3	Northward extent of East Asian monsoon covaries with intensity on orbital and millennial timescales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1817-1821.	7.1	192
4	Holocene paleohydrology and glacial history of the central Andes using multiproxy lake sediment studies. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2003, 194, 123-138.	2.3	185
5	A Tibetan lake sediment record of Holocene Indian summer monsoon variability. <i>Earth and Planetary Science Letters</i> , 2014, 399, 92-102.	4.4	162
6	Effects of aridity and vegetation on plant-wax $\delta^{13}C$ in modern lake sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5785-5797.	3.9	158
7	Neogene biomarker record of vegetation change in eastern Africa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6355-6363.	7.1	111
8	Solar modulation of Little Ice Age climate in the tropical Andes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8937-8942.	7.1	93
9	Measurement of $\delta^{13}C$ and $\delta^{15}N$ Isotopic Composition on Nanomolar Quantities of C and N. <i>Analytical Chemistry</i> , 2009, 81, 755-763.	6.5	84
10	Reduced El Niño Southern Oscillation during the Last Glacial Maximum. <i>Science</i> , 2015, 347, 255-258.	12.6	83
11	Monsoon-driven Saharan dust variability over the past 240,000 years. <i>Science Advances</i> , 2019, 5, eaav1887.	10.3	83
12	Uncertainty in paleohydrologic reconstructions from molecular $\delta^{13}C$ values. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 129, 146-156.	3.9	81
13	Synchronous rise of African C4 ecosystems 10 million years ago in the absence of aridification. <i>Nature Geoscience</i> , 2019, 12, 657-660.	12.9	79
14	Multiproxy paleoaltimetry of the Late Oligocene-Pliocene Qiyug Basin, southern Tibet. <i>Numerische Mathematik</i> , 2016, 316, 401-436.	1.4	70
15	Large amplitude solar modulation cycles of ^{10}Be in Antarctica: Implications for atmospheric mixing processes and interpretation of the ice core record. <i>Geophysical Research Letters</i> , 1996, 23, 523-526.	4.0	67
16	Drought variability in the Pacific Northwest from a 6,000-yr lake sediment record. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3870-3875.	7.1	62
17	Biomarkers heat up during earthquakes: New evidence of seismic slip in the rock record. <i>Geology</i> , 2014, 42, 99-102.	4.4	57
18	Upregulation of phytoplankton carbon concentrating mechanisms during low CO ₂ glacial periods and implications for the phytoplankton pCO ₂ proxy. <i>Quaternary Science Reviews</i> , 2019, 208, 1-20.	3.0	55

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19	Differentiating temperate tree species and their organs using lipid biomarkers in leaves, roots and soil. <i>Organic Geochemistry</i> , 2012, 52, 130-141.	1.8	53
20	Last glacial maximum equilibrium-line altitude and paleo-temperature reconstructions for the Cordillera de M�rida, Venezuelan Andes. <i>Quaternary Research</i> , 2007, 67, 115-127.	1.7	52
21	Initial Expansion of C ₄ Vegetation in Australia During the Late Pliocene. <i>Geophysical Research Letters</i> , 2018, 45, 4831-4840.	4.0	52
22	Constraints on the salinity��oxygen isotope relationship in the central tropical Pacific Ocean. <i>Marine Chemistry</i> , 2014, 161, 26-33.	2.3	50
23	Paleocene to Pliocene low-latitude, high-elevation basins of southern Tibet: Implications for tectonic models of India-Asia collision, Cenozoic climate, and geochemical weathering. <i>Bulletin of the Geological Society of America</i> , 2018, 130, 307-330.	3.3	50
24	Glacial�interglacial changes in central tropical Pacific surface seawater property gradients. <i>Paleoceanography</i> , 2015, 30, 423-438.	3.0	45
25	Dampened El Ni�o in the Early and Mid�Holocene Due To Insolation�Forced Warming/Deepening of the Thermocline. <i>Geophysical Research Letters</i> , 2018, 45, 316-326.	4.0	42
26	Extractable organic material in fault zones as a tool to investigate frictional stress. <i>Earth and Planetary Science Letters</i> , 2011, 311, 439-447.	4.4	40
27	A Pleistocene palaeovegetation record from plant wax biomarkers from the Nachukui Formation, West Turkana, Kenya. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150235.	4.0	40
28	The modern and Last Glacial Maximum hydrological cycles of the Eastern Mediterranean and the Levant from a water isotope perspective. <i>Earth and Planetary Science Letters</i> , 2017, 457, 302-312.	4.4	38
29	15,000-yr Pollen Record of Vegetation change in the High Altitude Tropical Andes at Laguna Verde Alta, Venezuela. <i>Quaternary Research</i> , 2005, 64, 308-317.	1.7	32
30	Late Quaternary deglacial history of the M�rida Andes, Venezuela. <i>Journal of Quaternary Science</i> , 2005, 20, 801-812.	2.1	32
31	Late-Holocene Indian summer monsoon variability revealed from a 3300-year-long lake sediment record from Nir�pa Co, southeastern Tibet. <i>Holocene</i> , 2017, 27, 541-552.	1.7	32
32	Synchronous interhemispheric Holocene climate trends in the tropical Andes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14551-14556.	7.1	31
33	Using the sunspot cycle to date ice cores. <i>Geophysical Research Letters</i> , 1998, 25, 163-166.	4.0	26
34	Sediment provenance and controls on slip propagation: Lessons learned from the 2011 Tohoku and other great earthquakes of the subducting northwest Pacific plate. , 2015, 11, 533-541.		26
35	Sedentism and plant cultivation in northeast China emerged during affluent conditions. <i>PLoS ONE</i> , 2019, 14, e0218751.	2.5	26
36	Organic thermal maturity as a proxy for frictional fault heating: Experimental constraints on methylphenanthrene kinetics at earthquake timescales. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 151, 103-116.	3.9	25

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37	Holocene hydrologic balance of tropical South America from oxygen isotopes of lake sediment opal, Venezuelan Andes. <i>Earth and Planetary Science Letters</i> , 2006, 242, 375-389.	4.4	24
38	Multiple major faults at the Japan Trench: Chemostratigraphy of the plate boundary at IODP Exp. 343: JFAST. <i>Earth and Planetary Science Letters</i> , 2015, 423, 57-66.	4.4	24
39	Sliding rocks at the Racetrack, Death Valley: What makes them move?. <i>Geology</i> , 1995, 23, 819.	4.4	22
40	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
41	Proglacial lake sediment records reveal Holocene climate changes in the Venezuelan Andes. <i>Quaternary Science Reviews</i> , 2014, 89, 44-55.	3.0	21
42	Dynamic carbonate sedimentation on the Northern Line Islands Ridge, Palmyra Basin. <i>Marine Geology</i> , 2016, 379, 194-207.	2.1	18
43	Picomolar-scale compound-specific isotope analyses. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 730-738.	1.5	18
44	Midlatitude Temperature Variations in the Oligocene to Early Miocene. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1328-1343.	2.9	17
45	Earthquake slip surfaces identified by biomarker thermal maturity within the 2011 Tohoku-Oki earthquake fault zone. <i>Nature Communications</i> , 2020, 11, 533.	12.8	17
46	Reaction kinetics of alkenone and <i>n</i> -alkane thermal alteration at seismic timescales. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 204-219.	2.5	16
47	Biomarker thermal maturity experiments at earthquake slip rates. <i>Earth and Planetary Science Letters</i> , 2018, 502, 253-261.	4.4	15
48	Ecological dynamic equilibrium in an early Miocene (21.73 Ma) forest, Ethiopia. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020, 539, 109425.	2.3	14
49	Late Miocene C ₄ Grassland Fire Feedbacks on the Indian Subcontinent. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA004106.	2.9	14
50	Hydrologic Changes Drove the Late Miocene Expansion of C ₄ Grasslands on the Northern Indian Subcontinent. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA004108.	2.9	14
51	Paleoclimate support for a persistent dry island effect in the Colombian Andes during the last 4700 years. <i>Holocene</i> , 2018, 28, 217-228.	1.7	13
52	Leaf Wax δD and $\delta^{13}C$ in Soils Record Hydrological and Environmental Information Across a Climatic Gradient in Israel. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 2898-2916.	3.0	11
53	Hot on the trail: Coseismic heating on a localized structure along the Muddy Mountain fault, Nevada. <i>Journal of Structural Geology</i> , 2019, 120, 67-79.	2.3	10
54	Modulation of late Pleistocene ENSO strength by the tropical Pacific thermocline. <i>Nature Communications</i> , 2020, 11, 5377.	12.8	10

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55	Pleistocene drivers of Northwest African hydroclimate and vegetation. <i>Nature Communications</i> , 2022, 13, .	12.8	10
56	Biomarker Thermal Maturity Reveals Localized Temperature Rise From Paleoseismic Slip Along the Punchbowl Fault, CA, USA. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3201-3215.	2.5	9
57	Carbon Isotope Fractionation in Noelaerhabdaceae Algae in Culture and a Critical Evaluation of the Alkenone Paleobarometer. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009657.	2.5	7
58	Reply to Liu et al.: East Asian summer monsoon rainfall dominates Lake Dali lake area changes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2989-E2990.	7.1	6
59	Soil Carbon Loss and Weak Fire Feedbacks During Pliocene C ₄ Grassland Expansion in Australia. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090964.	4.0	6
60	Evidence of Seismic Slip on a Large Splay Fault in the Hikurangi Subduction Zone. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009638.	2.5	6
61	Carbon isotopes in aquatic plants, Long Valley Caldera, California as records of past hydrothermal and magmatic activity. <i>Geophysical Research Letters</i> , 1998, 25, 2853-2856.	4.0	5
62	Pliocene Paleoenvironments in the Meade Basin, Southwest Kansas, U.S.A.. <i>Journal of Sedimentary Research</i> , 2019, 89, 416-439.	1.6	5
63	A Multi-proxy Approach Using Zircon (U ⁴⁺)/He Thermochronometry and Biomarker Thermal Maturity to Robustly Capture Earthquake Temperature Rise Along the Punchbowl Fault, California. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	2.5	4
64	Reply: Late Quaternary deglacial history of the Mérida Andes, Venezuela: response to comment. <i>Journal of Quaternary Science</i> , 2007, 22, 823-825.	2.1	3
65	Reply to: Multiple drivers of Miocene C ₄ ecosystem expansions. <i>Nature Geoscience</i> , 2020, 13, 465-467.	12.9	3
66	Controls on Alkenone Carbon Isotope Fractionation in the Modern Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, .	2.5	3
67	History of earthquakes along the creeping section of the San Andreas fault, California, USA. <i>Geology</i> , 2022, 50, 516-521.	4.4	3
68	Biotic and Abiotic Forcing During the Transition to Modern Grassland Ecosystems: Evolutionary and Ecological Responses of Small Mammal Communities Over the Last 5 Million Years. <i>The Paleontological Society Papers</i> , 2015, 21, 197-218.	0.6	2
69	Relationship between individual chamber and whole shell Mg/Ca ratios in <i>Trilobatus sacculifer</i> and implications for individual foraminifera palaeoceanographic reconstructions. <i>Scientific Reports</i> , 2021, 11, 463.	3.3	2
70	Characterizing late Quaternary lake-level variability in Lago de Tota, Colombian Andes, with CHIRP seismic stratigraphy. <i>Journal of Paleolimnology</i> , 2019, 62, 319-335.	1.6	1
71	Pairing plant-wax H and C isotopes with lake-area δ ¹⁸ O a method for evaluating the local amount effect in northern China during the late Quaternary. <i>Organic Geochemistry</i> , 2022, , 104403.	1.8	1
72	Sliding rocks at the Racetrack, Death Valley: What makes them move?: Comment and Reply. <i>Geology</i> , 1996, 24, 766.	4.4	0