

# Francis E Mayle

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

3,703  
citations

159585

30  
h-index

133252

59  
g-index

60  
all docs

60  
docs citations

60  
times ranked

3460  
citing authors

#	ARTICLE	IF	CITATIONS
1	Changes in fire regimes since the Last Glacial Maximum: an assessment based on a global synthesis and analysis of charcoal data. <i>Climate Dynamics</i> , 2008, 30, 887-907.	3.8	590
2	Millennial-Scale Dynamics of Southern Amazonian Rain Forests. <i>Science</i> , 2000, 290, 2291-2294.	12.6	439
3	Responses of Amazonian ecosystems to climatic and atmospheric carbon dioxide changes since the last glacial maximum. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2004, 359, 499-514.	4.0	206
4	Fifty-thousand-year vegetation and climate history of Noel Kempff Mercado National Park, Bolivian Amazon. <i>Quaternary Research</i> , 2004, 61, 215-230.	1.7	195
5	Impact of a drier Early-Mid-Holocene climate upon Amazonian forests. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008, 363, 1829-1838.	4.0	165
6	Differentiation between Neotropical rainforest, dry forest, and savannah ecosystems by their modern pollen spectra and implications for the fossil pollen record. <i>Review of Palaeobotany and Palynology</i> , 2009, 153, 70-85.	1.5	142
7	Long-term forest-savannah dynamics in the Bolivian Amazon: implications for conservation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 291-307.	4.0	134
8	Impact of pre-Columbian geoglyph-builders on Amazonian forests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1868-1873.	7.1	133
9	Assessment of the Neotropical dry forest refugia hypothesis in the light of palaeoecological data and vegetation model simulations. <i>Journal of Quaternary Science</i> , 2004, 19, 713-720.	2.1	118
10	A 45kyr palaeoclimate record from the lowland interior of tropical South America. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2011, 307, 177-192.	2.3	117
11	Fire-free land use in pre-1492 Amazonian savannas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6473-6478.	7.1	99
12	Environmental impact of geometric earthwork construction in pre-Columbian Amazonia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10497-10502.	7.1	98
13	Differentiation of neotropical ecosystems by modern soil phytolith assemblages and its implications for palaeoenvironmental and archaeological reconstructions. <i>Review of Palaeobotany and Palynology</i> , 2013, 193, 15-37.	1.5	76
14	Stomatal evidence for a decline in atmospheric CO <sub>2</sub> concentration during the Younger Dryas stadial: a comparison with Antarctic ice core records. <i>Journal of Quaternary Science</i> , 2002, 17, 21-29.	2.1	63
15	Modern Pollen-Rain Characteristics of Tall Terra Firme Moist Evergreen Forest, Southern Amazonia. <i>Quaternary Research</i> , 2005, 64, 284-297.	1.7	62
16	Integrated palaeoecology and archaeology – a powerful approach for understanding pre-Columbian Amazonia. <i>Journal of Archaeological Science</i> , 2014, 51, 54-64.	2.4	61
17	Pre-Columbian raised-field agriculture and land use in the Bolivian Amazon. <i>Holocene</i> , 2014, 24, 231-241.	1.7	54
18	Palynological differentiation between genera of the Moraceae family and implications for Amazonian palaeoecology. <i>Review of Palaeobotany and Palynology</i> , 2008, 149, 187-201.	1.5	51

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19	The Late Devensian Lateglacial palaeoenvironmental record from Whitrig Bog, SE Scotland. 2. Chironomidae (Insecta: Diptera). <i>Boreas</i> , 1997, 26, 297-308.	2.4	47
20	Mapping past human land use using archaeological data: A new classification for global land use synthesis and data harmonization. <i>PLoS ONE</i> , 2021, 16, e0246662.	2.5	47
21	Climate change and cultural resilience in late pre-Columbian Amazonia. <i>Nature Ecology and Evolution</i> , 2019, 3, 1007-1017.	7.8	46
22	Pollen-based differentiation of Amazonian rainforest communities and implications for lowland palaeoecology in tropical South America. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2010, 295, 1-18.	2.3	45
23	Pre-Columbian landscape impact and agriculture in the Monumental Mound region of the Llanos de Moxos, lowland Bolivia. <i>Quaternary Research</i> , 2013, 80, 207-217.	1.7	45
24	Fire, climate and vegetation linkages in the Bolivian Chiquitano seasonally dry tropical forest. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150165.	4.0	43
25	Pre-Columbian land use in the ring-ditch region of the Bolivian Amazon. <i>Holocene</i> , 2015, 25, 1285-1300.	1.7	42
26	<i>Pediastrum</i> species as potential indicators of lake-level change in tropical South America. <i>Journal of Paleolimnology</i> , 2012, 47, 601-615.	1.6	40
27	Late Quaternary changes in Amazonian ecosystems and their implications for global carbon cycling. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2004, 214, 11-25.	2.3	39
28	Impact of mid- to late Holocene precipitation changes on vegetation across lowland tropical South America: a paleo-data synthesis. <i>Quaternary Research</i> , 2018, 89, 134-155.	1.7	36
29	Characterisation of Bolivian savanna ecosystems by their modern pollen rain and implications for fossil pollen records. <i>Review of Palaeobotany and Palynology</i> , 2011, 164, 223-237.	1.5	34
30	Contrasting effects of climate and CO <sub>2</sub> on Amazonian ecosystems since the last glacial maximum. <i>Global Change Biology</i> , 2006, 12, 1977-1984.	9.5	33
31	Pollen-vegetation richness and diversity relationships in the tropics. <i>Vegetation History and Archaeobotany</i> , 2018, 27, 411-418.	2.1	31
32	Widespread reforestation before European influence on Amazonia. <i>Science</i> , 2021, 372, 484-487.	12.6	28
33	The Late Devensian Lateglacial palaeoenvironmental record from Whitrig Bog, SE Scotland. 1. Lithostratigraphy, geochemistry and palaeobotany. <i>Boreas</i> , 1997, 26, 279-295.	2.4	26
34	Reassessing climate and pre-Columbian drivers of paleofire activity in the Bolivian Amazon. <i>Quaternary International</i> , 2018, 488, 81-94.	1.5	26
35	Cold spot microrefugia hold the key to survival for Brazil's Critically Endangered <i>Araucaria</i> tree. <i>Global Change Biology</i> , 2019, 25, 4339-4351.	9.5	26
36	The Impacts of the Middle Holocene High Sea-Level Stand and Climatic Changes on Mangroves of the Jucuruçu River, Southern Bahia – Northeastern Brazil. <i>Radiocarbon</i> , 2017, 59, 215-230.	1.8	23

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37	Hydrology and climatology at Laguna La Gaiba, lowland Bolivia: complex responses to climatic forcings over the last 25 000 years. <i>Journal of Quaternary Science</i> , 2014, 29, 289-300.	2.1	22
38	Effects of past climate variability on fire and vegetation in the cerr�do savanna of the Huanchaca Mesetta, NE Bolivia. <i>Climate of the Past</i> , 2015, 11, 835-853.	3.4	21
39	Historical ecology, human niche construction and landscape in pre-Columbian Amazonia: A case study of the geoglyph builders of Acre, Brazil. <i>Journal of Anthropological Archaeology</i> , 2018, 50, 128-139.	1.6	21
40	Reply to Piperno et al.: It is too soon to argue for localized, short-term human impacts in interfluvial Amazonia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4120-E4121.	7.1	19
41	Holocene land cover change in south-western Amazonia inferred from paleoflood archives. <i>Global and Planetary Change</i> , 2019, 174, 105-114.	3.5	19
42	Sensitivity of Bolivian seasonally-dry tropical forest to precipitation and temperature changes over glacial–interglacial timescales. <i>Vegetation History and Archaeobotany</i> , 2014, 23, 1-14.	2.1	16
43	Evidence confirms an anthropic origin of Amazonian Dark Earths. <i>Nature Communications</i> , 2022, 13, .	12.8	14
44	Constraining pollen-based estimates of forest cover in the Amazon: A simulation approach. <i>Holocene</i> , 2019, 29, 262-270.	1.7	13
45	Floristic change in Brazil's southern Atlantic Forest biodiversity hotspot: From the Last Glacial Maximum to the late 21st Century. <i>Quaternary Science Reviews</i> , 2021, 264, 107005.	3.0	11
46	Understanding the Chronology and Occupation Dynamics of Oversized Pit Houses in the Southern Brazilian Highlands. <i>PLoS ONE</i> , 2016, 11, e0158127.	2.5	11
47	Pre-Columbian ring ditch construction and land use on a “chocolate forest island” in the Bolivian Amazon. <i>Journal of Quaternary Science</i> , 2016, 31, 337-347.	2.1	10
48	Ecosystem turnover in palaeoecological records: The sensitivity of pollen and phytolith proxies to detecting vegetation change in southwestern Amazonia. <i>Holocene</i> , 2019, 29, 1720-1730.	1.7	10
49	Modelling the distribution of Amazonian tree species in response to long-term climate change during the Mid-Late Holocene. <i>Journal of Biogeography</i> , 2020, 47, 1530-1540.	3.0	10
50	Cold and humid Atlantic Rainforest during the last glacial maximum, northern Esp�rito Santo state, southeastern Brazil. <i>Quaternary Science Reviews</i> , 2020, 244, 106489.	3.0	8
51	MOIETIES AND MORTUARY MOUNDS: DUALISM AT A MOUND AND ENCLOSURE COMPLEX IN THE SOUTHERN BRAZILIAN HIGHLANDS. <i>Latin American Antiquity</i> , 2017, 28, 232-251.	0.6	7
52	Long-term impacts of mid-Holocene drier climatic conditions on Bolivian tropical dry forests. <i>Quaternary Research</i> , 2020, 93, 204-224.	1.7	6
53	Human Contribution to Amazonian Plant Diversity: Legacy of Pre-Columbian Land Use in Modern Plant Communities. <i>Fascinating Life Sciences</i> , 2020, , 495-520.	0.9	6
54	A quantitative study of modern pollen–vegetation relationships in southern Brazil's Araucaria forest. <i>Review of Palaeobotany and Palynology</i> , 2019, 265, 27-40.	1.5	5

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55	Relating pollen representation to an evolving Amazonian landscape between the last glacial maximum and Late Holocene. <i>Quaternary Research</i> , 2021, 99, 63-79.	1.7	4
56	Response of Amazonian forests to mid-Holocene drought: A model-data comparison. <i>Global Change Biology</i> , 2022, 28, 201-226.	9.5	4
57	Insights into past land-use and vegetation change in the Llanos de Moxos (Bolivia) using fungal non-pollen palynomorphs. <i>Journal of Archaeological Science</i> , 2021, 130, 105382.	2.4	3
58	Stomatal evidence for a decline in atmospheric CO <sub>2</sub> concentration during the Younger Dryas stadial: a comparison with Antarctic ice core records. <i>Journal of Quaternary Science</i> , 2002, 17, 21.	2.1	2
59	Reply to Silva: Dynamic human-vegetation-climate interactions at forest ecotones during the late-Holocene in lowland South America. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3833-E3833.	7.1	1
60	Introduction: Late Quaternary ecosystem dynamics and carbon cycling in the tropics. <i>Journal of Quaternary Science</i> , 2004, 19, 623-624.	2.1	0