Paul N. Pearson

List of Publications by Year
in descending order

127 papers	11,821 citations	34105 52 h-index	30087 103 g-index
144 all docs	144 docs citations	144 times ranked	8188 citing authors

#	Article	IF	Citations
1	Atmospheric carbon dioxide concentrations over the past 60 million years. Nature, 2000, 406, 695-699.	27.8	1,548
2	Review and revision of Cenozoic tropical planktonic foraminiferal biostratigraphy and calibration to the geomagnetic polarity and astronomical time scale. Earth-Science Reviews, 2011, 104, 111-142.	9.1	747
3	Warm tropical sea surface temperatures in the Late Cretaceous and Eocene epochs. Nature, 2001, 413, 481-487.	27.8	601
4	Are we now living in the Anthropocene. GSA Today, 2008, 18, 4.	2.0	480
5	A REVISED TROPICAL TO SUBTROPICAL PALEOGENE PLANKTONIC FORAMINIFERAL ZONATION. Journal of Foraminiferal Research, 2005, 35, 279-298.	0.5	479
6	Atmospheric carbon dioxide through the Eoceneâ€"Oligocene climate transition. Nature, 2009, 461, 1110-1113.	27.8	365
7	Stable warm tropical climate through the Eocene Epoch. Geology, 2007, 35, 211.	4.4	335
8	Changing atmospheric CO2 concentration was the primary driver of early Cenozoic climate. Nature, 2016, 533, 380-384.	27.8	327
9	Cooling and ice growth across the Eocene-Oligocene transition. Geology, 2008, 36, 251.	4.4	293
10	Diversity-dependence brings molecular phylogenies closer to agreement with the fossil record. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 1300-1309.	2.6	281
11	Interplay Between Changing Climate and Speciesâ€™ Ecology Drives Macroevolutionary Dynamics. Science, 2011, 332, 349-351.	12.6	277
12	Very large release of mostly volcanic carbon during the Palaeoceneâ€"Eocene Thermal Maximum. Nature, 2017, 548, 573-577.	27.8	277
13	Microstructural and geochemical perspectives on planktic foraminiferal preservation: â€œGlassyâ€• versus â€œFrostyâ€• Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	2.5	213
14	Early Paleogene temperature history of the Southwest Pacific Ocean: Reconciling proxies and models. Earth and Planetary Science Letters, 2012, 349-350, 53-66.	4.4	194
15	A phylogeny of Cenozoic macroperforate planktonic foraminifera from fossil data. Biological Reviews, 2011, 86, 900-927.	10.4	191
16	Middle Eocene Seawater pH and Atmospheric Carbon Dioxide Concentrations. Science, 1999, 284, 1824-1826.	12.6	178
17	The Miocene: The Future of the Past. Paleoceanography and Paleoclimatology, 2021, 36, e2020PA004037.	2.9	166
18	Stratigraphy of the Anthropocene. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 1036-1055.	3.4	156

#	Article	IF	Citations
19	Boron and calcium isotope composition in Neoproterozoic carbonate rocks from Namibia: evidence for extreme environmental change. Earth and Planetary Science Letters, 2005, 231, 73-86.	4.4	152
20	Eocene greenhouse climate revealed by coupled clumped isotope-Mg/Ca thermometry. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1174-1179.	7.1	146
21	A 23,000-Year Record of Surface Water pH and PCO2 in the Western Equatorial Pacific Ocean. Science, 2003, 300, 480-482.	12.6	140
22	Extinction and environmental change across the Eocene-Oligocene boundary in Tanzania. Geology, 2008, 36, 179.	4.4	140
23	Reconstructing Past Ocean pH-Depth Profiles. , 1998, 282, 1468-1471.		134
24	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. Geoscientific Model Development, 2019, 12, 3149-3206.	3.6	131
25	Descent toward the Icehouse: Eocene sea surface cooling inferred from GDGT distributions. Paleoceanography, 2015, 30, 1000-1020.	3.0	129
26	Speciation in the fossil record. Trends in Ecology and Evolution, 2001, 16, 405-411.	8.7	128
27	Stable isotope paleoecology of middle Eocene planktonic foraminifera and multi-species isotope stratigraphy, DSDP Site 523, South Atlantic. Journal of Foraminiferal Research, 1993, 23, 123-140.	0.5	116
28	Oxygen Isotopes in Foraminifera: Overview and Historical Review. The Paleontological Society Papers, 2012, 18, 1-38.	0.6	112
29	Planktonic foraminifera stable isotopes and water column structure: Disentangling ecological signals. Marine Micropaleontology, 2013, 101, 127-145.	1.2	111
30	Fossil and Genetic Evidence for the Polyphyletic Nature of the Planktonic Foraminifera "Globigerinoides", and Description of the New Genus Trilobatus. PLoS ONE, 2015, 10, e0128108.	2.5	103
31	Calcium isotope (Î´44/40Ca) variations of Neogene planktonic foraminifera. Paleoceanography, 2005, 20, n/a-n/a.	3.0	94
32	A core top assessment of proxies for the ocean carbonate system in surfaceâ€dwelling foraminifers. Paleoceanography, 2007, 22, .	3.0	93
33	Large terrestrial and marine carbon and hydrogen isotope excursions in a new Paleocene/Eocene boundary section from Tanzania. Earth and Planetary Science Letters, 2008, 275, 17-25.	4.4	93
34	Well preserved Palaeogene and Cretaceous biomarkers from the Kilwa area, Tanzania. Organic Geochemistry, 2006, 37, 539-557.	1.8	92
35	The DeepMIP contribution to PMIP4: experimental design for model simulations of the EECO, PETM, and pre-PETM (version 1.0). Geoscientific Model Development, 2017, 10, 889-901.	3.6	90
36	The Eoceneâ€"Oligocene transition: a review of marine and terrestrial proxy data, models and modelâ€"data comparisons. Climate of the Past, 2021, 17, 269-315.	3.4	90

#	Article	IF	Citations
37	Assessing the impact of diagenesis on Î´11B, Î´13C, Î´18O, Sr/Ca and B/Ca values in fossil planktic foraminiferal calcite. Geochimica Et Cosmochimica Acta, 2015, 166, 189-209.	3.9	88
38	Planktonic foraminiferal turnover, diversity fluctuations and geochemical signals across the Eocene/Oligocene boundary in Tanzania. Marine Micropaleontology, 2008, 68, 244-255.	1.2	87
39	Stratigraphy and sedimentology of the Upper Cretaceous to Paleogene Kilwa Group, southern coastal Tanzania. Journal of African Earth Sciences, 2006, 45, 431-466.	2.0	77
40	Calcareous plankton evolution and the Paleocene/Eocene thermal maximum event: New evidence from Tanzania. Marine Micropaleontology, 2009, 71, 60-70.	1.2	74
41	Changes in the hydrological cycle in tropical East Africa during the Paleoceneâ€"Eocene Thermal Maximum. Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 329-330, 10-21.	2.3	74
42	Major shifts in calcareous phytoplankton assemblages through the Eoceneâ€Oligocene transition of Tanzania and their implications for lowâ€latitude primary production. Paleoceanography, 2008, 23, .	3.0	71
43	Paleogene and Cretaceous sediment cores from the Kilwa and Lindi areas of coastal Tanzania: Tanzania Drilling Project Sites 1â€"5. Journal of African Earth Sciences, 2004, 39, 25-62.	2.0	65
44	Stable isotopic evidence for the sympatric divergence of Globigerinoides trilobus and Orbulina universa (planktonic foraminifera). Journal of the Geological Society, 1997, 154, 295-302.	2.1	62
45	Extreme warming of tropical waters during the Paleoceneâ€"Eocene Thermal Maximum. Geology, 2014, 42, 739-742.	4.4	62
46	Temperature dependency of metabolic rates in the upper ocean: A positive feedback to global climate change?. Global and Planetary Change, 2018, 170, 201-212.	3.5	62
47	Iterative evolution of digitate planktonic foraminifera. Paleobiology, 2007, 33, 495-516.	2.0	61
48	Temperature-dependent remineralization and carbon cycling in the warm Eocene oceans. Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 413, 158-166.	2.3	61
49	A Paleogene calcareous microfossil Konservat-Lagerstatte from the Kilwa Group of coastal Tanzania. Bulletin of the Geological Society of America, 2008, 120, 3-12.	3.3	60
50	Middle Eocene climate cyclicity in the southern Pacific: Implications for global ice volume. Geology, 2008, 36, 651.	4.4	59
51	Warm ocean processes and carbon cycling in the Eocene. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20130099.	3.4	58
52	Partial collapse of the marine carbon pump after the Cretaceous-Paleogene boundary. Geology, 2016, 44, 287-290.	4.4	58
53	Structural evolution of southern coastal Tanzania since the Jurassic. Journal of African Earth Sciences, 2007, 48, 273-297.	2.0	57
54	Proxy evidence for state-dependence of climate sensitivity in the Eocene greenhouse. Nature Communications, 2020, 11, 4436.	12.8	57

#	Article	IF	Citations
55	Evolutionary ecology of Early Paleocene planktonic foraminifera: size, depth habitat and symbiosis. Paleobiology, 2012, 38, 374-390.	2.0	52
56	Algorithmic approaches to aid species' delimitation in multidimensional morphospace. BMC Evolutionary Biology, 2010, 10, 175.	3.2	50
57	TAXONOMY AND STABLE ISOTOPE PALEOECOLOGY OF WELL-PRESERVED PLANKTONIC FORAMINIFERA FROM THE UPPERMOST OLIGOCENE OF TRINIDAD. Journal of Foraminiferal Research, 2009, 39, 191-217.	0.5	47
58	Survivorship Analysis of Fossil Taxa When Real-Time Extinction Rates Vary: The Paleogene Planktonic Foraminifera. Paleobiology, 1992, 18, 115-131.	2.0	46
59	Hantkeninid depth adaptation: An evolving life strategy in a changing ocean. Geology, 2000, 28, 87.	4.4	46
60	Miocene tropical Indian Ocean temperatures: evidence from three exceptionally preserved foraminiferal assemblages from Tanzania. Journal of African Earth Sciences, 2004, 40, 173-189.	2.0	46
61	Revisiting the Middle Eocene Climatic Optimum â€œCarbon Cycle Conundrumâ€•With New Estimates of Atmospheric pCO₂ From Boron Isotopes. Paleoceanography and Paleoclimatology, 2020, 35, e2019PA003713.	2.9	45
62	Early Paleogene evolution of terrestrial climate in the SW Pacific, Southern New Zealand. Geochemistry, Geophysics, Geosystems, 2013, 14, 5413-5429.	2.5	43
63	A Lineage Phylogeny for the Paleogene Planktonic Foraminifera. Micropaleontology, 1993, 39, 193.	1.0	41
64	Public understanding in Great Britain of oceanÂacidification. Nature Climate Change, 2016, 6, 763-767.	18.8	41
65	Temperature controls carbon cycling and biological evolution in the ocean twilight zone. Science, 2021, 371, 1148-1152.	12.6	41
66	Palaeoecology of late middle Eocene planktic foraminifera and evolutionary implications. Marine Micropaleontology, 2006, 60, 1-16.	1.2	40
67	Biological and ecological insights into Ca isotopes in planktic foraminifers as a palaeotemperature proxy. Earth and Planetary Science Letters, 2008, 271, 292-302.	4.4	39
68	The meaning of birth and death (in macroevolutionary birthâ€“death models). Biology Letters, 2012, 8, 139-142.	2.3	39
69	Evolution and speciation in the Eocene planktonic foraminifer<i>Turborotalia</i>. Paleobiology, 2014, 40, 130-143.	2.0	37
70	Stable Isotopes and the Study of Evolution in Planktonic Foraminifera. The Paleontological Society Papers, 1998, 4, 138-178.	0.6	34
71	The impact of Cenozoic cooling on assemblage diversity in planktonic foraminifera. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150224.	4.0	34
72	Foraminifer test preservation and diagenesis: comparison of high latitude Eocene sites. Geological Society Special Publication, 2008, 303, 59-72.	1.3	33

#	Article	IF	Citations
73	Extinction of larger benthic foraminifera at the Eocene/Oligocene boundary. Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 311, 281-296.	2.3	31
74	Further Paleogene and Cretaceous sediment cores from the Kilwa area of coastal Tanzania: Tanzania Drilling Project Sites 6â€“10. Journal of African Earth Sciences, 2006, 45, 279-317.	2.0	30
75	Sampling bias and the fossil record of planktonic foraminifera on land and in the deep sea. Paleobiology, 2012, 38, 569-584.	2.0	27
76	Exceptionally well preserved upper Eocene to lower Oligocene calcareous nannofossils (Prymnesiophyceae) from the Pande Formation (Kilwa Group), Tanzania. Journal of Systematic Palaeontology, 2009, 7, 359-411.	1.5	26
77	Environmental Predictors of Diversity in Recent Planktonic Foraminifera as Recorded in Marine Sediments. PLoS ONE, 2016, 11, e0165522.	2.5	26
78	Origin of the Eocene planktonic foraminifer <i><scp>H</scp>antkenina</i> by gradual evolution. Palaeontology, 2014, 57, 243-267.	2.2	25
79	The imbalance of paleontological trees. Paleobiology, 2001, 27, 188-204.	2.0	23
80	Calibration of temperature-dependent ocean microbial processes in the cGENIE.muffin (v0.9.13) Earth system model. Geoscientific Model Development, 2021, 14, 125-149.	3.6	22
81	Investigating ageâ€dependency of species extinction rates using dynamic survivorship analysis. Historical Biology, 1995, 10, 119-136.	1.4	20
82	Cladogenetic, Extinction and Survivorship Patterns from a Lineage Phylogeny: The Paleogene Planktonic Foraminifera. Micropaleontology, 1996, 42, 179.	1.0	20
83	Successive extinctions of muricate planktonic foraminifera (Morozovelloides and Acarinina) as a candidate for marking the base Priabonian. Newsletters on Stratigraphy, 2012, 45, 245-262.	1.2	20
84	Walking traces of the giant myriapod Arthropleura from the Strathclyde Group (Lower) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td (Ca	0.1	19
85	Drilling disturbance and constraints on the onset of the Paleoceneâ€“Eocene boundary carbon isotope excursion in New Jersey. Climate of the Past, 2015, 11, 95-104.	3.4	18
86	Temporal patterns in diversification rates. , 2001, , 278-300.		16
87	Integrated stratigraphy of the Priabonian (upper Eocene) Urtsadzor section, Armenia. Newsletters on Stratigraphy, 2017, 50, 269-295.	1.2	16
88	UK public perceptions of Ocean Acidification â€“ The importance of place and environmental identity. Marine Policy, 2018, 97, 287-293.	3.2	16
89	ORIGIN AND MORPHOLOGY OF THE EOCENE PLANKTONIC FORAMINIFER HANTKENINA. Journal of Foraminiferal Research, 2003, 33, 237-261.	0.5	15
90	Palaeoclimatology (Communication arising): Tropical temperatures in greenhouse episodes. Nature, 2002, 419, 898-898.	27.8	14

#	Article	IF	Citations
91	MUTABELLA MIRABILIS GEN. ET SP. NOV., A MIOCENE MICROPERFORATE PLANKTONIC FORAMINIFER WITH AN EXTREME LEVEL OF INTRASPECIFIC VARIABILITY. Journal of Foraminiferal Research, 2001, 31, 120-132.	0.5	13
92	Impact of the East African Rift System on the routing of the deepâ€water drainage network offshore Tanzania, western Indian Ocean. Basin Research, 2020, 32, 789-803.	2.7	13
93	Factors affecting consistency and accuracy in identifying modern macroperforate planktonic foraminifera. Journal of Micropalaeontology, 2018, 37, 431-443.	3.6	13
94	Increased Atmospheric CO ₂ During the Middle Eocene. Science, 2010, 330, 763-764.	12.6	12
95	Layering in the Paleocene/Eocene boundary of the Millville core is drilling disturbance. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1064-E1065.	7.1	12
96	Coiling directions in the planktonic foraminifer Pulleniatina: A complex eco-evolutionary dynamic spanning millions of years. PLoS ONE, 2021, 16, e0249113.	2.5	12
97	New composite bio- and isotope stratigraphies spanning the Middle Eocene Climatic Optimum at tropical ODP Site 865 in the Pacific Ocean. Journal of Micropalaeontology, 2020, 39, 117-138.	3.6	12
98	Apomorphy Distribution Is an Important Aspect of Cladogram Symmetry. Systematic Biology, 1999, 48, 399-406.	5.6	11
99	Identifying anagenesis and cladogenesis in the fossil record. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2946.	7.1	11
100	Effect of diagenetic recrystallization on the strength of planktonic foraminifer tests under compression. Journal of Micropalaeontology, 2015, 34, 59-64.	3.6	11
101	Late Neogene evolution of modern deep-dwelling plankton. Biogeosciences, 2022, 19, 743-762.	3.3	11
102	Stable isotope stratigraphy and larger benthic foraminiferal extinctions in the Melinau Limestone, Sarawak. Journal of Asian Earth Sciences, 2014, 79, 65-71.	2.3	10
103	A new Eocene lineage of reticulate<i>Nummulites</i>(Foraminifera) from Kilwa district, Tanzania; a place for<i>Nummulites ptukhiani</i>?. Journal of Systematic Palaeontology, 2016, 14, 569-579.	1.5	9
104	Future-proofing the Cenozoic macroperforate planktonic foraminifera phylogeny of Aze & others (2011). PLoS ONE, 2018, 13, e0204625.	2.5	9
105	Lowâ€Latitude Calcareous Nannofossil Response in the Indoâ€Pacific Warm Pool Across the Eoceneâ€Oligocene Transition of Java, Indonesia. Paleoceanography and Paleoclimatology, 2019, 34, 1833-1847.	2.9	9
106	Large-scale mass wasting in the western Indian Ocean constrains onset of East African rifting. Nature Communications, 2020, 11, 3456.	12.8	9
107	Proposal for the Global Boundary Stratotype Section and Point (GSSP) for the Priabonian Stage (Eocene) at the Alano section (Italy). Episodes, 2021, 44, 151-173.	1.2	9
108	Coiling directions in some Miocene planktonic Foraminifera. Journal of Micropalaeontology, 2001, 20, 29-30.	3.6	7

#	Article	IF	Citations
109	A large <i>Taenidium</i> burrow from the Upper Carboniferous of Corrie, Isle of Arran, and remarks on the association of <i>Taenidium</i> burrows and <i>Diplichnites</i> trails. Scottish Journal of Geology, 2019, 55, 135-140.	0.1	7
110	Data-constrained assessment of ocean circulation changes since the middle Miocene in an Earth system model. Climate of the Past, 2021, 17, 2223-2254.	3.4	7
111	Examining the case for the use of the Tertiary as a formal period or informal unit. Proceedings of the Geologists Association, 2012, 123, 390-393.	1.1	6
112	Estimating Paleogene atmospheric pCO2using boron isotope analysis of foraminifera. Gff, 2000, 122, 127-128.	1.2	5
113	â€˜Marks of extreme violence': Charles Darwin's geological observations at St Jago (SÃ£o Tiago), Cape Verde islands. Geological Society Special Publication, 2007, 287, 239-253.	1.3	5
114	Charles Darwin on the Origin and Diversity of Igneous Rocks. Earth Sciences History, 1996, 15, 49-67.	0.2	5
115	DISTRIBUTION AND ECOLOGY OF CATAPSYDRAX INDIANUS, A NEW PLANKTONIC FORAMINIFER INDEX SPECIES FOR THE LATE OLIGOCENE-EARLY MIOCENE. Journal of Foraminiferal Research, 2009, 39, 112-119.	0.5	4
116	First bryozoan fauna from the Eoceneâ€“Oligocene transition in Tanzania. Journal of Systematic Palaeontology, 2018, 16, 225-243.	1.5	4
117	A deep-sea agglutinated foraminifer tube constructed with planktonic foraminifer shells of a single species. Journal of Micropalaeontology, 2018, 37, 97-104.	3.6	3
118	Stable warm tropical climate through the Eocene Epoch: COMMENT and REPLY: REPLY. Geology, 2007, 35, e153-e153.	4.4	2
119	The Eoceneâ˘'Oligocene transition in Nanggulan, Java: lithostratigraphy, biostratigraphy and foraminiferal stable isotopes. Journal of the Geological Society, 2021, 178, .	2.1	2
120	Hantkeninid depth adaptation: An evolving life strategy in a changing ocean. Geology, 2000, 28, 87-90.	4.4	2
121	Defining the Base of the Cambrian: The Hicks-Geikie Confrontation of April 1883. Earth Sciences History, 1992, 11, 70-80.	0.2	2
122	Robert Jameson on the Isle of Arran, 1797â€“1799: in search of Hutton's â€˜Theory of the Earthâ€™. Geological Society Special Publication, 2007, 287, 31-47.	1.3	1
123	The glorious fossil record. Nature, 0, , .	27.8	1
124	On the Chemical Purity of Marine Microfossils. Physics Today, 2002, 55, 99-99.	0.3	0
125	Oligocene Planktonic Foraminiferal Biostratigraphy: Current State of the Art and New Calibrations. Springer Geology, 2014, , 149-151.	0.3	0
126	Early Cenozoic tropical climate: report from the Tanzania Onshore Paleogene Integrated Coring (TOPIC) workshop. Scientific Drilling, 0, 18, 13-17.	0.6	0

#	Article	IF	Citations
127	Provenance and identity of a large bronze statue currently in the Metropolitan Museum of Art, New York. Journal of the History of Collections, 2018, 30, 35-48.	0.1	0