

Paul A Wilson

List of Publications by Year in descending order

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79
papers

8,685
citations

53751

45
h-index

66879

78
g-index

81
all docs

81
docs citations

81
times ranked

5752
citing authors

#	ARTICLE	IF	CITATIONS
1	Cenozoic Deep-Sea Temperatures and Global Ice Volumes from Mg/Ca in Benthic Foraminiferal Calcite. <i>Science</i> , 2000, 287, 269-272.	6.0	953
2	An astronomically dated record of Earth's climate and its predictability over the last 66 million years. <i>Science</i> , 2020, 369, 1383-1387.	6.0	791
3	Rapid stepwise onset of Antarctic glaciation and deeper calcite compensation in the Pacific Ocean. <i>Nature</i> , 2005, 433, 53-57.	13.7	597
4	The Heartbeat of the Oligocene Climate System. <i>Science</i> , 2006, 314, 1894-1898.	6.0	530
5	Thresholds for Cenozoic bipolar glaciation. <i>Nature</i> , 2008, 455, 652-656.	13.7	361
6	Warm tropical ocean surface and global anoxia during the mid-Cretaceous period. <i>Nature</i> , 2001, 412, 425-429.	13.7	358
7	A Cenozoic record of the equatorial Pacific carbonate compensation depth. <i>Nature</i> , 2012, 488, 609-614.	13.7	342
8	Tropical warming and intermittent cooling during the Cenomanian/Turonian oceanic anoxic event 2: Sea surface temperature records from the equatorial Atlantic. <i>Paleoceanography</i> , 2007, 22, n/a-n/a.	3.0	241
9	Continental ice in Greenland during the Eocene and Oligocene. <i>Nature</i> , 2007, 446, 176-179.	13.7	217
10	Microstructural and geochemical perspectives on planktic foraminiferal preservation: "Glassy" versus "Frosty". <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	1.0	213
11	Late Eocene to early Miocene ice sheet dynamics and the global carbon cycle. <i>Paleoceanography</i> , 2004, 19, n/a-n/a.	3.0	190
12	On impact and volcanism across the Cretaceous-Paleogene boundary. <i>Science</i> , 2020, 367, 266-272.	6.0	178
13	Interlaboratory comparison study of Mg/Ca and Sr/Ca measurements in planktonic foraminifera for paleoceanographic research. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, n/a-n/a.	1.0	170
14	Interlaboratory comparison study of calibration standards for foraminiferal Mg/Ca thermometry. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	168
15	Causes of ice age intensification across the Mid-Pleistocene Transition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13114-13119.	3.3	166
16	Low-latitude sea-surface temperatures for the mid-Cretaceous and the evolution of planktic foraminifera. <i>Geology</i> , 1998, 26, 823.	2.0	157
17	Pacific Ocean and Cenozoic evolution of climate. <i>Reviews of Geophysics</i> , 2008, 46, .	9.0	151
18	Calibration of the boron isotope proxy in the planktonic foraminifera <i>Globigerinoides ruber</i> for use in palaeo-CO ₂ reconstruction. <i>Earth and Planetary Science Letters</i> , 2013, 364, 111-122.	1.8	149

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19	Stable organic carbon isotope stratigraphy across Oceanic Anoxic Event 2 of Demerara Rise, western tropical Atlantic. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, .	1.0	138
20	An alternative suggestion for the Pliocene onset of major northern hemisphere glaciation based on the geochemical provenance of North Atlantic Ocean ice-rafted debris. <i>Quaternary Science Reviews</i> , 2013, 75, 181-194.	1.4	119
21	Influence of test size, water depth, and ecology on Mg/Ca, Sr/Ca, $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ in nine modern species of planktic foraminifers. <i>Earth and Planetary Science Letters</i> , 2012, 319-320, 133-145.	1.8	110
22	Middle Miocene climate instability associated with high amplitude CO_2 variability. <i>Paleoceanography</i> , 2014, 29, 845-853.	3.0	110
23	Early Oligocene glaciation and productivity in the eastern equatorial Pacific: Insights into global carbon cycling. <i>Paleoceanography</i> , 2011, 26, .	3.0	101
24	No extreme bipolar glaciation during the main Eocene calcite compensation shift. <i>Nature</i> , 2007, 448, 908-911.	13.7	97
25	Neogene ice volume and ocean temperatures: Insights from infaunal foraminiferal Mg/Ca paleothermometry. <i>Paleoceanography</i> , 2015, 30, 1437-1454.	3.0	96
26	Eocene/Oligocene ocean de-acidification linked to Antarctic glaciation by sea-level fall. <i>Nature</i> , 2008, 452, 979-982.	13.7	95
27	Warm saline intermediate waters in the Cretaceous tropical Atlantic Ocean. <i>Nature Geoscience</i> , 2008, 1, 453-457.	5.4	92
28	The Eocene–Oligocene transition: a review of marine and terrestrial proxy data, models and model–data comparisons. <i>Climate of the Past</i> , 2021, 17, 269-315.	1.3	90
29	Testing the Cenozoic multisite composite $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ curves: New monospecific Eocene records from a single locality, Demerara Rise (Ocean Drilling Program Leg 207). <i>Paleoceanography</i> , 2006, 21, n/a-n/a.	3.0	88
30	Significance of Halimeda bioherms to the global carbonate budget based on a geological sediment budget for the Northern Great Barrier Reef, Australia. <i>Coral Reefs</i> , 2007, 26, 177-188.	0.9	86
31	Evolution of the early Antarctic ice ages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3867-3872.	3.3	84
32	Early Maastrichtian carbon cycle perturbation and cooling event: Implications from the South Atlantic Ocean. <i>Paleoceanography</i> , 2009, 24, .	3.0	76
33	Atmospheric CO_2 during the Mid-Piacenzian Warm Period and the M2 glaciation. <i>Scientific Reports</i> , 2020, 10, 11002.	1.6	71
34	Equatorial sea-surface temperatures for the Maastrichtian revealed through remarkable preservation of metastable carbonate. <i>Geology</i> , 1996, 24, 555.	2.0	68
35	Cyclostratigraphy and eccentricity tuning of the early Oligocene through early Miocene (30.1–17.1 Ma). <i>Earth and Planetary Science Letters</i> , 2016, 450, 392-405.	1.8	68
36	Late Albian paleoceanography of the western subtropical North Atlantic. <i>Paleoceanography</i> , 2008, 23, .	3.0	65

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37	Testing planktic foraminiferal shell weight as a surface water [CO ₂] proxy using plankton net samples. <i>Geology</i> , 2010, 38, 103-106.	2.0	63
38	A new boron isotope-pH calibration for <i>Orbulina universa</i> , with implications for understanding and accounting for "vital effects". <i>Earth and Planetary Science Letters</i> , 2016, 454, 282-292.	1.8	57
39	Coccolithophore calcification response to past ocean acidification and climate change. <i>Nature Communications</i> , 2014, 5, 5363.	5.8	56
40	Testing the impact of diagenesis on the $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ of benthic foraminiferal calcite from a sediment burial depth transect in the equatorial Pacific. <i>Paleoceanography</i> , 2013, 28, 468-480.	3.0	55
41	Calcareous nannoplankton response to late Albian oceanic anoxic event 1d in the western North Atlantic. <i>Paleoceanography</i> , 2005, 20, n/a-n/a.	3.0	51
42	Evaluating the utility of $\delta^{13}\text{C}$ / $\delta^{15}\text{N}$ ratios in planktic foraminifera as a proxy for the carbonate system: A case study of <i>Globigerinoides ruber</i> . <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 1052-1069.	1.0	50
43	Incursions of southern-sourced water into the deep North Atlantic during late Pliocene glacial intensification. <i>Nature Geoscience</i> , 2016, 9, 375-379.	5.4	50
44	Flux and provenance of ice-rafted debris in the earliest Pleistocene sub-polar North Atlantic Ocean comparable to the last glacial maximum. <i>Earth and Planetary Science Letters</i> , 2012, 341-344, 222-233.	1.8	49
45	Millennial-scale climate variability in the subpolar North Atlantic Ocean during the late Pliocene. <i>Paleoceanography</i> , 2010, 25, n/a-n/a.	3.0	48
46	The transition on North America from the warm humid Pliocene to the glaciated Quaternary traced by eolian dust deposition at a benchmark North Atlantic Ocean drill site. <i>Quaternary Science Reviews</i> , 2014, 93, 125-141.	1.4	45
47	A record of Neogene seawater $\delta^{18}\text{O}$ reconstructed from paired $\delta^{18}\text{O}$ analyses on benthic and planktic foraminifera. <i>Climate of the Past</i> , 2017, 13, 149-170.	1.3	43
48	Transient temperature asymmetry between hemispheres in the Palaeogene Atlantic Ocean. <i>Nature Geoscience</i> , 2018, 11, 656-660.	5.4	42
49	A low threshold for North Atlantic ice rafting from "low-slung slippery" late Pliocene ice sheets. <i>Paleoceanography</i> , 2010, 25, .	3.0	41
50	Glacial "interglacial productivity changes recorded by alkenones and microfossils in late Pliocene eastern equatorial Pacific and Atlantic upwelling zones. <i>Earth and Planetary Science Letters</i> , 2010, 295, 401-411.	1.8	40
51	Orbital Forcing, Ice Volume, and CO ₂ Across the Oligocene-Miocene Transition. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 316-328.	1.3	38
52	Preservation of benthic foraminifera and reliability of deep-sea temperature records: Importance of sedimentation rates, lithology, and the need to examine test wall structure. <i>Paleoceanography</i> , 2009, 24, .	3.0	29
53	Optimization of an inductively coupled plasma-optical emission spectrometry method for the rapid determination of high-precision Mg/Ca and Sr/Ca in foraminiferal calcite. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, n/a-n/a.	1.0	25
54	Global carbon cycle perturbation across the Eocene-Oligocene climate transition. <i>Paleoceanography</i> , 2016, 31, 311-329.	3.0	25

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55	Influence of the Amazon River on the Nd isotope composition of deep water in the western equatorial Atlantic during the Oligocene–Miocene transition. <i>Earth and Planetary Science Letters</i> , 2016, 454, 132-141.	1.8	24
56	Holocene evolution of the granite based Lizard Island and MacGillivray Reef systems, Northern Great Barrier Reef. <i>Coral Reefs</i> , 2006, 25, 555-565.	0.9	22
57	Evolution of nutricline dynamics in the equatorial Pacific during the late Pliocene. <i>Paleoceanography</i> , 2010, 25, .	3.0	22
58	Late Pliocene to early Pleistocene changes in the North Atlantic Current and suborbital-scale sea-surface temperature variability. <i>Paleoceanography</i> , 2013, 28, 274-282.	3.0	21
59	Response of the Pacific inter-tropical convergence zone to global cooling and initiation of Antarctic glaciation across the Eocene Oligocene Transition. <i>Scientific Reports</i> , 2016, 6, 30647.	1.6	19
60	Meridional Contrasts in Productivity Changes Driven by the Opening of Drake Passage. <i>Paleoceanography and Paleoclimatology</i> , 2018, 33, 302-317.	1.3	18
61	Sea-level and surface-water change in the western North Atlantic across the Oligocene–Miocene Transition: A palynological perspective from IODP Site U1406 (Newfoundland margin). <i>Marine Micropaleontology</i> , 2018, 139, 57-71.	0.5	17
62	North Atlantic Midlatitude Surface-Circulation Changes Through the Pliocene–Pleistocene Intensification of Northern Hemisphere Glaciation. <i>Paleoceanography and Paleoclimatology</i> , 2018, 33, 1186-1205.	1.3	14
63	A new sea-level record for the Neogene/Quaternary boundary reveals transition to a more stable East Antarctic Ice Sheet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 30980-30987.	3.3	14
64	Geochemical assessment of the palaeoecology, ontogeny, morphotypic variability and palaeoceanographic utility of <i>Dentoglobigerina venezuelana</i> . <i>Marine Micropaleontology</i> , 2012, 84-85, 74-86.	0.5	13
65	Silicate Weathering and Carbon Cycle Controls on the Oligocene–Miocene Transition Glaciation. <i>Paleoceanography</i> , 2017, 32, 1070-1085.	3.0	13
66	North Atlantic Evidence for a Unipolar Icehouse Climate State at the Eocene–Oligocene Transition. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1124-1138.	1.3	13
67	Extracting a Detailed Magnetostratigraphy From Weakly Magnetized, Oligocene to Early Miocene Sediment Drifts Recovered at IODP Site U1406 (Newfoundland Margin, Northwest Atlantic Ocean). <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 3910-3928.	1.0	11
68	Pliocene–Pleistocene glacial–interglacial productivity changes in the eastern equatorial Pacific upwelling system. <i>Paleoceanography</i> , 2016, 31, 453-470.	3.0	10
69	Mechanistic insights into a hydrate contribution to the Paleocene–Eocene carbon cycle perturbation from coupled thermohydraulic simulations. <i>Geophysical Research Letters</i> , 2016, 43, 8637-8644.	1.5	9
70	Orbitally Forced Hyperstratification of the Oligocene South Atlantic Ocean. <i>Paleoceanography and Paleoclimatology</i> , 2018, 33, 511-529.	1.3	9
71	The Dynamics of Diachronous Extinction Associated With Climatic Deterioration Near the Neogene/Quaternary Boundary. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA004205.	1.3	8
72	Calibration of Test Diameter and Area As Proxies For Body Size in the Planktonic Foraminifer <i>Globoconella Puncticulata</i> . <i>Journal of Foraminiferal Research</i> , 2018, 48, 241-245.	0.1	8

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73	Climate-induced Variability in Mediterranean Outflow to the North Atlantic Ocean During the Late Pleistocene. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2020PA003947.	1.3	5
74	Automation of boron chromatographic purification for $\delta^{11}\text{B}$ analysis of coral aragonite. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8762.	0.7	5
75	Midlatitude Southern Hemisphere Temperature Change at the End of the Eocene Greenhouse Shortly Before Dawn of the Oligocene Icehouse. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1995-2004.	1.3	4
76	Chemical isolation and isotopic analysis of terrigenous sediments with emphasis on effective removal of contaminating marine phases including barite. <i>Chemical Geology</i> , 2022, 589, 120673.	1.4	4
77	Temperature is a poor proxy for synergistic climate forcing of plankton evolution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20180665.	1.2	3
78	On climate and abyssal circulation in the Atlantic Ocean during late Pliocene marine isotope stage M2, ~ 3.3 million years ago. <i>Quaternary Science Reviews</i> , 2020, 250, 106644.	1.4	3
79	"Bleaching" of Photosymbionts in Planktic Foraminifera During the Middle Eocene Climatic Optimum. <i>The Paleontological Society Special Publications</i> , 2014, 13, 141-141.	0.0	0