

Heiko Plike

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106
papers

9,432
citations

45
h-index

97
g-index

115
ext. papers

11,004
ext. citations

12.1
avg, IF

6.01
L-index

#	Paper	IF	Citations
106	Review and revision of Cenozoic tropical planktonic foraminiferal biostratigraphy and calibration to the geomagnetic polarity and astronomical time scale. <i>Earth-Science Reviews</i> , 2011 , 104, 111-142	10.2	547
105	Centennial-scale climate cooling with a sudden cold event around 8,200 years ago. <i>Nature</i> , 2005 , 434, 975-9	50.4	502
104	Subtropical Arctic Ocean temperatures during the Palaeocene/Eocene thermal maximum. <i>Nature</i> , 2006 , 441, 610-3	50.4	489
103	Rapid stepwise onset of Antarctic glaciation and deeper calcite compensation in the Pacific Ocean. <i>Nature</i> , 2005 , 433, 53-7	50.4	482
102	The heartbeat of the Oligocene climate system. <i>Science</i> , 2006 , 314, 1894-8	33.3	432
101	The Cenozoic palaeoenvironment of the Arctic Ocean. <i>Nature</i> , 2006 , 441, 601-5	50.4	400
100	A review of calcareous nannofossil astrobiochronology encompassing the past 25 million years?. <i>Quaternary Science Reviews</i> , 2006 , 25, 3113-3137	3.9	371
99	Climate response to orbital forcing across the Oligocene-Miocene boundary. <i>Science</i> , 2001 , 292, 274-8	33.3	352
98	Escape of methane gas from the seabed along the West Spitsbergen continental margin. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a	4.9	338
97	Arctic hydrology during global warming at the Palaeocene/Eocene thermal maximum. <i>Nature</i> , 2006 , 442, 671-5	50.4	334
96	Thresholds for Cenozoic bipolar glaciation. <i>Nature</i> , 2008 , 455, 652-6	50.4	300
95	The last 1.35 million years at Tenaghi Philippon: revised chronostratigraphy and long-term vegetation trends. <i>Quaternary Science Reviews</i> , 2006 , 25, 3416-3430	3.9	288
94	An astronomically dated record of Earth's climate and its predictability over the last 66 million years. <i>Science</i> , 2020 , 369, 1383-1387	33.3	259
93	A Cenozoic record of the equatorial Pacific carbonate compensation depth. <i>Nature</i> , 2012 , 488, 609-14	50.4	241
92	Episodic fresh surface waters in the Eocene Arctic Ocean. <i>Nature</i> , 2006 , 441, 606-9	50.4	234
91	Making sense of palaeoclimate sensitivity. <i>Nature</i> , 2012 , 491, 683-91	50.4	208
90	Eocene global warming events driven by ventilation of oceanic dissolved organic carbon. <i>Nature</i> , 2011 , 471, 349-52	50.4	191

89	Very large release of mostly volcanic carbon during the Palaeocene-Eocene Thermal Maximum. <i>Nature</i> , 2017 , 548, 573-577	50.4	186
88	Biozonation and biochronology of Miocene through Pleistocene calcareous nannofossils from low and middle latitudes. <i>Newsletters on Stratigraphy</i> , 2012 , 45, 221-244	2.9	181
87	Biozonation and biochronology of Paleogene calcareous nannofossils from low and middle latitudes. <i>Newsletters on Stratigraphy</i> , 2014 , 47, 131-181	2.9	176
86	Oligocene climate dynamics. <i>Paleoceanography</i> , 2004 , 19, n/a-n/a		140
85	Age model and core-seismic integration for the Cenozoic Arctic Coring Expedition sediments from the Lomonosov Ridge. <i>Paleoceanography</i> , 2008 , 23, n/a-n/a		123
84	Extended orbitally forced palaeoclimatic records from the equatorial Atlantic Ceara Rise. <i>Quaternary Science Reviews</i> , 2006 , 25, 3138-3149	3.9	101
83	Constraints on the numerical age of the Paleocene-Eocene boundary. <i>Geochemistry, Geophysics, Geosystems</i> , 2011 , 12, n/a-n/a	3.6	100
82	Astronomic calibration of the late Oligocene through early Miocene geomagnetic polarity time scale. <i>Earth and Planetary Science Letters</i> , 2004 , 224, 33-44	5.3	100
81	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	11.5	99
80	Astronomical forcing in Late Eocene marine sediments. <i>Earth and Planetary Science Letters</i> , 2001 , 193, 589-602	5.3	99
79	Astronomically calibrated ages for geomagnetic reversals within the Matuyama chron. <i>Earth, Planets and Space</i> , 2002 , 54, 679-690	2.9	87
78	Alternating Southern and Northern Hemisphere climate response to astronomical forcing during the past 35 m.y.. <i>Geology</i> , 2017 , 45, 375-378	5	85
77	Changes in calcareous nannofossil assemblages across the Paleocene/Eocene transition from the paleo-equatorial Pacific Ocean. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2005 , 226, 93-126	2.9	83
76	Atmospheric methane, southern European vegetation and low-mid latitude links on orbital and millennial timescales. <i>Earth and Planetary Science Letters</i> , 2009 , 277, 307-317	5.3	79
75	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	6.3	78
74	Antarctic ice sheet and oceanographic response to eccentricity forcing during the early Miocene. <i>Climate of the Past</i> , 2011 , 7, 869-880	3.9	76
73	Sea-level and salinity fluctuations during the Paleocene-Eocene thermal maximum in Arctic Spitsbergen. <i>Earth and Planetary Science Letters</i> , 2011 , 303, 97-107	5.3	70
72	Constraints on the Pleistocene chronology of sediments from the Lomonosov Ridge. <i>Paleoceanography</i> , 2008 , 23, n/a-n/a		68

71	Integrated biomagnetostratigraphy of the Alano section (NE Italy): A proposal for defining the middle-late Eocene boundary. <i>Bulletin of the Geological Society of America</i> , 2011 , 123, 841-872	3.9	64
70	Constraints on astronomical parameters from the geological record for the last 25 Myr. <i>Earth and Planetary Science Letters</i> , 2000 , 182, 1-14	5.3	64
69	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	11.5	61
68	Geologic constraints on the chaotic diffusion of the solar system. <i>Geology</i> , 2004 , 32, 929	5	61
67	Orbitally tuned timescale and astronomical forcing in the middle Eocene to early Oligocene. <i>Climate of the Past</i> , 2014 , 10, 955-973	3.9	54
66	Organic carbon burial following the middle Eocene climatic optimum in the central western Tethys. <i>Paleoceanography</i> , 2010 , 25,		54
65	Ecological and evolutionary response of Tethyan planktonic foraminifera to the middle Eocene climatic optimum (MECO) from the Alano section (NE Italy). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2010 , 292, 82-95	2.9	54
64	Quantifying K, U, and Th contents of marine sediments using shipboard natural gamma radiation spectra measured on DV JOIDES Resolution. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 1053-1064 ^{3.6}		49
63	Cyclostratigraphy and eccentricity tuning of the early Oligocene through early Miocene (30.1-17.1 Ma): Cibicides mundulus stable oxygen and carbon isotope records from Walvis Ridge Site 1264. <i>Earth and Planetary Science Letters</i> , 2016 , 450, 392-405	5.3	48
62	A ~9myr cycle in Cenozoic $\delta^{13}C$ record and long-term orbital eccentricity modulation: Is there a link?. <i>Earth and Planetary Science Letters</i> , 2012 , 317-318, 273-281	5.3	47
61	Correlation of Eocene-Oligocene marine and continental records: orbital cyclicity, magnetostratigraphy and sequence stratigraphy of the Solent Group, Isle of Wight, UK. <i>Journal of the Geological Society</i> , 2006 , 163, 401-415	2.7	45
60	Paleogene tropical Pacific: Clues to circulation, productivity, and plate motion. <i>Paleoceanography</i> , 2004 , 19, n/a-n/a		43
59	Testing the impact of diagenesis on the $\delta^{18}O$ and $\delta^{13}C$ of benthic foraminiferal calcite from a sediment burial depth transect in the equatorial Pacific. <i>Paleoceanography</i> , 2013 , 28, 468-480		42
58	Towards a robust and consistent middle Eocene astronomical timescale. <i>Earth and Planetary Science Letters</i> , 2018 , 486, 94-107	5.3	40
57	Scaled biotic disruption during early Eocene global warming events. <i>Biogeosciences</i> , 2012 , 9, 4679-4688	4.6	37
56	Lessons on Climate Sensitivity From Past Climate Changes. <i>Current Climate Change Reports</i> , 2016 , 2, 148-158	4.58	36
55	Changes in calcareous nannofossil assemblages during the Middle Eocene Climatic Optimum: Clues from the central-western Tethys (Alano section, NE Italy). <i>Marine Micropaleontology</i> , 2011 , 81, 22-31	1.7	36
54	Astronomic calibration of the late Eocene/early Oligocene Massignano section (central Italy). <i>Geochemistry, Geophysics, Geosystems</i> , 2006 , 7, n/a-n/a	3.6	35

53	Temperate rainforests near the South Pole during peak Cretaceous warmth. <i>Nature</i> , 2020 , 580, 81-86	50.4	30
52	Testing the impact of stratigraphic uncertainty on spectral analyses of sedimentary series. <i>Climate of the Past</i> , 2016 , 12, 1765-1783	3.9	30
51	Remanence acquisition efficiency in biogenic and detrital magnetite and recording of geomagnetic paleointensity. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 1435-1450	3.6	29
50	Insensitivity of alkenone carbon isotopes to atmospheric CO ₂ at low to moderate CO ₂ levels. <i>Climate of the Past</i> , 2019 , 15, 539-554	3.9	27
49	Cyclicity in the middle Eocene central Arctic Ocean sediment record: Orbital forcing and environmental response. <i>Paleoceanography</i> , 2008 , 23, n/a-n/a		26
48	Sub-decadal- to decadal-scale climate cyclicity during the Holsteinian interglacial (MIS 11) evidenced in annually laminated sediments. <i>Climate of the Past</i> , 2011 , 7, 987-999	3.9	25
47	The Cyclostratigraphy Intercomparison Project (CIP): consistency, merits and pitfalls. <i>Earth-Science Reviews</i> , 2019 , 199, 102965	10.2	24
46	Rock clock synchronization. <i>Nature Geoscience</i> , 2008 , 1, 282-282	18.3	24
45	Paleogene record of elemental concentrations in sediments from the Arctic Ocean obtained by XRF analyses. <i>Paleoceanography</i> , 2008 , 23, n/a-n/a		24
44	Revised composite depth scales and integration of IODP Sites U1331?U1334 and ODP Sites 1218?1220. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> ,		24
43	The Neogene Period 2020 , 1141-1215		24
42	Interhemispheric radio-astrochronological calibration of the time scales from the Andean and the Tethyan areas in the Valanginian?Aauterivian (Early Cretaceous). <i>Gondwana Research</i> , 2019 , 70, 104-132	5.1	20
41	The amplifying effect of Indonesian Throughflow heat transport on Late Pliocene Southern Hemisphere climate cooling. <i>Earth and Planetary Science Letters</i> , 2018 , 500, 15-27	5.3	19
40	Hydrothermal pits in the biogenic sediments of the equatorial Pacific Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , 2007 , 8, n/a-n/a	3.6	19
39	Astronomically paced changes in deep-water circulation in the western North Atlantic during the middle Eocene. <i>Earth and Planetary Science Letters</i> , 2018 , 484, 329-340	5.3	18
38	Integrated Stratigraphic Correlation and Improved Composite Depth Scales for ODP Sites 1218 and 1219		18
37	High-resolution record of export production in the eastern equatorial Pacific across the Eocene-Oligocene transition and relationships to global climatic records. <i>Paleoceanography</i> , 2013 , 28, 130-142		17
36	Hydrothermal sediments record changes in deep water oxygen content in the SE Pacific. <i>Paleoceanography</i> , 2010 , 25, n/a-n/a		17

35	Cyclic changes in Turonian to Coniacian planktic foraminiferal assemblages from the tropical Atlantic Ocean. <i>Marine Micropaleontology</i> , 2008 , 68, 299-313	1.7	17
34	Ocean and climate response to North Atlantic seaway changes at the onset of long-term Eocene cooling. <i>Earth and Planetary Science Letters</i> , 2018 , 498, 185-195	5.3	16
33	Early Cenozoic Decoupling of Climate and Carbonate Compensation Depth Trends. <i>Paleoceanography and Paleoclimatology</i> , 2019 , 34, 930-945	3.3	15
32	Orbital scale variations and timescales from the Arctic Ocean. <i>Paleoceanography</i> , 2008 , 23, n/a-n/a		15
31	The Paleogene Period 2020 , 1087-1140		15
30	The Pacific Equatorial Age Transect, IODP Expeditions 320 and 321: Building a 50-Million-Year-Long Environmental Record of the Equatorial Pacific Ocean. <i>Scientific Drilling</i> , 9 , 4-15		14
29	Tropical ocean-atmosphere controls on inter-annual climate variability in the Cretaceous Arctic. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	13
28	High-latitude biomes and rock weathering mediate climate-carbon cycle feedbacks on eccentricity timescales. <i>Nature Communications</i> , 2020 , 11, 5013	17.4	12
27	Variability of Acoustically Evidenced Methane Bubble Emissions Offshore Western Svalbard. <i>Geophysical Research Letters</i> , 2019 , 46, 9072-9081	4.9	10
26	Stable isotope and calcareous nannofossil assemblage record of the late Paleocene and early Eocene (Cicogna section). <i>Climate of the Past</i> , 2016 , 12, 883-909	3.9	10
25	Geochemistry. Impact and extinction. <i>Science</i> , 2013 , 339, 655-6	33.3	8
24	Should Unit-Stratotypes and Astrochronozones be formally defined? A dual proposal (including postscriptum). <i>Newsletters on Stratigraphy</i> , 2020 , 53, 19-39	2.9	8
23	Climate, cryosphere and carbon cycle controls on Southeast Atlantic orbital-scale carbonate deposition since the Oligocene (300 Ma). <i>Climate of the Past</i> , 2021 , 17, 2091-2117	3.9	8
22	A lower to middle Eocene astrochronology for the Mentelle Basin (Australia) and its implications for the geologic time scale. <i>Earth and Planetary Science Letters</i> , 2020 , 529, 115865	5.3	8
21	Cenozoic Arctic Ocean Climate History: Some Highlights from the Integrated Ocean Drilling Program Arctic Coring Expedition. <i>Developments in Marine Geology</i> , 2014 , 7, 259-293		7
20	EARTH Orbital Variation (Including Milankovitch Cycles) 2005 , 410-421		7
19	Elevated geothermal surface heat flow in the Amundsen Sea Embayment, West Antarctica. <i>Earth and Planetary Science Letters</i> , 2019 , 506, 530-539	5.3	7
18	QAnalyzeSeries  cross-platform time series tuning and analysis tool		7

17	Formation of hydrothermal pits and the role of seamounts in the Guatemala Basin (Equatorial East Pacific) from heat flow, seismic, and core studies. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 369-383	3.6	6
16	Astronomical Time Keeping of Earth History: An Invaluable Contribution of Scientific Ocean Drilling. <i>Oceanography</i> , 2019 , 32, 72-76	2.3	6
15	MeBo70 Seabed Drilling on a Polar Continental Shelf: Operational Report and Lessons From Drilling in the Amundsen Sea Embayment of West Antarctica. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 4235-4250	3.6	6
14	Proposal for the Global Boundary Stratotype Section and Point (GSSP) for the Priabonian Stage (Eocene) at the Alano section (Italy). <i>Episodes</i> , 2021 , 44, 151-173	1.6	6
13	Astrochronology and radio-isotopic dating of the Alano di Piave section (NE Italy), candidate GSSP for the Priabonian Stage (late Eocene). <i>Earth and Planetary Science Letters</i> , 2019 , 525, 115746	5.3	5
12	Automated cleaning of foraminifera shells before Mg/Ca analysis using a pipette robot. <i>Geochemistry, Geophysics, Geosystems</i> , 2016 , 17, 3502-3511	3.6	4
11	Orbitally tuned time scale and astronomical forcing in the middle Eocene to early Oligocene		3
10	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 2019 ,		2
9	Stable isotope and calcareous nannofossil assemblage records for the Cicogna section: toward a detailed template of late Paleocene and early Eocene global carbon cycle and nannoplankton evolution		2
8	Introduction to the Special Issue on Scientific Ocean Drilling: Looking to the Future. <i>Oceanography</i> , 2019 , 32, 14-15	2.3	2
7	Enhanced Principal Tensor Analysis as a tool for 3-way geological data reconstructions. <i>Computers and Geosciences</i> , 2019 , 123, 161-171	4.5	2
6	Carbonate ions, orbits and Mg/Ca at ODP 1123. <i>Geochimica Et Cosmochimica Acta</i> , 2018 , 236, 384-398	5.5	1
5	A New Low- to Middle-Latitude Biozonation and Revised Biochronology of Palaeogene Calcareous Nannofossils. <i>Springer Geology</i> , 2014 , 137-141	0.8	1
4	The Pacific Equatorial Age Transect: Cenozoic Ocean and Climate History (Integrated Ocean Drilling Program Expeditions 320 & 321). <i>Developments in Marine Geology</i> , 2014 , 7, 329-357		1
3	The Alano Section: The Candidate GSSP for the Priabonian Stage. <i>Springer Geology</i> , 2014 , 55-59	0.8	1
2	Single Tests of Thermocline Dwelling Foraminifera <i>Globorotalia inflata</i> as Recorder of Upper Water Column Structure off Mauritania (NW Africa): Methodology and Paleoceanographic Use. <i>Paleoceanography and Paleoclimatology</i> , 2020 , 35, e2019PA003844	3.3	0
1	Plio-Pleistocene Perth Basin water temperatures and Leeuwin Current dynamics (Indian Ocean) derived from oxygen and clumped-isotope paleothermometry. <i>Climate of the Past</i> , 2022 , 18, 1231-1253	3.9	0