

Frederik J Hilgen

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.

57
papers

2,960
citations

29
h-index

54
g-index

58
ext. papers

3,384
ext. citations

7.4
avg, IF

4.9
L-index

#	Paper	IF	Citations
57	Time scales of critical events around the Cretaceous-Paleogene boundary. <i>Science</i> , 2013 , 339, 684-7	33.3	396
56	A review of calcareous nannofossil astrobiochronology encompassing the past 25 million years?. <i>Quaternary Science Reviews</i> , 2006 , 25, 3113-3137	3.9	371
55	Long-period astronomical forcing of mammal turnover. <i>Nature</i> , 2006 , 443, 687-91	50.4	188
54	Age refinement of the Messinian salinity crisis onset in the Mediterranean. <i>Terra Nova</i> , 2013 , 25, 315-323		184
53	Evolution of the Late Miocene Mediterranean-Atlantic gateways and their impact on regional and global environmental change. <i>Earth-Science Reviews</i> , 2015 , 150, 365-392	10.2	136
52	The base of the Zanclean Stage and of the Pliocene Series. <i>Episodes</i> , 2000 , 23, 179-187	1.6	117
51	Synchronous tropical and polar temperature evolution in the Eocene. <i>Nature</i> , 2018 , 559, 382-386	50.4	115
50	A refined astronomically calibrated ⁴⁰ Ar/ ³⁹ Ar age for Fish Canyon sanidine. <i>Earth and Planetary Science Letters</i> , 2011 , 311, 420-426	5.3	108
49	Sedimentary rhythms and high-resolution chronostratigraphic correlations in the Mediterranean Pliocene. <i>Newsletters on Stratigraphy</i> , 1987 , 17, 109-127	2.9	88
48	Evaluation of the astronomical time scale for the Paleocene and earliest Eocene. <i>Earth and Planetary Science Letters</i> , 2010 , 300, 139-151	5.3	81
47	Terrestrial carbon isotope excursions and biotic change during Palaeogene hyperthermals. <i>Nature Geoscience</i> , 2012 , 5, 326-329	18.3	68
46	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
45	Stratigraphic continuity and fragmentary sedimentation: the success of cyclostratigraphy as part of integrated stratigraphy. <i>Geological Society Special Publication</i> , 2015 , 404, 157-197	1.7	55
44	Cyclostratigraphy and astronomical tuning of the Late Maastrichtian at Zumaia (Basque country, Northern Spain). <i>Earth and Planetary Science Letters</i> , 2012 , 359-360, 264-278	5.3	54
43	Precession phasing offset between Indian summer monsoon and Arabian Sea productivity linked to changes in Atlantic overturning circulation. <i>Paleoceanography</i> , 2010 , 25,		52
42	An assessment of the suitability of individual rhythmic carbonate successions for astrochronological application. <i>Earth-Science Reviews</i> , 2010 , 99, 19-30	10.2	50
41	Cyclostratigraphy and eccentricity tuning of the early Oligocene through early Miocene (30.1-7.1 Ma): <i>Cibicides mundulus</i> 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

40	High-precision zircon U ^{Pb} geochronology of astronomically dated volcanic ash beds from the Mediterranean Miocene. <i>Earth and Planetary Science Letters</i> , 2014 , 407, 19-34	5.3	46
39	Testing astronomically tuned age models. <i>Paleoceanography</i> , 2015 , 30, 369-383		43
38	Tectonic and climatic controls on coastal sedimentation: The Late Pliocene-Middle Pleistocene of northeastern Rhodes, Greece. <i>Sedimentary Geology</i> , 2006 , 187, 159-181	2.8	43
37	Long-period eccentricity control on sedimentary sequences in the continental Madrid Basin (middle Miocene, Spain). <i>Earth and Planetary Science Letters</i> , 2010 , 289, 220-231	5.3	42
36	Orbital control on the timing of oceanic anoxia in the Late Cretaceous. <i>Climate of the Past</i> , 2016 , 12, 1995-2009	3.9	40
35	Astronomical forcing in Upper Miocene continental sequences: implications for the Geomagnetic Polarity Time Scale. <i>Earth and Planetary Science Letters</i> , 2004 , 222, 243-258	5.3	37
34	Linear and non-linear response of late Neogene glacial cycles to obliquity forcing and implications for the Milankovitch theory. <i>Quaternary Science Reviews</i> , 2010 , 29, 352-365	3.9	36
33	Late Pliocene climate variability on Milankovitch to millennial time scales: A high-resolution study of MIS100 from the Mediterranean. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2005 , 228, 338-360	3.9	35
32	An astronomical time scale for the Maastrichtian based on the Zumaia and Sopelana sections (Basque country, northern Spain). <i>Journal of the Geological Society</i> , 2014 , 171, 165-180	2.7	32
31	Improved astronomical age constraints for the middle Miocene climate transition based on high-resolution stable isotope records from the central Mediterranean Maltese Islands. <i>Paleoceanography</i> , 2011 , 26,		31
30	Chronology with a pinch of salt: Integrated stratigraphy of Messinian evaporites in the deep Eastern Mediterranean reveals long-lasting halite deposition during Atlantic connectivity. <i>Earth-Science Reviews</i> , 2019 , 194, 374-398	10.2	29
29	The Miocene astronomical time scale 9–12 Ma: New constraints on tidal dissipation and their implications for paleoclimatic investigations. <i>Paleoceanography</i> , 2014 , 29, 296-307		29
28	Climate control on banded iron formations linked to orbital eccentricity. <i>Nature Geoscience</i> , 2019 , 12, 369-374	18.3	26
27	The Cyclostratigraphy Intercomparison Project (CIP): consistency, merits and pitfalls. <i>Earth-Science Reviews</i> , 2019 , 199, 102965	10.2	24
26	Rock clock synchronization. <i>Nature Geoscience</i> , 2008 , 1, 282-282	18.3	24
25	Mediterranean contributions to cyclostratigraphy and astrochronology. <i>Sedimentology</i> , 2009 , 56, 63-94	3.3	23
24	Chronostratigraphy and geochronology: A proposed realignment. <i>GSA Today</i> , 2013 , 23, 4-8	2.8	22
23	Conceptual models for short-eccentricity-scale climate control on peat formation in a lower Palaeocene fluvial system, north-eastern Montana (USA). <i>Sedimentology</i> , 2018 , 65, 775-808	3.3	22

22	Towards a stable astronomical time scale for the Paleocene: Aligning Shatsky Rise with the Zumaia [Walvis Ridge ODP Site 1262 composite. <i>Newsletters on Stratigraphy</i> , 2015 , 48, 91-110	2.9	21
21	Deep-basin evidence resolves a 50-year-old debate and demonstrates synchronous onset of Messinian evaporite deposition in a non-desiccated Mediterranean. <i>Geology</i> , 2018 , 46, 243-246	5	20
20	Quaternary: status, rank, definition, survival. <i>Episodes</i> , 2005 , 28, 118-120	1.6	19
19	Astronomical dating in the 19th century. <i>Earth-Science Reviews</i> , 2010 , 98, 65-80	10.2	17
18	Radioisotopic dating of the Tortonian Global Stratotype Section and Point: implications for intercalibration of $^{40}\text{Ar}/^{39}\text{Ar}$ and astronomical dating methods. <i>Terra Nova</i> , 2005 , 17, 385-398	3	14
17	Reducing Disparity in Radio-Isotopic and Astrochronology-Based Time Scales of the Late Eocene and Oligocene. <i>Paleoceanography</i> , 2017 , 32, 1018-1035		13
16	Neogene and Quaternary coexisting in the geological time scale: The inclusive compromise. <i>Earth-Science Reviews</i> , 2009 , 96, 249-262	10.2	13
15	Taner filter settings and automatic correlation optimisation for cyclostratigraphic studies. <i>Computers and Geosciences</i> , 2018 , 119, 18-28	4.5	11
14	Imprint of Messinian Salinity Crisis events on the Spanish Atlantic margin. <i>Newsletters on Stratigraphy</i> , 2018 , 51, 93-115	2.9	11
13	Time scale evaluation and the quantification of obliquity forcing. <i>Quaternary Science Reviews</i> , 2019 , 209, 100-113	3.9	9
12	Recent progress in the standardization and calibration of the Cenozoic Time Scale. <i>Newsletters on Stratigraphy</i> , 2008 , 43, 15-22	2.9	8
11	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
10	Orbitally Forced Hyperstratification of the Oligocene South Atlantic Ocean. <i>Paleoceanography and Paleoclimatology</i> , 2018 , 33, 511-529	3.3	8
9	A 9 million-year-long astrochronological record of the early-middle Eocene corroborated by seafloor spreading rates. <i>Bulletin of the Geological Society of America</i> , 2019 , 131, 499-520	3.9	7
8	Structural controls on sedimentation during asymmetric extension: The case of Sorbas Basin (SE Spain). <i>Global and Planetary Change</i> , 2018 , 171, 185-206	4.2	6
7	The case for the original Neogene. <i>Newsletters on Stratigraphy</i> , 2008 , 43, 23-32	2.9	5
6	Paleoclimate records reveal elusive ~200-kyr eccentricity cycle for the first time. <i>Global and Planetary Change</i> , 2020 , 194, 103296	4.2	5
5	Orbital-climate control of mass-flow sedimentation in a Miocene alluvial-fan succession (Teruel Basin, Spain). <i>Geological Society Special Publication</i> , 2018 , 440, 129-157	1.7	4

4	Long-eccentricity regulated climate control on fluvial incision and aggradation in the Palaeocene of north-eastern Montana (USA). <i>Sedimentology</i> , 2020 , 67, 2529-2560	3.3	2
3	Asian aridification linked to the first step of the Eocene-Oligocene Climate Transition (EOT) in obliquity-dominated terrestrial records in Xining Basin, China. <i>Journal of Earth Science (Wuhan, China)</i> , 2010 , 21, 219-220	2.2	2
2	Cyclostratigraphic calibration of the Eifelian Stage (Middle Devonian, Appalachian Basin, Western New York, USA). <i>Bulletin of the Geological Society of America</i> , 2021 , 133, 277-286	3.9	1
1	Ages of the Fish Canyon Sanidine Standard and the K _{Ar} g Boundary. <i>Springer Geology</i> , 2014 , 197-199	0.8	