Peter M Sadler

List of Publications by Year
in descending order

54 papers	4,669 citations	218592 26 h-index	197736 49 g-index
55 all docs	55 docs citations	55 times ranked	3800 citing authors

#	Article	IF	Citations
1	Tectonic Controls on Himalayan Denudation?. AGU Advances, 2021, 2, e2021AV000539.	2.3	4
2	The human impact on North American erosion, sediment transfer, and storage in a geologic context. Nature Communications, 2020, 11, 6012.	5.8	43
3	A high-resolution summary of Cambrian to Early Triassic marine invertebrate biodiversity. Science, 2020, 367, 272-277.	6.0	298
4	Ephemeral species in the fossil record? Synchronous coupling of macroevolutionary dynamics in mid-Paleozoic zooplankton. Paleobiology, 2020, 46, 123-135.	1.3	11
5	Completeness of the known graptoloid palaeontological record. Journal of the Geological Society, 2019, 176, 1038-1055.	0.9	10
6	Diversity-dependent evolutionary rates in early Palaeozoic zooplankton. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180122.	1.2	26
7	Geometric interpretation of time-scale dependent sedimentation rates. Sedimentary Geology, 2018, 371, 32-40.	1.0	8
8	Global species richness record and biostratigraphic potential of early to middle Neoproterozoic eukaryote fossils. Precambrian Research, 2018, 319, 6-18.	1.2	69
9	Pacing of Paleozoic macroevolutionary rates by Milankovitch grand cycles. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5686-5691.	3.3	48
10	The impact of geographic range, sampling, ecology, and time on extinction risk in the volatile clade Graptoloida. Paleobiology, 2017, 43, 85-113.	1.3	5
11	Snowball Earth climate dynamics and Cryogenian geology-geobiology. Science Advances, 2017, 3, e1600983.	4.7	424
12	A composite foraminiferal biostratigraphic sequence for the Lower Miocene deposits in the type area of the Qom Formation, central Iran, developed by constrained optimization (CONOP). Journal of African Earth Sciences, 2017, 125, 214-229.	0.9	9
13	Slow net sediment accumulation sets snowball Earth apart from all younger glacial episodes. Geology, 2016, 44, 1019-1022.	2.0	42
14	Estimating the duration of geologic intervals from a small number of age determinations: A challenge common to petrology and paleobiology. Geochemistry, Geophysics, Geosystems, 2016, 17, 4892-4898.	1.0	8
15	Greenhouseâ˘icehouse transition in the Late Ordovician marks a step change in extinction regime in the marine plankton. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1498-1503.	3.3	70
16	When and how did the terrestrial mid-Permian mass extinction occur? Evidence from the tetrapod record of the Karoo Basin, South Africa. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150834.	1.2	115
17	Scaling laws for aggradation, denudation and progradation rates: the case for time-scale invariance at sediment sources and sinks. Geological Society Special Publication, 2015, 404, 69-88.	0.8	79
18	Graptoloid evolutionary rates track Ordovicianâ€"Silurian global climate change. Geological Magazine, 2014, 151, 349-364.	0.9	91

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19	Climatic and eustatic signals in a global compilation of shallow marine carbonate accumulation rates. Sedimentology, 2014, 61, 1286-1297.	1.6	25
20	A re-examination of the contributions of biofacies and geographic range to extinction risk in Ordovician graptolites. Gff, 2014, 136, 38-41.	0.4	5
21	Quantifying the process and abruptness of the end-Permian mass extinction. Paleobiology, 2014, 40, 113-129.	1.3	80
22	Calibrating the End-Permian Mass Extinction. Science, 2011, 334, 1367-1372.	6.0	648
23	Sequencing the graptoloid clade: building a global diversity curve from local range charts, regional composites and global time-lines. Proceedings of the Yorkshire Geological Society, 2011, 58, 329-343.	0.2	44
24	Facies preference predicts extinction risk in Ordovician graptolites. Paleobiology, 2010, 36, 167-187.	1.3	27
25	Brute-Force Biochronology: Sequencing Paleobiologic First- and Last-Appearance Events by Trial-and-Error. The Paleontological Society Papers, 2010, 16, 271-289.	0.8	6
26	High-resolution, early Paleozoic (Ordovician-Silurian) time scales. Bulletin of the Geological Society of America, 2009, 121, 887-906.	1.6	133
27	Thinking outside the zone: High-resolution quantitative diatom biochronology for the Antarctic Neogene. Palaeogeography, Palaeoclimatology, Palaeoecology, 2008, 260, 92-121.	1.0	121
28	Improved resolution and quantified stratigraphic uncertainty time scales of the future. Newsletters on Stratigraphy, 2008, 43, 49-53.	0.5	4
29	CONOP9 Programs for Solving the Stratigraphic Correlation and Seriation Problems as Constrained Optimization. Topics in Geobiology, 2008, , 461-462.	0.6	12
30	Best-Fit Intervals and Consensus Sequences. Topics in Geobiology, 2008, , 49-94.	0.6	15
31	Combining Stratigraphic Sections and Museum Collections to Increase Biostratigraphic Resolution. Topics in Geobiology, 2008, , 95-128.	0.6	5
32	Transience and persistence in the depositional record of continental margins. Journal of Geophysical Research, 2007, 112, .	3.3	64
33	Composite Time Lines: A Means to Leverage Resolving Power from Radioisotopic Dates and Biostratigraphy. The Paleontological Society Papers, 2006, 12, 145-170.	0.8	7
34	3. Calibration of the Ordovician Timescale. , 2004, , 48-51.		11
35	QUANTITATIVE BIOSTRATIGRAPHYâ€"ACHIEVING FINER RESOLUTION IN GLOBAL CORRELATION. Annual Review of Earth and Planetary Sciences, 2004, 32, 187-213.	4.6	130
36	ESTIMATING THE LINE OF CORRELATION. , 1995, , 51-64.		8

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37	EXTENDING GRAPHIC CORRELATION TO MANY DIMENSIONS: STRATIGRAPHIC CORRELATION AS CONSTRAINED OPTIMIZATION. , 1995, , 65-82.		36
38	The expected duration of upward-shallowing peritidal carbonate cycles and their terminal hiatuses. Bulletin of the Geological Society of America, 1994, 106, 791-802.	1.6	68
39	Chapter 9: The Mill Creek Basin, the Potato Sandstone, and fault strands in the San Andreas fault zone south of the San Bernardino Mountains. Memoir of the Geological Society of America, 1993, , 289-306.	0.5	4
40	Chapter 10: The Santa Ana basin of the central San Bernardino Mountains: Evidence of the timing of uplift and strike slip relative to the San Gabriel Mountains. Memoir of the Geological Society of America, 1993, , 307-322.	0.5	8
41	Models of time-averaging as a maturation process: How soon do sedimentary sections escape reworking?. Short Courses in Paleontology, 1993, 6, 188-209.	0.2	8
42	Time Scale Dependence of the Rates of Unsteady Geologic Processes. , 1993, , 221-228.		5
43	Estimation of completeness of stratigraphical sections using empirical data and theoretical models. Journal of the Geological Society, 1990, 147, 471-485.	0.9	116
44	Stochastic models for the completeness of stratigraphic sections. Mathematical Geosciences, 1989, 21, 37-59.	0.9	69
45	Classical confidence intervals and Bayesian probability estimates for ends of local taxon ranges. Mathematical Geosciences, 1989, 21, 411-427.	0.9	315
46	Geometry and stratification of uppermost Cretaceous and Paleogene units on Seymour Island, northern Antarctic Peninsula. Memoir of the Geological Society of America, 1988, , 303-320.	0.5	106
47	A New Look at Sedimentation Rates and the Completeness of the Stratigraphic Record. Journal of Geology, 1987, 95, 1-14.	0.7	90
48	Stratigraphy: Is the present long enough to measure the past?. Nature, 1983, 302, 752-752.	13.7	11
49	The Effects of Stratigraphic Completeness on Estimates of Evolutionary Rates. Systematic Biology, 1982, 31, 400-412.	2.7	14
50	The Effects of Stratigraphic Completeness on Estimates of Evolutionary Rates. Systematic Zoology, 1982, 31, 400.	1.6	34
51	Bed-thickness and grain size of turbidites. Sedimentology, 1982, 29, 37-51.	1.6	35
52	Sediment Accumulation Rates and the Completeness of Stratigraphic Sections. Journal of Geology, 1981, 89, 569-584.	0.7	1,040
53	Thesignificance of time scale for the rate of accretion of marine manganese nodules and crusts. Marine Geology, 1980, 35, M27-M32.	0.9	4
54	Data and tools for geologic timelines and timescales. , 0, , 145-165.		1