Shanan E Peters

List of Publications by Year
in descending order

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74 papers	4,766 citations	101543 36 h-index	98798 67 g-index
87 all docs	87 docs citations	87 times ranked	3433 citing authors

#	Article	IF	Citations
1	Phanerozoic Trends in the Global Diversity of Marine Invertebrates. Science, 2008, 321, 97-100.	12.6	643
2	Biodiversity in the Phanerozoic: a reinterpretation. Paleobiology, 2001, 27, 583-601.	2.0	308
3	Geologic constraints on the macroevolutionary history of marine animals. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12326-12331.	7.1	265
4	Formation of the â€˜Great Unconformityâ€™ as a trigger for the Cambrian explosion. Nature, 2012, 484, 363-366.	27.8	265
5	Determinants of extinction in the fossil record. Nature, 2002, 416, 420-424.	27.8	198
6	Phanerozoic Earth System Evolution and Marine Biodiversity. Science, 2011, 334, 1121-1124.	12.6	194
7	Environmental determinants of extinction selectivity in the fossil record. Nature, 2008, 454, 626-629.	27.8	152
8	Plate tectonic regulation of global marine animal diversity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5653-5658.	7.1	149
9	Climate change and the selective signature of the Late Ordovician mass extinction. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6829-6834.	7.1	138
10	Sulfate Burial Constraints on the Phanerozoic Sulfur Cycle. Science, 2012, 337, 331-334.	12.6	130
11	Predation upon Hatchling Dinosaurs by a New Snake from the Late Cretaceous of India. PLoS Biology, 2010, 8, e1000322.	5.6	112
12	Delayed fungal evolution did not cause the Paleozoic peak in coal production. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2442-2447.	7.1	107
13	Storm and fair-weather wave base: A relevant distinction?. Geology, 2012, 40, 511-514.	4.4	102
14	Neoproterozoic glacial origin of the Great Unconformity. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1136-1145.	7.1	100
15	Macrostratigraphy of North America. Journal of Geology, 2006, 114, 391-412.	1.4	94
16	Genus extinction, origination, and the durations of sedimentary hiatuses. Paleobiology, 2006, 32, 387-407.	2.0	92
17	The rise and fall of stromatolites in shallow marine environments. Geology, 2017, 45, 487-490.	4.4	84
18	The Paleobiology Database application programming interface. Paleobiology, 2016, 42, 1-7.	2.0	81

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19	A Machine Reading System for Assembling Synthetic Paleontological Databases. PLoS ONE, 2014, 9, e113523.	2.5	75
20	Intelligent systems for geosciences. Communications of the ACM, 2018, 62, 76-84.	4.5	71
21	Macroevolutionary History of the Planktic Foraminifera. Annual Review of Earth and Planetary Sciences, 2015, 43, 139-166.	11.0	65
22	The problem with the Paleozoic. Paleobiology, 2007, 33, 165-181.	2.0	63
23	Atmospheric oxygenation driven by unsteady growth of the continental sedimentary reservoir. Earth and Planetary Science Letters, 2017, 460, 68-75.	4.4	62
24	A 56million year rhythm in North American sedimentation during the Phanerozoic. Earth and Planetary Science Letters, 2011, 303, 174-180.	4.4	60
25	The geological completeness of paleontological sampling in North America. Paleobiology, 2010, 36, 61-79.	2.0	59
26	A sampling-adjusted macroevolutionary history for Ordovician-Early Silurian crinoids. Paleobiology, 2008, 34, 104-116.	2.0	58
27	Sediment cycling on continental and oceanic crust. Geology, 2017, 45, 323-326.	4.4	58
28	Macrostrat: A Platform for Geological Data Integration and Deepâ€Time Earth Crust Research. Geochemistry, Geophysics, Geosystems, 2018, 19, 1393-1409.	2.5	57
29	Basin-scale cyclostratigraphy of the Green River Formation, Wyoming. Bulletin of the Geological Society of America, 2013, 125, 216-228.	3.3	56
30	Global geologic maps are tectonic speedometers--Rates of rock cycling from area-age frequencies. Bulletin of the Geological Society of America, 2009, 121, 760-779.	3.3	55
31	Evenness of Cambrianâ€“Ordovician benthic marine communities in North America. Paleobiology, 2004, 30, 325-346.	2.0	52
32	SEQUENCE STRATIGRAPHIC CONTROL ON PRESERVATION OF LATE EOCENE WHALES AND OTHER VERTEBRATES AT WADI AL-HITAN, EGYPT. Palaios, 2009, 24, 290-302.	1.3	51
33	Oceanographic controls on the diversity and extinction of planktonic foraminifera. Nature, 2013, 493, 398-401.	27.8	48
34	Large-scale glaciation and deglaciation of Antarctica during the Late Eocene. Geology, 2010, 38, 723-726.	4.4	45
35	Regional Environmental Breadth Predicts Geographic Range and Longevity in Fossil Marine Genera. PLoS ONE, 2011, 6, e18946.	2.5	38
36	Oxygen Isotope Variability within Nautilus Shell Growth Bands. PLoS ONE, 2016, 11, e0153890.	2.5	38

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37	A revised macroevolutionary history for Ordovicianâ€“Early Silurian crinoids. Paleobiology, 2005, 31, 538-551.	2.0	37
38	Covariation in macrostratigraphic and macroevolutionary patterns in the marine record of North America. Bulletin of the Geological Society of America, 2011, 123, 620-630.	3.3	29
39	Nature of the sedimentary rock record and its implications for Earth system evolution. Emerging Topics in Life Sciences, 2018, 2, 125-136.	2.6	29
40	Secondary tiering on crinoids from the Waldron Shale (Silurian: Wenlockian) of Indiana. Journal of Paleontology, 1998, 72, 887-894.	0.8	28
41	Relative abundance of Sepkoski's evolutionary faunas in Cambrianâ€“Ordovician deep subtidal environments in North America. Paleobiology, 2004, 30, 543-560.	2.0	28
42	paleobioDB: an R package for downloading, visualizing and processing data from the Paleobiology Database. Ecography, 2015, 38, 419-425.	4.5	28
43	Large isotopic variability at the micron-scale in â€˜Shuramâ€™ excursion carbonates from South Australia. Earth and Planetary Science Letters, 2020, 538, 116211.	4.4	27
44	The composition and weathering of the continents over geologic time. Geochemical Perspectives Letters, 0, , 21-26.	5.0	27
45	The Sedimentary Geochemistry and Paleoenvironments Project. Geobiology, 2021, 19, 545-556.	2.4	26
46	Macrostratigraphy and macroevolution in marine environments: testing the common-cause hypothesis. Geological Society Special Publication, 2011, 358, 95-104.	1.3	23
47	Ion microprobeâ€“measured stable isotope evidence for ammonite habitat and life mode during early ontogeny. Paleobiology, 2018, 44, 684-708.	2.0	21
48	Stratigraphic distribution of marine fossils in North America. Geology, 2011, 39, 259-262.	4.4	18
49	Species-Abundance Models: An Ecological Approach to Inferring Paleoenvironment and Resolving Paleoecological Change in the Waldron Shale (Silurian). Palaios, 1999, 14, 234.	1.3	16
50	On the Relationship between Macrostratigraphy and Geological Processes: Quantitative Information Capture and Sampling Robustness. Journal of Geology, 2010, 118, 111-130.	1.4	15
51	GENUS RICHNESS IN CAMBRIAN-ORDOVICIAN BENTHIC MARINE COMMUNITIES IN NORTH AMERICA. Palaios, 2006, 21, 580-587.	1.3	13
52	The Marjuman trilobite Cedarina Lochman: thoracic morphology, systematics, and new species from western Utah and eastern Nevada, USA. Zootaxa, 2009, 2218, 35-58.	0.5	13
53	DigitalCrust â€“ a 4D data system of material properties for transforming research on crustal fluid flow. Geofluids, 2015, 15, 372-379.	0.7	13
54	Glacially influenced sedimentation in the late Neoproterozoic Mechum River Formation, Blue Ridge province, Virginia. Geology, 1998, 26, 623.	4.4	12

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55	Pyrite mega-analysis reveals modes of anoxia through geological time. Science Advances, 2022, 8, eabj5687.	10.3	11
56	Macrostratigraphy and Its Promise for Paleobiology. The Paleontological Society Papers, 2008, 14, 205-231.	0.6	10
57	The fossil record and spatial structuring of environments and biodiversity in the Cenozoic of New Zealand. Geological Society Special Publication, 2011, 358, 105-122.	1.3	10
58	The Mechum River Formation, Virginia Blue Ridge: A Record of Neoproterozoic and Paleozoic Tectonics in Southeastern Laurentia. Numerische Mathematik, 2007, 307, 1-22.	1.4	9
59	Curation and Analysis of Global Sedimentary Geochemical Data to Inform Earth History. GSA Today, 2021, 31, 4-10.	2.0	9
60	Large-scale glaciation and deglaciation of Antarctica during the late Eocene: REPLY. Geology, 2012, 40, e255-e255.	4.4	8
61	Authigenic carbonate burial in the Late Devonianâ€“Early Mississippian Bakken Formation (Williston) Tj ETQq1 1 0.784314 rgBT /Ove	3.1	8
62	Macrostratigraphy: Insights into Cyclic and Secular Evolution of the Earth-Life System. Annual Review of Earth and Planetary Sciences, 2022, 50, 419-449.	11.0	8
63	Influence of increasing carbonate saturation in Atlantic bottom water during the late Miocene. Palaeogeography, Palaeoclimatology, Palaeoecology, 2019, 518, 134-142.	2.3	7
64	We need a global comprehensive stratigraphic database: hereâ€™s a start. The Sedimentary Record, 2018, 16, 4-9.	0.6	7
65	Feedback between surface and deep processes: Insight from time series analysis of sedimentary record. Earth and Planetary Science Letters, 2022, 579, 117352.	4.4	7
66	Igneous rock area and age in continental crust. Geology, 2021, 49, 1235-1239.	4.4	6
67	Fossil burrow assemblage, not mangrove roots: reinterpretation of the main whale-bearing layer in the late Eocene of Wadi Al-Hitan, Egypt. Palaeobiodiversity and Palaeoenvironments, 2019, 99, 143-158.	1.5	4
68	What's Your Delta? EarthRatesâ€”A New NSF Funded Research Coordination Network for Linking Scales Across the Sedimentary Crust. The Sedimentary Record, 2017, 15, 4-8.	0.6	2
69	Demo of marius. Proceedings of the VLDB Endowment, 2021, 14, 2759-2762.	3.8	2
70	High Spatial-resolution Assessment of Diagenesis and Primary Isotopic Variability in Maastrichtian Molluscan Carbonates from Antarctica. Microscopy and Microanalysis, 2020, 26, 300-301.	0.4	1
71	A New Tool for Deep-Down Data Mining. Eos, 2017, , .	0.1	1
72	Back to bedrock for paleobiology. Trends in Ecology and Evolution, 2013, 28, 452-453.	8.7	0

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73	Bringing Paleontology's â€˜Dark Dataâ€™ to Light. The Paleontological Society Special Publications, 2014, 13, 4-6.	0.0	0
74	Response by Shanan E. Peters for the presentation of the 2014 Charles Schuchert Award of the Paleontological Society. Journal of Paleontology, 2017, 91, 1328-1329.	0.8	0