Shanan E Peters

List of Publications by Year
in descending order

74 papers	4,766 citations	101384 36 h-index	98622 67 g-index
87 all docs	87 docs citations	87 times ranked	3433 citing authors

#	Article	IF	Citations
1	Feedback between surface and deep processes: Insight from time series analysis of sedimentary record. Earth and Planetary Science Letters, 2022, 579, 117352.	1.8	7
2	Macrostratigraphy: Insights into Cyclic and Secular Evolution of the Earth-Life System. Annual Review of Earth and Planetary Sciences, 2022, 50, 419-449.	4.6	8
3	Pyrite mega-analysis reveals modes of anoxia through geological time. Science Advances, 2022, 8, eabj5687.	4.7	11
4	Curation and Analysis of Global Sedimentary Geochemical Data to Inform Earth History. GSA Today, 2021, 31, 4-10.	1.1	9
5	Igneous rock area and age in continental crust. Geology, 2021, 49, 1235-1239.	2.0	6
6	The Sedimentary Geochemistry and Paleoenvironments Project. Geobiology, 2021, 19, 545-556.	1.1	26
7	Demo of marius. Proceedings of the VLDB Endowment, 2021, 14, 2759-2762.	2.1	2
8	Authigenic carbonate burial in the Late Devonianâ€“Early Mississippian Bakken Formation (Williston) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.6	8
9	High Spatial-resolution Assessment of Diagenesis and Primary Isotopic Variability in Maastrichtian Molluscan Carbonates from Antarctica. Microscopy and Microanalysis, 2020, 26, 300-301.	0.2	1
10	Large isotopic variability at the micron-scale in â€˜Shuramâ€™ excursion carbonates from South Australia. Earth and Planetary Science Letters, 2020, 538, 116211.	1.8	27
11	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.	0.6	4
12	Neoproterozoic glacial origin of the Great Unconformity. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1136-1145.	3.3	100
13	Influence of increasing carbonate saturation in Atlantic bottom water during the late Miocene. Palaeogeography, Palaeoclimatology, Palaeoecology, 2019, 518, 134-142.	1.0	7
14	Macrostrat: A Platform for Geological Data Integration and Deepâ€Time Earth Crust Research. Geochemistry, Geophysics, Geosystems, 2018, 19, 1393-1409.	1.0	57
15	Intelligent systems for geosciences. Communications of the ACM, 2018, 62, 76-84.	3.3	71
16	Ion microprobeâ€“measured stable isotope evidence for ammonite habitat and life mode during early ontogeny. Paleobiology, 2018, 44, 684-708.	1.3	21
17	Nature of the sedimentary rock record and its implications for Earth system evolution. Emerging Topics in Life Sciences, 2018, 2, 125-136.	1.1	29
18	We need a global comprehensive stratigraphic database: hereâ€™s a start. The Sedimentary Record, 2018, 16, 4-9.	0.4	7

#	Article	IF	Citations
19	Sediment cycling on continental and oceanic crust. Geology, 2017, 45, 323-326.	2.0	58
20	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.	3.3	149
21	The rise and fall of stromatolites in shallow marine environments. Geology, 2017, 45, 487-490.	2.0	84
22	Atmospheric oxygenation driven by unsteady growth of the continental sedimentary reservoir. Earth and Planetary Science Letters, 2017, 460, 68-75.	1.8	62
23	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.	0.5	0
24	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.	0.4	2
25	A New Tool for Deep-Down Data Mining. Eos, 2017, , .	0.1	1
26	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.	3.3	107
27	The Paleobiology Database application programming interface. Paleobiology, 2016, 42, 1-7.	1.3	81
28	Oxygen Isotope Variability within Nautilus Shell Growth Bands. PLoS ONE, 2016, 11, e0153890.	1.1	38
29	DigitalCrust â€“ a 4D data system of material properties for transforming research on crustal fluid flow. Geofluids, 2015, 15, 372-379.	0.3	13
30	Macroevolutionary History of the Planktic Foraminifera. Annual Review of Earth and Planetary Sciences, 2015, 43, 139-166.	4.6	65
31	paleobioDB: an R package for downloading, visualizing and processing data from the Paleobiology Database. Ecography, 2015, 38, 419-425.	2.1	28
32	Bringing Paleontology's â€˜Dark Dataâ€™ to Light. The Paleontological Society Special Publications, 2014, 13, 4-6.	0.0	0
33	A Machine Reading System for Assembling Synthetic Paleontological Databases. PLoS ONE, 2014, 9, e113523.	1.1	75
34	Oceanographic controls on the diversity and extinction of planktonic foraminifera. Nature, 2013, 493, 398-401.	13.7	48
35	Back to bedrock for paleobiology. Trends in Ecology and Evolution, 2013, 28, 452-453.	4.2	0
36	Basin-scale cyclostratigraphy of the Green River Formation, Wyoming. Bulletin of the Geological Society of America, 2013, 125, 216-228.	1.6	56

#	Article	IF	Citations
37	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.	3.3	138
38	Large-scale glaciation and deglaciation of Antarctica during the late Eocene: REPLY. Geology, 2012, 40, e255-e255.	2.0	8
39	Storm and fair-weather wave base: A relevant distinction?. Geology, 2012, 40, 511-514.	2.0	102
40	Formation of the â€˜Great Unconformityâ€™ as a trigger for the Cambrian explosion. Nature, 2012, 484, 363-366.	13.7	265
41	Sulfate Burial Constraints on the Phanerozoic Sulfur Cycle. Science, 2012, 337, 331-334.	6.0	130
42	Stratigraphic distribution of marine fossils in North America. Geology, 2011, 39, 259-262.	2.0	18
43	A 56million year rhythm in North American sedimentation during the Phanerozoic. Earth and Planetary Science Letters, 2011, 303, 174-180.	1.8	60
44	Macrostratigraphy and macroevolution in marine environments: testing the common-cause hypothesis. Geological Society Special Publication, 2011, 358, 95-104.	0.8	23
45	Phanerozoic Earth System Evolution and Marine Biodiversity. Science, 2011, 334, 1121-1124.	6.0	194
46	Covariation in macrostratigraphic and macroevolutionary patterns in the marine record of North America. Bulletin of the Geological Society of America, 2011, 123, 620-630.	1.6	29
47	The fossil record and spatial structuring of environments and biodiversity in the Cenozoic of New Zealand. Geological Society Special Publication, 2011, 358, 105-122.	0.8	10
48	Regional Environmental Breadth Predicts Geographic Range and Longevity in Fossil Marine Genera. PLoS ONE, 2011, 6, e18946.	1.1	38
49	On the Relationship between Macrostratigraphy and Geological Processes: Quantitative Information Capture and Sampling Robustness. Journal of Geology, 2010, 118, 111-130.	0.7	15
50	Predation upon Hatchling Dinosaurs by a New Snake from the Late Cretaceous of India. PLoS Biology, 2010, 8, e1000322.	2.6	112
51	Large-scale glaciation and deglaciation of Antarctica during the Late Eocene. Geology, 2010, 38, 723-726.	2.0	45
52	The geological completeness of paleontological sampling in North America. Paleobiology, 2010, 36, 61-79.	1.3	59
53	The Marjuman trilobite Cedarina Lochman: thoracic morphology, systematics, and new species from western Utah and eastern Nevada, USA. Zootaxa, 2009, 2218, 35-58.	0.2	13
54	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.	1.6	55

#	Article	IF	Citations
55	SEQUENCE STRATIGRAPHIC CONTROL ON PRESERVATION OF LATE EOCENE WHALES AND OTHER VERTEBRATES AT WADI AL-HITAN, EGYPT. Palaios, 2009, 24, 290-302.	0.6	51
56	Environmental determinants of extinction selectivity in the fossil record. Nature, 2008, 454, 626-629.	13.7	152
57	A sampling-adjusted macroevolutionary history for Ordovician-Early Silurian crinoids. Paleobiology, 2008, 34, 104-116.	1.3	58
58	Phanerozoic Trends in the Global Diversity of Marine Invertebrates. Science, 2008, 321, 97-100.	6.0	643
59	Macrostratigraphy and Its Promise for Paleobiology. The Paleontological Society Papers, 2008, 14, 205-231.	0.8	10
60	The Mechum River Formation, Virginia Blue Ridge: A Record of Neoproterozoic and Paleozoic Tectonics in Southeastern Laurentia. Numerische Mathematik, 2007, 307, 1-22.	0.7	9
61	The problem with the Paleozoic. Paleobiology, 2007, 33, 165-181.	1.3	63
62	Macrostratigraphy of North America. Journal of Geology, 2006, 114, 391-412.	0.7	94
63	GENUS RICHNESS IN CAMBRIAN-ORDOVICIAN BENTHIC MARINE COMMUNITIES IN NORTH AMERICA. Palaios, 2006, 21, 580-587.	0.6	13
64	Genus extinction, origination, and the durations of sedimentary hiatuses. Paleobiology, 2006, 32, 387-407.	1.3	92
65	A revised macroevolutionary history for Ordovicianâ€“Early Silurian crinoids. Paleobiology, 2005, 31, 538-551.	1.3	37
66	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.	3.3	265
67	Evenness of Cambrianâ€“Ordovician benthic marine communities in North America. Paleobiology, 2004, 30, 325-346.	1.3	52
68	Relative abundance of Sepkoski's evolutionary faunas in Cambrianâ€“Ordovician deep subtidal environments in North America. Paleobiology, 2004, 30, 543-560.	1.3	28
69	Determinants of extinction in the fossil record. Nature, 2002, 416, 420-424.	13.7	198
70	Biodiversity in the Phanerozoic: a reinterpretation. Paleobiology, 2001, 27, 583-601.	1.3	308
71	Species-Abundance Models: An Ecological Approach to Inferring Paleoenvironment and Resolving Paleoecological Change in the Waldron Shale (Silurian). Palaios, 1999, 14, 234.	0.6	16
72	Glacially influenced sedimentation in the late Neoproterozoic Mechum River Formation, Blue Ridge province, Virginia. Geology, 1998, 26, 623.	2.0	12

#	Article	IF	Citations
73	Secondary tiering on crinoids from the Waldron Shale (Silurian: Wenlockian) of Indiana. Journal of Paleontology, 1998, 72, 887-894.	0.5	28
74	The composition and weathering of the continents over geologic time. Geochemical Perspectives Letters, 0, , 21-26.	1.0	27