

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	Feedback between surface and deep processes: Insight from time series analysis of sedimentary record. <i>Earth and Planetary Science Letters</i> , 2022, 579, 117352.	4.4	7
2	Macrostratigraphy: Insights into Cyclic and Secular Evolution of the Earth-Life System. <i>Annual Review of Earth and Planetary Sciences</i> , 2022, 50, 419-449.	11.0	8
3	Pyrite mega-analysis reveals modes of anoxia through geological time. <i>Science Advances</i> , 2022, 8, eabj5687.	10.3	11
4	Curation and Analysis of Global Sedimentary Geochemical Data to Inform Earth History. <i>GSA Today</i> , 2021, 31, 4-10.	2.0	9
5	Igneous rock area and age in continental crust. <i>Geology</i> , 2021, 49, 1235-1239.	4.4	6
6	The Sedimentary Geochemistry and Paleoenvironments Project. <i>Geobiology</i> , 2021, 19, 545-556.	2.4	26
7	Demo of marius. <i>Proceedings of the VLDB Endowment</i> , 2021, 14, 2759-2762.	3.8	2
8	Authigenic carbonate burial in the Late Devonian–Early Mississippian Bakken Formation (Williston) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 3.1	3.1	8
9	High Spatial-resolution Assessment of Diagenesis and Primary Isotopic Variability in Maastrichtian Molluscan Carbonates from Antarctica. <i>Microscopy and Microanalysis</i> , 2020, 26, 300-301.	0.4	1
10	Large isotopic variability at the micron-scale in $\delta^{13}C$ -Shuram TM excursion carbonates from South Australia. <i>Earth and Planetary Science Letters</i> , 2020, 538, 116211.	4.4	27
11	Fossil burrow assemblage, not mangrove roots: reinterpretation of the main whale-bearing layer in the late Eocene of Wadi Al-Hitan, Egypt. <i>Palaeobiodiversity and Palaeoenvironments</i> , 2019, 99, 143-158.	1.5	4
12	Neoproterozoic glacial origin of the Great Unconformity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1136-1145.	7.1	100
13	Influence of increasing carbonate saturation in Atlantic bottom water during the late Miocene. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019, 518, 134-142.	2.3	7
14	Macrostrat: A Platform for Geological Data Integration and Deep-Time Earth Crust Research. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 1393-1409.	2.5	57
15	Intelligent systems for geosciences. <i>Communications of the ACM</i> , 2018, 62, 76-84.	4.5	71
16	Ion microprobe-measured stable isotope evidence for ammonite habitat and life mode during early ontogeny. <i>Paleobiology</i> , 2018, 44, 684-708.	2.0	21
17	Nature of the sedimentary rock record and its implications for Earth system evolution. <i>Emerging Topics in Life Sciences</i> , 2018, 2, 125-136.	2.6	29
18	We need a global comprehensive stratigraphic database: here's a start. <i>The Sedimentary Record</i> , 2018, 16, 4-9.	0.6	7

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19	Sediment cycling on continental and oceanic crust. <i>Geology</i> , 2017, 45, 323-326.	4.4	58
20	Plate tectonic regulation of global marine animal diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5653-5658.	7.1	149
21	The rise and fall of stromatolites in shallow marine environments. <i>Geology</i> , 2017, 45, 487-490.	4.4	84
22	Atmospheric oxygenation driven by unsteady growth of the continental sedimentary reservoir. <i>Earth and Planetary Science Letters</i> , 2017, 460, 68-75.	4.4	62
23	Response by Shanan E. Peters for the presentation of the 2014 Charles Schuchert Award of the Paleontological Society. <i>Journal of Paleontology</i> , 2017, 91, 1328-1329.	0.8	0
24	What's Your Delta? EarthRates™ A New NSF Funded Research Coordination Network for Linking Scales Across the Sedimentary Crust. <i>The Sedimentary Record</i> , 2017, 15, 4-8.	0.6	2
25	A New Tool for Deep-Down Data Mining. <i>Eos</i> , 2017, , .	0.1	1
26	Delayed fungal evolution did not cause the Paleozoic peak in coal production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2442-2447.	7.1	107
27	The Paleobiology Database application programming interface. <i>Paleobiology</i> , 2016, 42, 1-7.	2.0	81
28	Oxygen Isotope Variability within Nautilus Shell Growth Bands. <i>PLoS ONE</i> , 2016, 11, e0153890.	2.5	38
29	DigitalCrust – a 4D data system of material properties for transforming research on crustal fluid flow. <i>Geofluids</i> , 2015, 15, 372-379.	0.7	13
30	Macroevolutionary History of the Planktic Foraminifera. <i>Annual Review of Earth and Planetary Sciences</i> , 2015, 43, 139-166.	11.0	65
31	paleobioDB: an R package for downloading, visualizing and processing data from the Paleobiology Database. <i>Ecography</i> , 2015, 38, 419-425.	4.5	28
32	Bringing Paleontology's "Dark Data"™ to Light. <i>The Paleontological Society Special Publications</i> , 2014, 13, 4-6.	0.0	0
33	A Machine Reading System for Assembling Synthetic Paleontological Databases. <i>PLoS ONE</i> , 2014, 9, e113523.	2.5	75
34	Oceanographic controls on the diversity and extinction of planktonic foraminifera. <i>Nature</i> , 2013, 493, 398-401.	27.8	48
35	Back to bedrock for paleobiology. <i>Trends in Ecology and Evolution</i> , 2013, 28, 452-453.	8.7	0
36	Basin-scale cyclostratigraphy of the Green River Formation, Wyoming. <i>Bulletin of the Geological Society of America</i> , 2013, 125, 216-228.	3.3	56

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37	Climate change and the selective signature of the Late Ordovician mass extinction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6829-6834.	7.1	138
38	Large-scale glaciation and deglaciation of Antarctica during the late Eocene: REPLY. <i>Geology</i> , 2012, 40, e255-e255.	4.4	8
39	Storm and fair-weather wave base: A relevant distinction?. <i>Geology</i> , 2012, 40, 511-514.	4.4	102
40	Formation of the "Great Unconformity" as a trigger for the Cambrian explosion. <i>Nature</i> , 2012, 484, 363-366.	27.8	265
41	Sulfate Burial Constraints on the Phanerozoic Sulfur Cycle. <i>Science</i> , 2012, 337, 331-334.	12.6	130
42	Stratigraphic distribution of marine fossils in North America. <i>Geology</i> , 2011, 39, 259-262.	4.4	18
43	A 56million year rhythm in North American sedimentation during the Phanerozoic. <i>Earth and Planetary Science Letters</i> , 2011, 303, 174-180.	4.4	60
44	Macrostratigraphy and macroevolution in marine environments: testing the common-cause hypothesis. <i>Geological Society Special Publication</i> , 2011, 358, 95-104.	1.3	23
45	Phanerozoic Earth System Evolution and Marine Biodiversity. <i>Science</i> , 2011, 334, 1121-1124.	12.6	194
46	Covariation in macrostratigraphic and macroevolutionary patterns in the marine record of North America. <i>Bulletin of the Geological Society of America</i> , 2011, 123, 620-630.	3.3	29
47	The fossil record and spatial structuring of environments and biodiversity in the Cenozoic of New Zealand. <i>Geological Society Special Publication</i> , 2011, 358, 105-122.	1.3	10
48	Regional Environmental Breadth Predicts Geographic Range and Longevity in Fossil Marine Genera. <i>PLoS ONE</i> , 2011, 6, e18946.	2.5	38
49	On the Relationship between Macrostratigraphy and Geological Processes: Quantitative Information Capture and Sampling Robustness. <i>Journal of Geology</i> , 2010, 118, 111-130.	1.4	15
50	Predation upon Hatchling Dinosaurs by a New Snake from the Late Cretaceous of India. <i>PLoS Biology</i> , 2010, 8, e1000322.	5.6	112
51	Large-scale glaciation and deglaciation of Antarctica during the Late Eocene. <i>Geology</i> , 2010, 38, 723-726.	4.4	45
52	The geological completeness of paleontological sampling in North America. <i>Paleobiology</i> , 2010, 36, 61-79.	2.0	59
53	The Marjuman trilobite <i>Cedarina Lochman</i> : thoracic morphology, systematics, and new species from western Utah and eastern Nevada, USA. <i>Zootaxa</i> , 2009, 2218, 35-58.	0.5	13
54	Global geologic maps are tectonic speedometers—Rates of rock cycling from area-age frequencies. <i>Bulletin of the Geological Society of America</i> , 2009, 121, 760-779.	3.3	55

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55	SEQUENCE STRATIGRAPHIC CONTROL ON PRESERVATION OF LATE EOCENE WHALES AND OTHER VERTEBRATES AT WADI AL-HITAN, EGYPT. <i>Palaios</i> , 2009, 24, 290-302.	1.3	51
56	Environmental determinants of extinction selectivity in the fossil record. <i>Nature</i> , 2008, 454, 626-629.	27.8	152
57	A sampling-adjusted macroevolutionary history for Ordovician-Early Silurian crinoids. <i>Paleobiology</i> , 2008, 34, 104-116.	2.0	58
58	Phanerozoic Trends in the Global Diversity of Marine Invertebrates. <i>Science</i> , 2008, 321, 97-100.	12.6	643
59	Macrostratigraphy and Its Promise for Paleobiology. <i>The Paleontological Society Papers</i> , 2008, 14, 205-231.	0.6	10
60	The Mechum River Formation, Virginia Blue Ridge: A Record of Neoproterozoic and Paleozoic Tectonics in Southeastern Laurentia. <i>Numerische Mathematik</i> , 2007, 307, 1-22.	1.4	9
61	The problem with the Paleozoic. <i>Paleobiology</i> , 2007, 33, 165-181.	2.0	63
62	Macrostratigraphy of North America. <i>Journal of Geology</i> , 2006, 114, 391-412.	1.4	94
63	GENUS RICHNESS IN CAMBRIAN-ORDOVICIAN BENTHIC MARINE COMMUNITIES IN NORTH AMERICA. <i>Palaios</i> , 2006, 21, 580-587.	1.3	13
64	Genus extinction, origination, and the durations of sedimentary hiatuses. <i>Paleobiology</i> , 2006, 32, 387-407.	2.0	92
65	A revised macroevolutionary history for Ordovician–Early Silurian crinoids. <i>Paleobiology</i> , 2005, 31, 538-551.	2.0	37
66	Geologic constraints on the macroevolutionary history of marine animals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 12326-12331.	7.1	265
67	Evenness of Cambrian–Ordovician benthic marine communities in North America. <i>Paleobiology</i> , 2004, 30, 325-346.	2.0	52
68	Relative abundance of Sepkoski's evolutionary faunas in Cambrian–Ordovician deep subtidal environments in North America. <i>Paleobiology</i> , 2004, 30, 543-560.	2.0	28
69	Determinants of extinction in the fossil record. <i>Nature</i> , 2002, 416, 420-424.	27.8	198
70	Biodiversity in the Phanerozoic: a reinterpretation. <i>Paleobiology</i> , 2001, 27, 583-601.	2.0	308
71	Species-Abundance Models: An Ecological Approach to Inferring Paleoenvironment and Resolving Paleoeological Change in the Waldron Shale (Silurian). <i>Palaios</i> , 1999, 14, 234.	1.3	16
72	Glacially influenced sedimentation in the late Neoproterozoic Mechum River Formation, Blue Ridge province, Virginia. <i>Geology</i> , 1998, 26, 623.	4.4	12

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73	Secondary tiering on crinoids from the Waldron Shale (Silurian: Wenlockian) of Indiana. Journal of Paleontology, 1998, 72, 887-894.	0.8	28
74	The composition and weathering of the continents over geologic time. Geochemical Perspectives Letters, 0, , 21-26.	5.0	27