

# Seth Finnegan

## List of Publications by Year in Descending Order

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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.

51  
papers

2,975  
citations

25  
h-index

52  
g-index

52  
ext. papers

3,569  
ext. citations

9.1  
avg, IF

5.27  
L-index

#	Paper	IF	Citations
51	Decreasing Phanerozoic extinction intensity as a consequence of Earth surface oxygenation and metazoan ecophysiology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	5
50	Controls on range shifts of coastal Californian bivalves during the peak of the last interglacial and baseline predictions for today. <i>Paleobiology</i> , <b>2021</b> , 47, 418-431	2.6	
49	Recognizing pulses of extinction from clusters of last occurrences. <i>Palaeontology</i> , <b>2021</b> , 64, 1-20	2.9	5
48	A high-resolution record of early Paleozoic climate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	20
47	Idiographic and nomothetic approaches to heterogeneity are complementary: Response to comments on Evaluating the influences of temperature, primary production, and evolutionary history on bivalve growth rates <i>Paleobiology</i> , <b>2020</b> , 46, 275-277	2.6	
46	Extinction intensity during Ordovician and Cenozoic glaciations explained by cooling and palaeogeography. <i>Nature Geoscience</i> , <b>2020</b> , 13, 65-70	18.3	15
45	Isotopes from fossil coronulid barnacle shells record evidence of migration in multiple Pleistocene whale populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 7377-7381	11.5	8
44	Unusually variable paleocommunity composition in the oldest metazoan fossil assemblages. <i>Paleobiology</i> , <b>2019</b> , 45, 235-245	2.6	8
43	Lipid biomarker and stable isotopic profiles through Early-Middle Ordovician carbonates from Spitsbergen, Norway. <i>Organic Geochemistry</i> , <b>2019</b> , 131, 5-18	3.1	10
42	Evaluating the influences of temperature, primary production, and evolutionary history on bivalve growth rates. <i>Paleobiology</i> , <b>2019</b> , 45, 405-420	2.6	13
41	Response by Seth Finnegan for the presentation of the 2018 Schuchert Award of the Paleontological Society. <i>Journal of Paleontology</i> , <b>2019</b> , 93, 1042-1043	1.1	
40	How predictable is extinction? Forecasting species survival at million-year timescales. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2019</b> , 374, 20190392	5.8	5
39	An extremely brief end Ordovician mass extinction linked to abrupt onset of glaciation. <i>Solid Earth Sciences</i> , <b>2019</b> , 4, 190-198	1.7	20
38	Records of carbon and sulfur cycling during the Silurian Ireviken Event in Gotland, Sweden. <i>Geochimica Et Cosmochimica Acta</i> , <b>2019</b> , 246, 299-316	5.5	29
37	Twelve thousand recent patellogastropods from a northeastern Pacific latitudinal gradient. <i>Scientific Data</i> , <b>2018</b> , 5, 170197	8.2	2
36	A paired apatite and calcite clumped isotope thermometry approach to estimating Cambro-Ordovician seawater temperatures and isotopic composition. <i>Geochimica Et Cosmochimica Acta</i> , <b>2018</b> , 224, 18-41	5.5	38
35	Extreme rarity of competitive exclusion in modern and fossil marine benthic ecosystems. <i>Geology</i> , <b>2018</b> , 46, 723-726	5	7

34	Quantifying the dark data in museum fossil collections as palaeontology undergoes a second digital revolution. <i>Biology Letters</i> , <b>2018</b> , 14,	3.6	32
33	Spatial variation in Late Ordovician glacioeustatic sea-level change. <i>Earth and Planetary Science Letters</i> , <b>2018</b> , 496, 1-9	5.3	11
32	Plate tectonic regulation of global marine animal diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 5653-5658	11.5	75
31	Energetic costs of calcification under ocean acidification. <i>Global Biogeochemical Cycles</i> , <b>2017</b> , 31, 866-877	5.9	29
30	Increase in predator-prey size ratios throughout the Phanerozoic history of marine ecosystems. <i>Science</i> , <b>2017</b> , 356, 1178-1180	33.3	34
29	Hierarchical complexity and the size limits of life. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2017</b> , 284,	4.4	22
28	Identifying the most surprising victims of mass extinction events: an example using Late Ordovician brachiopods. <i>Biology Letters</i> , <b>2017</b> , 13,	3.6	10
27	The Ordovician Succession Adjacent to Hinlopenstretet, Ny Friesland, Spitsbergen. <i>American Museum Novitates</i> , <b>2017</b> , 3882, 1-28	1.1	4
26	Formation of the Isthmus of Panama. <i>Science Advances</i> , <b>2016</b> , 2, e1600883	14.3	356
25	Body Size Evolution Across the Geozoic. <i>Annual Review of Earth and Planetary Sciences</i> , <b>2016</b> , 44, 523-553	5.3	40
24	Biogeographic and bathymetric determinants of brachiopod extinction and survival during the Late Ordovician mass extinction. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2016</b> , 283,	4.4	35
23	Extinctions. Paleontological baselines for evaluating extinction risk in the modern oceans. <i>Science</i> , <b>2015</b> , 348, 567-70	33.3	79
22	Marine extinction risk shaped by trait-environment interactions over 500 million years. <i>Global Change Biology</i> , <b>2015</b> , 21, 3595-607	11.4	25
21	Carbonate clumped isotope constraints on Silurian ocean temperature and seawater $\delta^{18}O$ . <i>Geochimica Et Cosmochimica Acta</i> , <b>2014</b> , 140, 241-258	5.5	65
20	Using Background Selectivity Patterns to Identify the 'Unexpected Victims' of Mass Extinction Events: An Example using Late Ordovician-Early Silurian Brachiopods. <i>The Paleontological Society Special Publications</i> , <b>2014</b> , 13, 54-54		
19	A signature of transience in bedrock river incision rates over timescales of 10 <sup>(4)</sup> -10 <sup>(7)</sup> years. <i>Nature</i> , <b>2014</b> , 505, 391-4	50.4	103
18	Climate change and the past, present, and future of biotic interactions. <i>Science</i> , <b>2013</b> , 341, 499-504	33.3	470
17	Lipid biomarkers record fundamental changes in the microbial community structure of tropical seas during the Late Ordovician Hirnantian glaciation. <i>Geology</i> , <b>2013</b> , 41, 127-130	5	46

16	Quantifying Seafood Through Time: Counting Calories in the Fossil Record. <i>The Paleontological Society Papers</i> , <b>2013</b> , 19, 21-50		5
15	Extinctions in ancient and modern seas. <i>Trends in Ecology and Evolution</i> , <b>2012</b> , 27, 608-17	10.9	182
14	A Lack of Attribution: Closing the Citation Gap Through a Reform of Citation and Indexing Practices. <i>Taxon</i> , <b>2012</b> , 61, 1349-1351	0.8	6
13	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> , <b>2012</b> , 109, 6829-34	11.5	111
12	Escargots through time: an energetic comparison of marine gastropod assemblages before and after the Mesozoic Marine Revolution. <i>Paleobiology</i> , <b>2011</b> , 37, 252-269	2.6	52
11	The magnitude and duration of Late Ordovician-Early Silurian glaciation. <i>Science</i> , <b>2011</b> , 331, 903-6	33.3	324
10	The evolutionary consequences of oxygenic photosynthesis: a body size perspective. <i>Photosynthesis Research</i> , <b>2011</b> , 107, 37-57	3.7	88
9	Theoretical diversity of the marine biosphere. <i>Paleobiology</i> , <b>2010</b> , 36, 1-15	2.6	7
8	Cardiocystella, a new cornute stylophoran from the Upper Cambrian Whipple Cave Formation, Eastern Nevada, USA. <i>Journal of Paleontology</i> , <b>2009</b> , 83, 307-312	1.1	7
7	Two-phase increase in the maximum size of life over 3.5 billion years reflects biological innovation and environmental opportunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 24-7	11.5	192
6	Body size, energetics, and the Ordovician restructuring of marine ecosystems. <i>Paleobiology</i> , <b>2008</b> , 34, 342-359	2.6	31
5	The Red Queen revisited: reevaluating the age selectivity of Phanerozoic marine genus extinctions. <i>Paleobiology</i> , <b>2008</b> , 34, 318-341	2.6	60
4	The effect of geographic range on extinction risk during background and mass extinction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 10506-11	11.5	180
3	Relative and absolute abundance of trilobites and rhynchonelliform brachiopods across the Lower/Middle Ordovician boundary, eastern Basin and Range. <i>Paleobiology</i> , <b>2005</b> , 31, 480-502	2.6	33
2	The Ordovician Radiation: A Follow-up to the Cambrian Explosion?. <i>Integrative and Comparative Biology</i> , <b>2003</b> , 43, 178-84	2.8	69
1	Vertical decoupling in Late Ordovician anoxia due to reorganization of ocean circulation. <i>Nature Geoscience</i> ,	18.3	7