

Jonathan L. Payne

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6989511/jonathan-l-payne-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

117
papers

6,410
citations

42
h-index

79
g-index

125
ext. papers

7,479
ext. citations

5.9
avg, IF

6.15
L-index

#	Paper	IF	Citations
117	Large perturbations of the carbon cycle during recovery from the end-permian extinction. <i>Science</i> , 2004 , 305, 506-9	33.3	593
116	Paleophysiology and end-Permian mass extinction. <i>Earth and Planetary Science Letters</i> , 2007 , 256, 295-313	13.3	496
115	Evidence for recurrent Early Triassic massive volcanism from quantitative interpretation of carbon isotope fluctuations. <i>Earth and Planetary Science Letters</i> , 2007 , 256, 264-277	5.3	255
114	End-Permian Mass Extinction in the Oceans: An Ancient Analog for the Twenty-First Century?. <i>Annual Review of Earth and Planetary Sciences</i> , 2012 , 40, 89-111	15.3	240
113	Greater vulnerability to warming of marine versus terrestrial ectotherms. <i>Nature</i> , 2019 , 569, 108-111	50.4	228
112	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> , 2009 , 106, 24-7	11.5	192
111	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> , 2007 , 104, 10506-11	11.5	180
110	Calcium isotope constraints on the end-Permian mass extinction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 8543-8	11.5	177
109	Permian-Triassic Boundary Sections from Shallow-Marine Carbonate Platforms of the Nanpanjiang Basin, South China: Implications for Oceanic Conditions Associated with the End-Permian Extinction and Its Aftermath. <i>Palaaios</i> , 2003 , 18, 138-152	1.6	172
108	Timing of recovery from the end-Permian extinction: Geochronologic and biostratigraphic constraints from south China. <i>Geology</i> , 2006 , 34, 1053	5	165
107	Marine anoxia and delayed Earth system recovery after the end-Permian extinction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 2360-5	11.5	160
106	Erosional truncation of uppermost Permian shallow-marine carbonates and implications for Permian-Triassic boundary events. <i>Bulletin of the Geological Society of America</i> , 2007 , 119, 771-784	3.9	153
105	Acidification, anoxia, and extinction: A multiple logistic regression analysis of extinction selectivity during the Middle and Late Permian. <i>Geology</i> , 2011 , 39, 1059-1062	5	134
104	$\delta^{13}\text{C}$ evidence that high primary productivity delayed recovery from end-Permian mass extinction. <i>Earth and Planetary Science Letters</i> , 2011 , 302, 378-384	5.3	131
103	Body size downgrading of mammals over the late Quaternary. <i>Science</i> , 2018 , 360, 310-313	33.3	120
102	Evolutionary dynamics of gastropod size across the end-Permian extinction and through the Triassic recovery interval. <i>Paleobiology</i> , 2005 , 31, 269-290	2.6	118
101	The Pattern and Timing of Biotic Recovery from the End-Permian Extinction on the Great Bank of Guizhou, Guizhou Province, China. <i>Palaaios</i> , 2006 , 21, 63-85	1.6	115

100	Long-term differences in extinction risk among the seven forms of rarity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012 , 279, 4969-76	4.4	114
99	Evidence for end-Permian ocean acidification from calcium isotopes in biogenic apatite. <i>Geology</i> , 2012 , 40, 743-746	5	114
98	High-resolution $\delta^{13}\text{C}_{\text{carb}}$ chemostratigraphy from latest Guadalupian through earliest Triassic in South China and Iran. <i>Earth and Planetary Science Letters</i> , 2013 , 375, 156-165	5.3	106
97	Temperature-dependent hypoxia explains biogeography and severity of end-Permian marine mass extinction. <i>Science</i> , 2018 , 362,	33.3	106
96	Animal evolution. Cope's rule in the evolution of marine animals. <i>Science</i> , 2015 , 347, 867-70	33.3	101
95	Ecological selectivity of the emerging mass extinction in the oceans. <i>Science</i> , 2016 , 353, 1284-6	33.3	99
94	The evolutionary consequences of oxygenic photosynthesis: a body size perspective. <i>Photosynthesis Research</i> , 2011 , 107, 37-57	3.7	88
93	Microbes, mud and methane: cause and consequence of recurrent Early Jurassic anoxia following the end-Triassic mass extinction. <i>Palaeontology</i> , 2013 , 56, 685-709	2.9	78
92	Carbon cycle perturbation and stabilization in the wake of the Triassic-Jurassic boundary mass-extinction event. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	75
91	An integrated biostratigraphy (conodonts and foraminifers) and chronostratigraphy (paleomagnetic reversals, magnetic susceptibility, elemental chemistry, carbon isotopes and geochronology) for the Permian-Upper Triassic strata of Guandao section, Nanpanjiang Basin, South China. <i>Earth and Planetary Science Letters</i> , 2017 , 463, 117-125	2.8	73
90	ENVIRONMENTAL AND BIOLOGICAL CONTROLS ON THE INITIATION AND GROWTH OF A MIDDLE TRIASSIC (ANISIAN) REEF COMPLEX ON THE GREAT BANK OF GUIZHOU, GUIZHOU PROVINCE, CHINA. <i>Palaios</i> , 2006 , 21, 325-343	1.6	71
89	Uranium isotope evidence for temporary ocean oxygenation in the aftermath of the Sturtian Snowball Earth. <i>Earth and Planetary Science Letters</i> , 2017 , 458, 282-292	5.3	68
88	END-PERMIAN MASS EXTINCTION OF LAGENIDE FORAMINIFERS IN THE SOUTHERN ALPS (NORTHERN ITALY). <i>Journal of Paleontology</i> , 2007 , 81, 415-434	1.1	66
87	Early and Middle Triassic trends in diversity, evenness, and size of foraminifers on a carbonate platform in south China: implications for tempo and mode of biotic recovery from the end-Permian mass extinction. <i>Paleobiology</i> , 2011 , 37, 409-425	2.6	65
86	Constraining the cause of the end-Guadalupian extinction with coupled records of carbon and calcium isotopes. <i>Earth and Planetary Science Letters</i> , 2014 , 396, 201-212	5.3	62
85	The influence of the biological pump on ocean chemistry: implications for long-term trends in marine redox chemistry, the global carbon cycle, and marine animal ecosystems. <i>Geobiology</i> , 2016 , 14, 207-19	4.3	62
84	The Red Queen revisited: reevaluating the age selectivity of Phanerozoic marine genus extinctions. <i>Paleobiology</i> , 2008 , 34, 318-341	2.6	60
83	The rise of oxygen and siderite oxidation during the Lomagundi Event. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 6562-7	11.5	54

82	Constraints on Early Triassic carbon cycle dynamics from paired organic and inorganic carbon isotope records. <i>Earth and Planetary Science Letters</i> , 2013 , 361, 429-435	5.3	52
81	Escargots through time: an energetic comparison of marine gastropod assemblages before and after the Mesozoic Marine Revolution. <i>Paleobiology</i> , 2011 , 37, 252-269	2.6	52
80	Record of the end-Permian extinction and Triassic biotic recovery in the Chongzuo-Pingguo platform, southern Nanpanjiang basin, Guangxi, south China. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007 , 252, 200-217	2.9	50
79	Energetic tradeoffs control the size distribution of aquatic mammals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4194-4199	11.5	49
78	Phanerozoic O and the early evolution of terrestrial animals. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018 , 285,	4.4	43
77	Uranium isotope evidence for an expansion of marine anoxia during the end-Triassic extinction. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 3093-3108	3.6	43
76	Metabolic dominance of bivalves predates brachiopod diversity decline by more than 150 million years. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014 , 281, 20133122	4.4	42
75	ENVIRONMENTAL CONTROLS ON THE GENESIS OF MARINE MICROBIALITES AND DISSOLUTION SURFACE ASSOCIATED WITH THE END-PERMIAN MASS EXTINCTION: NEW SECTIONS AND OBSERVATIONS FROM THE NANPANJIANG BASIN, SOUTH CHINA. <i>Palaios</i> , 2015 , 30, 529-552	1.6	41
74	Carbon cycle dynamics following the end-Triassic mass extinction: Constraints from paired $\delta^{13}\text{C}_{\text{carb}}$ and $\delta^{13}\text{C}_{\text{org}}$ records. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13,	3.6	40
73	Body Size Evolution Across the Geozoic. <i>Annual Review of Earth and Planetary Sciences</i> , 2016 , 44, 523-553	5.3	40
72	PLACUNOPSIS BIOHERMS: THE FIRST METAZOAN BUILDUPS FOLLOWING THE END-PERMIAN MASS EXTINCTION. <i>Palaios</i> , 2007 , 22, 17-23	1.6	39
71	Lower Triassic oolites of the Nanpanjiang Basin, south China: Facies architecture, giant ooids, and diagenesis: Implications for hydrocarbon reservoirs. <i>AAPG Bulletin</i> , 2012 , 96, 1389-1414	2.5	38
70	Within- and among-genus components of size evolution during mass extinction, recovery, and background intervals: a case study of Late Permian through Late Triassic foraminifera. <i>Paleobiology</i> , 2012 , 38, 627-643	2.6	31
69	Modeling the consequences of land plant evolution on silicate weathering. <i>Numerische Mathematik</i> , 2019 , 319, 1-43	5.3	29
68	Modelling the impact of pulsed CAMP volcanism on pCO ₂ and $\delta^{13}\text{C}$ across the Triassic-Jurassic transition. <i>Geological Magazine</i> , 2016 , 153, 252-270	2	29
67	Comparative size evolution of marine clades from the Late Permian through Middle Triassic. <i>Paleobiology</i> , 2016 , 42, 127-142	2.6	28
66	Late paleozoic fusulinoidean gigantism driven by atmospheric hyperoxia. <i>Evolution; International Journal of Organic Evolution</i> , 2012 , 66, 2929-39	3.8	28
65	The influence of seawater carbonate chemistry, mineralogy, and diagenesis on calcium isotope variations in Lower-Middle Triassic carbonate rocks. <i>Chemical Geology</i> , 2017 , 471, 13-37	4.2	28

64	Limited role of functional differentiation in early diversification of animals. <i>Nature Communications</i> , 2015 , 6, 6455	17.4	28
63	Controls on marine animal biomass through geological time. <i>Geobiology</i> , 2006 , 4, 1-10	4.3	25
62	A model for the decrease in amplitude of carbon isotope excursions across the Phanerozoic. <i>Numerische Mathematik</i> , 2017 , 317, 641-676	5.3	24
61	Global perturbation of the marine calcium cycle during the Permian-Triassic transition. <i>Bulletin of the Geological Society of America</i> , 2018 , 130, 1323-1338	3.9	24
60	Hierarchical complexity and the size limits of life. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017 , 284,	4.4	22
59	The accelerating influence of humans on mammalian macroecological patterns over the late Quaternary. <i>Quaternary Science Reviews</i> , 2019 , 211, 1-16	3.9	22
58	Patterns of basin fill in Triassic turbidites of the Nanpanjiang basin: implications for regional tectonics and impacts on carbonate-platform evolution. <i>Basin Research</i> , 2015 , 27, 587-612	3.2	22
57	Normal giants? Temporal and latitudinal shifts of Palaeozoic marine invertebrate gigantism and global change. <i>Lethaia</i> , 2015 , 48, 267-288	1.3	21
56	Geochemical, biostratigraphic, and high-resolution geochronological constraints on the waning stage of Emeishan Large Igneous Province. <i>Bulletin of the Geological Society of America</i> , 2020 , 132, 1969-1986	3.8	20
55	Additive effects of acidification and mineralogy on calcium isotopes in Triassic/Jurassic boundary limestones. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 113-124	3.6	19
54	Phanerozoic trends in brachiopod body size from synoptic data. <i>Paleobiology</i> , 2015 , 41, 491-501	2.6	19
53	Phylogenetic signal in extinction selectivity in Devonian terebratulide brachiopods. <i>Paleobiology</i> , 2014 , 40, 675-692	2.6	18
52	Local and global abundance associated with extinction risk in late Paleozoic and early Mesozoic gastropods. <i>Paleobiology</i> , 2011 , 37, 616-632	2.6	17
51	Extinction intensity, selectivity and their combined macroevolutionary influence in the fossil record. <i>Biology Letters</i> , 2016 , 12,	3.6	17
50	A Cretaceous peak in family-level insect diversity estimated with mark-recapture methodology. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019 , 286, 20192054	4.4	16
49	A shift in the long-term mode of foraminiferan size evolution caused by the end-Permian mass extinction. <i>Evolution; International Journal of Organic Evolution</i> , 2013 , 67, 816-27	3.8	15
48	Drowning of the Triassic Yangtze Platform, South China, By Tectonic Subsidence Into Toxic Deep Waters of An Anoxic Basin. <i>Journal of Sedimentary Research</i> , 2015 , 85, 419-444	2.1	14
47	Erosional truncation of uppermost Permian shallow-marine carbonates and implications for Permian-Triassic boundary events: Reply. <i>Bulletin of the Geological Society of America</i> , 2009 , 121, 957-959	3.9	14

46	Evaluating the influences of temperature, primary production, and evolutionary history on bivalve growth rates. <i>Paleobiology</i> , 2019 , 45, 405-420	2.6	13
45	Factors controlling carbonate platform asymmetry: Preliminary results from the Great Bank of Guizhou, an isolated Permian-Triassic Platform in the Nanpanjiang Basin, south China. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012 , 315-316, 158-171	2.9	13
44	Life in Triassic Oceans: Links Between Planktonic and Benthic Recovery and Radiation 2007 , 165-189		13
43	Ecologically diverse clades dominate the oceans via extinction resistance. <i>Science</i> , 2020 , 367, 1035-1038	3.3	12
42	The end-Triassic negative $\delta^{13}\text{C}$ excursion: A lithologic test. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014 , 412, 177-186	2.9	11
41	Size-frequency distributions along a latitudinal gradient in Middle Permian fusulinoideans. <i>PLoS ONE</i> , 2012 , 7, e38603	3.7	11
40	EARLY TRIASSIC MICROBIAL SPHEROIDS IN THE VIRGIN LIMESTONE MEMBER OF THE MOENKOPI FORMATION, NEVADA, USA. <i>Palaaios</i> , 2009 , 24, 131-136	1.6	11
39	Fully automated carbonate petrography using deep convolutional neural networks. <i>Marine and Petroleum Geology</i> , 2020 , 122, 104687	4.7	10
38	Body size, sampling completeness, and extinction risk in the marine fossil record. <i>Paleobiology</i> , 2020 , 46, 23-40	2.6	10
37	Physiological constraints on body size distributions in Crocodyliformes. <i>Evolution; International Journal of Organic Evolution</i> , 2020 , 74, 245-255	3.8	9
36	Ecophenotypic responses of benthic foraminifera to oxygen availability along an oxygen gradient in the California Borderland. <i>Marine Ecology</i> , 2017 , 38, e12430	1.4	8
35	Timing of recovery from the end-Permian extinction: Geochronologic and biostratigraphic constraints from south China: COMMENT AND REPLY: REPLY. <i>Geology</i> , 2007 , 35, e137-e138	5	8
34	Applicability and resolving power of statistical tests for simultaneous extinction events in the fossil record. <i>Paleobiology</i> , 2003 , 29, 37-51	2.6	8
33	Is biodiversity energy-limited or unbounded? A test in fossil and modern bivalves. <i>Paleobiology</i> , 2018 , 44, 385-401	2.6	7
32	Physicochemical controls on biogeographic variation of benthic foraminiferal test size and shape. <i>Paleobiology</i> , 2016 , 42, 595-611	2.6	7
31	Constraints on the adult-offspring size relationship in protists. <i>Evolution; International Journal of Organic Evolution</i> , 2013 , 67, 3537-44	3.8	7
30	Implications of giant ooids for the carbonate chemistry of Early Triassic seawater. <i>Geology</i> , 2021 , 49, 156-161	5	7
29	The evolution of complex life and the stabilization of the Earth system. <i>Interface Focus</i> , 2020 , 10, 20190106	10.6	6

28	Giant sector-collapse structures (scalloped margins) of the Yangtze Platform and Great Bank of Guizhou, China: Implications for genesis of collapsed carbonate platform margin systems. <i>Sedimentology</i> , 2020 , 67, 3167	3.3	6
27	A Lack of Attribution: Closing the Citation Gap Through a Reform of Citation and Indexing Practices. <i>Taxon</i> , 2012 , 61, 1349-1351	0.8	6
26	Lower Cretaceous Alisitos Formation at Punta San Isidro: Coastal sedimentation and volcanism. <i>Ciencias Marinas</i> , 2004 , 30, 365-380	1.7	6
25	A framework for the integrated analysis of the magnitude, selectivity, and biotic effects of extinction and origination. <i>Paleobiology</i> , 2020 , 46, 1-22	2.6	6
24	The Late Permian to Late Triassic Great Bank of Guizhou: An isolated carbonate platform in the Nanpanjiang Basin of Guizhou Province, China. <i>AAPG Bulletin</i> , 2017 , 101, 553-562	2.5	5
23	End-Guadalupian extinction of larger fusulinids in central Iran and implications for the global biotic crisis. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020 , 550, 109743	2.9	5
22	Controls on carbonate platform architecture and reef recovery across the Palaeozoic to Mesozoic transition: A high-resolution analysis of the Great Bank of Guizhou. <i>Sedimentology</i> , 2020 , 67, 3119	3.3	5
21	TAPHONOMIC BIAS OF SELECTIVE SILICIFICATION REVEALED BY PAIRED PETROGRAPHIC AND INSOLUBLE RESIDUE ANALYSIS. <i>Palaaios</i> , 2015 , 30, 620-626	1.6	5
20	THE GEOZOIC SUPEREON. <i>Palaaios</i> , 2011 , 26, 251-255	1.6	4
19	Generating and testing hypotheses about the fossil record of insect herbivory with a theoretical ecospace. <i>Review of Palaeobotany and Palynology</i> , 2022 , 297, 104564	1.7	4
18	Respiratory medium and circulatory anatomy constrain size evolution in marine macrofauna. <i>Paleobiology</i> , 2020 , 46, 288-303	2.6	3
17	Refined foraminiferal biostratigraphy of upper Wordian, Capitanian, and Wuchiapingian strata in Hambast Valley, Abadeh region (Iran), and paleobiogeographic implications. <i>Geological Journal</i> , 2020 , 55, 6255-6279	1.7	3
16	REPLY: PERMIAN-TRIASSIC MICROBIALITE AND DISSOLUTION SURFACE ENVIRONMENTAL CONTROLS ON THE GENESIS OF MARINE MICROBIALITES AND DISSOLUTION SURFACE ASSOCIATED WITH THE END-PERMIAN MASS EXTINCTION: NEW SECTIONS AND OBSERVATIONS FROM THE NANPANJIANG BASIN, SOUTH CHINA. <i>Palaaios</i> , 2016 , 31, 118-121	1.6	3
15	Triassic Tank84-113		3
14	Environmental influence on growth history in marine benthic foraminifera. <i>Paleobiology</i> , 2018 , 44, 736-757	3.5	3
13	Biotic and Abiotic Controls on the Phanerozoic History of Marine Animal Biodiversity. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2021 , 52,	13.5	3
12	Interactions between sediment production and transport in the geometry of carbonate platforms: Insights from forward modeling of the Great Bank of Guizhou (Early to Middle Triassic), south China. <i>Marine and Petroleum Geology</i> , 2020 , 118, 104416	4.7	2
11	Origination and early evolution of Involutinida in the aftermath of the end-Permian mass extinction: Praetriadodiscus n. gen., and two new species. <i>Revue De Micropaleontologie</i> , 2017 , 60, 573-584	1.4	2

10	Mass extinctions alter extinction and origination dynamics with respect to body size. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021 , 288, 20211681	4.4	2
9	Ecological Filtering and Exaptation in the Evolution of Marine Snakes. <i>American Naturalist</i> , 2021 , 198, 506-521	3.7	2
8	Quantitative evaluation of the roles of ocean chemistry and climate on ooid size across the Phanerozoic: Global versus local controls. <i>Sedimentology</i> ,	3.3	2
7	Proliferation of Chondrodonta as a proxy of environmental instability at the onset of OAE1a: Insights from shallow-water limestones of the Apulia Carbonate Platform. <i>Sedimentology</i> ,	3.3	1
6	Generating and testing hypotheses about the fossil record of insect herbivory with a theoretical ecospace		1
5	A general model for growth trajectories of linear carbonate platforms. <i>Journal of Sedimentary Research</i> , 2020 , 90, 1139-1155	2.1	0
4	Triassic Foraminifera from the Great Bank of Guizhou, Nanpanjiang Basin, south China: taxonomic account, biostratigraphy, and implications for recovery from end-Permian mass extinction. <i>Journal of Paleontology</i> , 1-53	1.1	0
3	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> , 2020 , 46, 275-277	2.6	
2	Response by Jonathan Payne for the presentation of the 2015 Schuchert Award of the Paleontological Society. <i>Journal of Paleontology</i> , 2017 , 91, 1342-1343	1.1	
1	Lepidoptera demonstrate the relevance of Murray's Law to circulatory systems with tidal flow. <i>BMC Biology</i> , 2021 , 19, 204	7.3	