Douglas H Erwin

List of Publications by Year
in descending order

124	12,228	36303 51	26613 107
papers	citations	h-index	g-index

209	209	209	10319
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Cambrian Conundrum: Early Divergence and Later Ecological Success in the Early History of Animals. Science, 2011, 334, 1091-1097.	12.6	1,055
2	Gene Regulatory Networks and the Evolution of Animal Body Plans. Science, 2006, 311, 796-800.	12.6	997
3	Calibrating the End-Permian Mass Extinction. Science, 2011, 334, 1367-1372.	12.6	648
4	The Permoâ€"Triassic extinction. Nature, 1994, 367, 231-236.	27.8	626
5	The origin and evolution of cell types. Nature Reviews Genetics, 2016, 17, 744-757.	16.3	572
6	Snowball Earth climate dynamics and Cryogenian geology-geobiology. Science Advances, 2017, 3, e1600983.	10.3	424
7	The evolution of hierarchical gene regulatory networks. Nature Reviews Genetics, 2009, 10, 141-148.	16.3	411
8	Niche Construction Theory: A Practical Guide for Ecologists. Quarterly Review of Biology, 2013, 88, 3-28.	0.1	325
9	DISPARITY: MORPHOLOGICAL PATTERN AND DEVELOPMENTAL CONTEXT. Palaeontology, 2007, 50, 57-73.	2.2	298
10	A high-resolution summary of Cambrian to Early Triassic marine invertebrate biodiversity. Science, 2020, 367, 272-277.	12.6	298
11	Abrupt and Gradual Extinction Among Late Permian Land Vertebrates in the Karoo Basin, South Africa. Science, 2005, 307, 709-714.	12.6	281
12	Macroevolution of ecosystem engineering, niche construction and diversity. Trends in Ecology and Evolution, 2008, 23, 304-310.	8.7	248
13	AUTECOLOGY AND THE FILLING OF ECOSPACE: KEY METAZOAN RADIATIONS. Palaeontology, 2007, 50, 1-22.	2.2	240
14	The last common bilaterian ancestor. Development (Cambridge), 2002, 129, 3021-3032.	2.5	239
15	The end and the beginning: recoveries from mass extinctions. Trends in Ecology and Evolution, 1998, 13, 344-349.	8.7	236
16	The end of the Ediacara biota: Extinction, biotic replacement, or Cheshire Cat?. Gondwana Research, 2013, 23, 558-573.	6.0	220
17	Compilation and Network Analyses of Cambrian Food Webs. PLoS Biology, 2008, 6, e102.	5.6	211
18	Earthâ€™s oxygen cycle and the evolution of animal life. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8933-8938.	7.1	205

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19	Possible animal-body fossils in pre-Marinoan limestones from South Australia. Nature Geoscience, 2010, 3, 653-659.	12.9	180
20	A COMPARATIVE STUDY OF DIVERSIFICATION EVENTS: THE EARLY PALEOZOIC VERSUS THE MESOZOIC. Evolution; International Journal of Organic Evolution, 1987, 41, 1177-1186.	2.3	169
21	Comparative genomics explains the evolutionary success of reef-forming corals. ELife, 2016, 5, .	6.0	169
22	Climate as a Driver of Evolutionary Change. Current Biology, 2009, 19, R575-R583.	3.9	157
23	Ediacaran Extinction and Cambrian Explosion. Trends in Ecology and Evolution, 2018, 33, 653-663.	8.7	152
24	Macroevolution is more than repeated rounds of microevolution. Evolution & Development, 2000, 2, 78-84.	2.0	149
25	The Evolution and Distribution of Species Body Size. Science, 2008, 321, 399-401.	12.6	147
26	Developmental Evolution of Metazoan Bodyplans: The Fossil Evidence. Developmental Biology, 1996, 173, 373-381.	2.0	145
27	High-resolution SIMS oxygen isotope analysis on conodont apatite from South China and implications for the end-Permian mass extinction. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 448, 26-38.	2.3	133
28	A sudden end-Permian mass extinction in South China. Bulletin of the Geological Society of America, 2019, 131, 205-223.	3.3	127
29	Novelty and Innovation in the History of Life. Current Biology, 2015, 25, R930-R940.	3.9	117
30	When and how did the terrestrial mid-Permian mass extinction occur? Evidence from the tetrapod record of the Karoo Basin, South Africa. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150834.	2.6	115
31	Ecological drivers of the Ediacaran-Cambrian diversification of Metazoa. Evolutionary Ecology, 2012, 26, 417-433.	1.2	107
32	Biotic replacement and mass extinction of the Ediacara biota. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151003.	2.6	103
33	Early metazoan life: divergence, environment and ecology. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20150036.	4.0	98
34	Diversity, Dilemmas, and Monopolies of Niche Construction. American Naturalist, 2009, 173, 26-40.	2.1	93
35	A preliminary classification of evolutionary radiations. Historical Biology, 1992, 6, 133-147.	1.4	90
36	Early origin of the bilaterian developmental toolkit. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 2253-2261.	4.0	89

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37	Recovery after mass extinction: evolutionary assembly in largeâ€“scale biosphere dynamics. Philosophical Transactions of the Royal Society B: Biological Sciences, 2002, 357, 697-707.	4.0	87
38	Rarity in mass extinctions and the future of ecosystems. Nature, 2015, 528, 345-351.	27.8	87
39	What can we learn about ecology and evolution from the fossil record?. Trends in Ecology and Evolution, 2006, 21, 322-328.	8.7	85
40	On the coâ€evolution of surface oxygen levels and animals. Geobiology, 2020, 18, 260-281.	2.4	82
41	Quantifying the process and abruptness of the end-Permian mass extinction. Paleobiology, 2014, 40, 113-129.	2.0	80
42	A Comparative Study of Diversification Events: The Early Paleozoic Versus the Mesozoic. Evolution; International Journal of Organic Evolution, 1987, 41, 1177.	2.3	71
43	Innovation not recovery: dynamic redox promotes metazoan radiations. Biological Reviews, 2018, 93, 863-873.	10.4	71
44	The origin of animal body plans: a view from fossil evidence and the regulatory genome. Development (Cambridge), 2020, 147, .	2.5	69
45	Silica-replaced fossils through the Phanerozoic. Geology, 1997, 25, 1031.	4.4	63
46	Cambrian Naraoiids (Arthropoda): Morphology, Ontogeny, Systematics, and Evolutionary Relationships. Journal of Paleontology, 2007, 81, 1-52.	0.8	63
47	Felsic volcanism as a factor driving the end-Permian mass extinction. Science Advances, 2021, 7, eabh1390.	10.3	63
48	Extinction as the loss of evolutionary history. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11520-11527.	7.1	61
49	The last common bilaterian ancestor. Development (Cambridge), 2002, 129, 3021-32.	2.5	60
50	EVOLUTION: Insights into Innovation. Science, 2004, 304, 1117-1119.	12.6	59
51	The challenges and scope of theoretical biology. Journal of Theoretical Biology, 2011, 276, 269-276.	1.7	56
52	The Origin of Bodyplans. American Zoologist, 1999, 39, 617-629.	0.7	52
53	A mixed Ediacaran-metazoan assemblage from the Zaris Sub-basin, Namibia. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 459, 198-208.	2.3	52
54	Dynamic response of Permian brachiopod communities to long-term environmental change. Nature, 2004, 428, 738-741.	27.8	46

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55	Elvis Taxa. Palaios, 1993, 8, 623.	1.3	42
56	DATES AND RATES: Temporal Resolution in the Deep Time Stratigraphic Record. Annual Review of Earth and Planetary Sciences, 2006, 34, 569-590.	11.0	42
57	A conceptual framework of evolutionary novelty and innovation. Biological Reviews, 2021, 96, 1-15.	10.4	42
58	Metazoan phylogeny and the Cambrian radiation. Trends in Ecology and Evolution, 1991, 6, 131-134.	8.7	40
59	MACROEVOLUTION: Seeds of Diversity. Science, 2005, 308, 1752-1753.	12.6	39
60	CRITICAL ISSUES OF SCALE IN PALEOECOLOGY. Palaios, 2009, 24, 1-4.	1.3	39
61	Carboniferous-Triassic gastropod diversity patterns and the Permo-Triassic mass extinction. Paleobiology, 1990, 16, 187-203.	2.0	38
62	Regional Paleoecology of Permian Gastropod Genera, Southwestern United States and the End-Permian Mass Extinction. Palaios, 1989, 4, 424.	1.3	37
63	FOSSIL FISHES FROM THE LOWER TRIASSIC OF MAJIASHAN, CHAOHU, ANHUI PROVINCE, CHINA. Journal of Paleontology, 2006, 80, 146-161.	0.8	37
64	Evolutionary uniformitarianism. Developmental Biology, 2011, 357, 27-34.	2.0	37
65	The origin of metazoan development: a palaeobiological perspective. Biological Journal of the Linnean Society, 1993, 50, 255-274.	1.6	35
66	Simple model of recovery dynamics after mass extinction. Journal of Theoretical Biology, 2010, 267, 193-200.	1.7	35
67	Patterns of convergence in general shell form among Paleozoic gastropods. Paleobiology, 2006, 32, 316-337.	2.0	33
68	Was the Ediacaranâ€“Cambrian radiation a unique evolutionary event?. Paleobiology, 2015, 41, 1-15.	2.0	32
69	Impact at the Permo-Triassic Boundary: A Critical Evaluation. Astrobiology, 2003, 3, 67-74.	3.0	30
70	Late Triassic (Late Norian) gastropods from the Wallowa Terrane (Idaho, USA). Palaontologische Zeitschrift, 2004, 78, 361-416.	1.6	29
71	Increasing returns, ecological feedback and the Early Triassic recovery. Palaeoworld, 2007, 16, 9-15.	1.1	29
72	Recoveries and Radiations: Gastropods After the Permo-Triassic Mass Extinction. Geological Society Special Publication, 1996, 102, 223-229.	1.3	28

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73	Evolutionary innovation and stability in animal gene networks. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2010, 314B, 182-186.	1.3	28
74	Novelties That Change Carrying Capacity. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2012, 318, 460-465.	1.3	28
75	The topology of evolutionary novelty and innovation in macroevolution. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160422.	4.0	26
76	Progress, problems and prospects: An overview of the Guadalupian Series of South China and North America. Earth-Science Reviews, 2020, 211, 103412.	9.1	26
77	CHANGE AND STABILITY IN PERMIAN BRACHIOPOD COMMUNITIES FROM WESTERN TEXAS. Palaios, 2009, 24, 27-40.	1.3	23
78	Ecospace Utilization During the Ediacaran Radiation and the Cambrian Eco-explosion. Topics in Geobiology, 2011, , 111-133.	0.5	23
79	Life's downs and ups. Nature, 2000, 404, 129-130.	27.8	22
80	Testing for causal relationships between large pyroclastic volcanic eruptions and mass extinctions. Geophysical Research Letters, 1992, 19, 893-896.	4.0	19
81	A public goods approach to major evolutionary innovations. Geobiology, 2015, 13, 308-315.	2.4	19
82	High-precision U-Pb zircon age constraints on the Guadalupian in West Texas, USA. Palaeogeography, Palaeoclimatology, Palaeoecology, 2020, 548, 109668.	2.3	19
83	Developmental push or environmental pull? The causes of macroevolutionary dynamics. History and Philosophy of the Life Sciences, 2017, 39, 36.	1.1	16
84	EvoChromo: towards a synthesis of chromatin biology and evolution. Development (Cambridge), 2019, 146, .	2.5	16
85	The genus Glyptospira (Gastropoda: Trochacea) from the Permian of the southwestern United States. Journal of Paleontology, 1988, 62, 868-879.	0.8	14
86	Molecular clocks, molecular phylogenies and the origin of phyla. Lethaia, 1989, 22, 251-257.	1.4	14
87	Prospects for a General Theory of Evolutionary Novelty. Journal of Computational Biology, 2019, 26, 735-744.	1.6	14
88	Origin of Metazoan Developmental Toolkits and Their Expression in the Fossil Record. Advances in Marine Genomics, 2015, , 47-77.	1.2	14
89	GASTROPODS FROM THE PERMIAN OF GUANGXI AND YUNNAN PROVINCES, SOUTH CHINA. Journal of Paleontology, 2002, 76, 1-49.	0.8	13
90	Battenizyga, a new Early Triassic gastropod genus with a discussion of the caenogastropod evolution at the Permian/Triassic boundary. Palaontologische Zeitschrift, 2002, 76, 21-27.	1.6	13

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91	Temporal acuity and the rate and dynamics of mass extinctions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3203-3204.	7.1	13
92	Evolutionary dynamics of gene regulation. Current Topics in Developmental Biology, 2020, 139, 407-431.	2.2	12
93	Wonderful Ediacarans, wonderful cnidarians?. Evolution & Development, 2008, 10, 263-264.	2.0	11
94	A call to the custodians of deep time. Nature, 2009, 462, 282-283.	27.8	11
95	Chemical clues to the earliest animal fossils. Science, 2018, 361, 1198-1199.	12.6	11
96	Biospheric perturbations during Gondwanan times: From theNeoproterozoic-Cambrian radiation to the end-Permian crisis. Journal of African Earth Sciences, 1999, 28, 115-127.	2.0	9
97	Latitudinal diversity gradient dynamics during Carboniferous to Triassic icehouse and greenhouse climates. Geology, 2022, 50, 1166-1171.	4.4	9
98	The End-Permian mass extinction: What really happened and did it matter?. Trends in Ecology and Evolution, 1989, 4, 225-229.	8.7	8
99	Evolutionary contingency. Current Biology, 2006, 16, R825-R826.	3.9	8
100	Developmental processes in Ediacara macrofossils. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20203055.	2.6	7
101	The role of public goods in planetary evolution. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160359.	3.4	6
102	One Very Long Argument. Biology and Philosophy, 2004, 19, 17-28.	1.4	5
103	Macroevolution: Dynamics ofÂDiversity. Current Biology, 2011, 21, R1000-R1001.	3.9	5
104	Ediacara growing pains: modular addition and development in <i>Dickinsonia costata</i>. Paleobiology, 2022, 48, 83-98.	2.0	5
105	New Late Triassic gastropods from the wallowa Terrane (Idaho) and their biogeographic significance. Facies, 2001, 45, 87-92.	1.4	4
106	The Evolution of Arthropod Body Plans: Integrating Phylogeny, Fossils, and Developmentâ€"An Introduction to the Symposium. Integrative and Comparative Biology, 2017, 57, 450-454.	2.0	4
107	Developmental capacity and the early evolution of animals. Journal of the Geological Society, 2021, 178, .	2.1	4
108	A LATE PERMIAN CHINESE GASTROPOD SPECIES, POSSIBLY LARVAL, IN THE MIDDLE PENNSYLVANIAN OF NEW MEXICO. Journal of Paleontology, 2004, 78, 420-423.	0.8	2

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109	Non-detection of C60 fullerene at two mass extinction horizons. Geochimica Et Cosmochimica Acta, 2016, 176, 18-25.	3.9	2
110	Eric Davidson and deep time. History and Philosophy of the Life Sciences, 2017, 39, 29.	1.1	1
111	The Global Stratotype Section and Point (GSSP) for the base of the Capitanian Stage (Guadalupian,) Tj ETQq1 1 0.784314 rgBT /Overlo	1.2	1
112	The Mother of Mass Extinctions. Palaios, 1991, 6, 517.	1.3	0
113	Presentation of the Charles Schuchert Award of the Paleontological Society to Charles R. Marshall. Journal of Paleontology, 2000, 74, 758-758.	0.8	0
114	PRESENTATION OF THE CHARLES SCHUCHERT AWARD OF THE PALEONTOLOGICAL SOCIETY TO CHARLES R. MARSHALL. Journal of Paleontology, 2000, 74, 758-760.	0.8	0
115	Opportunities and Challenges of a Highly Resolved Geological Timescale. The Paleontological Society Papers, 2006, 12, 171-180.	0.6	0
116	Endless Forms Most Beautiful. Sean B. Carroll. (2005, W. W. Norton.) $25.95. ISBN 0-393-06016-0. Artificial Life, 2007, 13, 87-89.	1.3	0
117	Otherworldly Earths: The Future of Deep Time Research. Eos, 2011, 92, 55-55.	0.1	0
118	Eric Davidson (1937â€"2015). Current Biology, 2015, 25, R968-R969.	3.9	0
119	David M. Raup (1933â€"2015). Nature, 2015, 524, 36-36.	27.8	0
120	Eric Davidson (1937â€"2015). Science, 2015, 350, 517-517.	12.6	0
121	The Origin of Higher Taxa: Palaeobiological, Developmental and Ecological Perspectives.â€" by T. S. Kemp.. Systematic Biology, 2016, 65, 558-559.	5.6	0
122	Tempos and modes of collectivity in the history of life. Theory in Biosciences, 2019, 140, 343-351.	1.4	0
123	Biotic Reshufflings: <i>The Paleobiogeography of China</i> . Yin Hongfu, Ed. Oxford University Press, New York, 1994. xiv, 370 pp., illus. $120 or Â£80. Oxford Biogeography Series, 8. Translated from the Chinese edition (1988).. Science, 1995, 267, 2012-2012.	12.6	0
124	<i>The Invertebrate Tree of Life</i>. By Gonzalo Giribet and Gregory D. Edgecombe. Princeton (New) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Quarterly Review of Biology, 2020, 95, 336-337.	0.1	0