

Scott L Wing

List of Publications by Year in descending order

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116
papers

11,451
citations

34105

52
h-index

30087

103
g-index

121
all docs

121
docs citations

121
times ranked

9407
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing the Causes of Late Pleistocene Extinctions on the Continents. <i>Science</i> , 2004, 306, 70-75.	12.6	894
2	The Paleocene-Eocene Thermal Maximum: A Perturbation of Carbon Cycle, Climate, and Biosphere with Implications for the Future. <i>Annual Review of Earth and Planetary Sciences</i> , 2011, 39, 489-516.	11.0	722
3	Global patterns in leaf ¹³ C discrimination and implications for studies of past and future climate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 5738-5743.	7.1	690
4	When did the Anthropocene begin? A mid-twentieth century boundary level is stratigraphically optimal. <i>Quaternary International</i> , 2015, 383, 196-203.	1.5	546
5	Transient Floral Change and Rapid Global Warming at the Paleocene-Eocene Boundary. <i>Science</i> , 2005, 310, 993-996.	12.6	486
6	Sensitivity of leaf size and shape to climate: global patterns and paleoclimatic applications. <i>New Phytologist</i> , 2011, 190, 724-739.	7.3	445
7	Eocene continental climates and latitudinal temperature gradients. <i>Geology</i> , 1995, 23, 1044.	4.4	438
8	Paleobotanical Evidence for Near Present-Day Levels of Atmospheric CO ₂ During Part of the Tertiary. <i>Science</i> , 2001, 292, 2310-2313.	12.6	309
9	Production of n-alkyl lipids in living plants and implications for the geologic past. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 7472-7485.	3.9	278
10	Using fossil leaves as paleoprecipitation indicators: An Eocene example. <i>Geology</i> , 1998, 26, 203.	4.4	264
11	High Plant Diversity in Eocene South America: Evidence from Patagonia. <i>Science</i> , 2003, 300, 122-125.	12.6	263
12	Late Paleocene fossils from the Cerrejón Formation, Colombia, are the earliest record of Neotropical rainforest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 18627-18632.	7.1	256
13	ECOLOGICAL ASPECTS OF THE CRETACEOUS FLOWERING PLANT RADIATION. <i>Annual Review of Earth and Planetary Sciences</i> , 1998, 26, 379-421.	11.0	243
14	Sharply increased insect herbivory during the Paleocene–Eocene Thermal Maximum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1960-1964.	7.1	224
15	Scale and diversity of the physical technosphere: A geological perspective. <i>Infrastructure Asset Management</i> , 2017, 4, 9-22.	1.6	193
16	Evolution of the Earliest Horses Driven by Climate Change in the Paleocene-Eocene Thermal Maximum. <i>Science</i> , 2012, 335, 959-962.	12.6	188
17	Two massive, rapid releases of carbon during the onset of the Palaeocene–Eocene thermal maximum. <i>Nature Geoscience</i> , 2015, 8, 44-47.	12.9	188
18	Magnitude of the carbon isotope excursion at the Paleocene–Eocene thermal maximum: The role of plant community change. <i>Earth and Planetary Science Letters</i> , 2007, 262, 50-65.	4.4	178

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19	The fayum primate forest revisited. <i>Journal of Human Evolution</i> , 1982, 11, 603-632.	2.6	168
20	Implications of an exceptional fossil flora for Late Cretaceous vegetation. <i>Nature</i> , 1993, 363, 342-344.	27.8	163
21	Stratigraphic and Earth System approaches to defining the Anthropocene. <i>Earth's Future</i> , 2016, 4, 324-345.	6.3	162
22	Global Boundary Stratotype Section and Point (GSSP) for the Anthropocene Series: Where and how to look for potential candidates. <i>Earth-Science Reviews</i> , 2018, 178, 379-429.	9.1	153
23	The reflection of deciduous forest communities in leaf litter: implications for autochthonous litter assemblages from the fossil record. <i>Paleobiology</i> , 1992, 18, 30-49.	2.0	149
24	Holocene shifts in the assembly of plant and animal communities implicate human impacts. <i>Nature</i> , 2016, 529, 80-83.	27.8	147
25	The reciprocal interaction of angiosperm evolution and tetrapod herbivory. <i>Review of Palaeobotany and Palynology</i> , 1987, 50, 179-210.	1.5	145
26	History and causes of post-Laramide relief in the Rocky Mountain orogenic plateau. <i>Bulletin of the Geological Society of America</i> , 2006, 118, 393-405.	3.3	142
27	Plant and mammal diversity in the Paleocene to early Eocene of the Bighorn Basin. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1995, 115, 117-155.	2.3	138
28	Extinction at the end-Cretaceous and the origin of modern Neotropical rainforests. <i>Science</i> , 2021, 372, 63-68.	12.6	115
29	Computer vision cracks the leaf code. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3305-3310.	7.1	114
30	Early Eocene biotic and climatic change in interior western North America. <i>Geology</i> , 1991, 19, 1189.	4.4	112
31	Climate sensitivity to changes in land surface characteristics. <i>Global and Planetary Change</i> , 2000, 26, 445-465.	3.5	109
32	Ecological conservatism in the "living fossil" Ginkgo. <i>Paleobiology</i> , 2003, 29, 84-104.	2.0	109
33	Eocene and Oligocene Floras and Vegetation of the Rocky Mountains. <i>Annals of the Missouri Botanical Garden</i> , 1987, 74, 748.	1.3	103
34	Leaf wax composition and carbon isotopes vary among major conifer groups. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 170, 145-156.	3.9	101
35	Making the case for a formal Anthropocene Epoch: an analysis of ongoing critiques. <i>Newsletters on Stratigraphy</i> , 2017, 50, 205-226.	1.2	100
36	Paleotemperature Estimation Using Leaf-Margin Analysis: Is Australia Different?. <i>Palaios</i> , 2004, 19, 129-142.	1.3	92

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37	Plant response to a global greenhouse event 56 million years ago. <i>American Journal of Botany</i> , 2013, 100, 1234-1254.	1.7	92
38	Eocene hyperthermal event offers insight into greenhouse warming. <i>Eos</i> , 2006, 87, 165.	0.1	91
39	Paleohydrologic response to continental warming during the Paleocene–Eocene Thermal Maximum, Bighorn Basin, Wyoming. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013, 370, 196-208.	2.3	88
40	Evaluating the use of weathering indices for determining mean annual precipitation in the ancient stratigraphic record. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2011, 309, 358-366.	2.3	86
41	Conflict between Local and Global Changes in Plant Diversity through Geological Time. <i>Palaios</i> , 1995, 10, 551.	1.3	84
42	Floral response to rapid warming in the earliest Eocene and implications for concurrent faunal change. <i>Paleobiology</i> , 2001, 27, 539-563.	2.0	82
43	Paleocene Malvaceae from northern South America and their biogeographical implications. <i>American Journal of Botany</i> , 2011, 98, 1337-1355.	1.7	71
44	Basin-wide magnetostratigraphic framework for the Bighorn Basin, Wyoming. <i>Bulletin of the Geological Society of America</i> , 2007, 119, 848-859.	3.3	70
45	StomataCounter: a neural network for automatic stomata identification and counting. <i>New Phytologist</i> , 2019, 223, 1671-1681.	7.3	69
46	The Anthropocene: a conspicuous stratigraphical signal of anthropogenic changes in production and consumption across the biosphere. <i>Earth's Future</i> , 2016, 4, 34-53.	6.3	66
47	Palms (Arecaceae) from a Paleocene rainforest of northern Colombia. <i>American Journal of Botany</i> , 2009, 96, 1300-1312.	1.7	63
48	Improving the Ginkgo CO ₂ barometer: Implications for the early Cenozoic atmosphere. <i>Earth and Planetary Science Letters</i> , 2016, 439, 158-171.	4.4	60
49	A framework for evaluating the influence of climate, dispersal limitation, and biotic interactions using fossil pollen associations across the late Quaternary. <i>Ecography</i> , 2014, 37, 1095-1108.	4.5	57
50	Isotopic characteristics of canopies in simulated leaf assemblages. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 144, 82-95.	3.9	57
51	Sedimentological, Taphonomic, and Climatic Aspects of Eocene Swamp Deposits (Willwood Formation,) <i>Tj ETQq1 1 0.784314 rgBT /Ove</i>	1.3	56
52	Paleogene plants fractionated carbon isotopes similar to modern plants. <i>Earth and Planetary Science Letters</i> , 2015, 429, 33-44.	4.4	55
53	Fossils and fossil climate: the case for equable continental interiors in the Eocene. , 1994, , 35-44.		53
54	Scaling and structure of dicotyledonous leaf venation networks. <i>Ecology Letters</i> , 2012, 15, 87-95.	6.4	51

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55	Fossil Araceae from a Paleocene neotropical rainforest in Colombia. <i>American Journal of Botany</i> , 2008, 95, 1569-1583.	1.7	47
56	Distribution and carbon isotope patterns of diterpenoids and triterpenoids in modern temperate C3 trees and their geochemical significance. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 85, 342-356.	3.9	47
57	Late Tertiary floral assemblage from upland gravel deposits of the southern Maryland Coastal Plain. <i>Geology</i> , 1990, 18, 311.	4.4	45
58	Stable isotopes in early Eocene mammals as indicators of forest canopy structure and resource partitioning. <i>Paleobiology</i> , 2008, 34, 282-300.	2.0	45
59	THE PLATYCARYA PERPLEX AND THE EVOLUTION OF THE JUGLANDACEAE. <i>American Journal of Botany</i> , 1984, 71, 388-411.	1.7	42
60	A comparison of terpenoid and leaf fossil vegetation proxies in Paleocene and Eocene Bighorn Basin sediments. <i>Organic Geochemistry</i> , 2014, 71, 30-42.	1.8	41
61	CRITICAL ISSUES OF SCALE IN PALEOECOLOGY. <i>Palaios</i> , 2009, 24, 1-4.	1.3	39
62	Synchronizing early Eocene deep-sea and continental records – cyclostratigraphic age models for the Bighorn Basin Coring Project drill cores. <i>Climate of the Past</i> , 2018, 14, 303-319.	3.4	39
63	An early Eocene cool period? Evidence for continental cooling during the warmest part of the Cenozoic. , 1999, , 197-238.		38
64	HIGH-RESOLUTION LEAF X-RADIOGRAPHY IN SYSTEMATICS AND PALEOBOTANY. <i>American Journal of Botany</i> , 1992, 79, 1320-1324.	1.7	37
65	Chemostratigraphic implications of spatial variation in the Paleocene-Eocene Thermal Maximum carbon isotope excursion, SE Bighorn Basin, Wyoming. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 4133-4152.	2.5	37
66	Distortion of carbon isotope excursion in bulk soil organic matter during the Paleocene-Eocene thermal maximum. <i>Bulletin of the Geological Society of America</i> , 2016, 128, 1352-1366.	3.3	36
67	Carbon and oxygen isotope records from Paleosols spanning the Paleocene-Eocene boundary, Bighorn Basin, Wyoming. , 2003, , .		32
68	Floral and environmental gradients on a Late Cretaceous landscape. <i>Ecological Monographs</i> , 2012, 82, 23-47.	5.4	32
69	Tertiary vegetation of North America as a context for mammalian evolution. , 0, , 37-65.		31
70	The Platycarya Perplex and the Evolution of the Juglandaceae. <i>American Journal of Botany</i> , 1984, 71, 388.	1.7	30
71	Middle to Late Paleocene Leguminosae fruits and leaves from Colombia. <i>Australian Systematic Botany</i> , 2019, 32, 385-408.	0.9	29
72	Does extinction wield an axe or pruning shears? How interactions between phylogeny and ecology affect patterns of extinction. <i>Paleobiology</i> , 2011, 37, 72-91.	2.0	28

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73	Consequences of elevated temperature and CO_2 on insect folivory at the ecosystem level: perspectives from the fossil record. <i>Ecology and Evolution</i> , 2016, 6, 4318-4331.	1.9	25
74	Constraining paleohydrologic change during the Paleocene-Eocene Thermal Maximum in the continental interior of North America. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 465, 237-246.	2.3	24
75	Mass extinctions in plant evolution. , 2004, , 61-98.		23
76	A phylogenetic analysis of conifer diterpenoids and their carbon isotopes for chemotaxonomic applications. <i>Organic Geochemistry</i> , 2019, 127, 50-58.	1.8	21
77	Floral change during the Initial Eocene Thermal Maximum in the Powder River Basin, Wyoming. , 2003, , .		19
78	Canopy structure in Late Cretaceous and Paleocene forests as reconstructed from carbon isotope analyses of fossil leaves. <i>Geology</i> , 2019, 47, 977-981.	4.4	19
79	Bighorn Basin Coring Project (BBCP): a continental perspective on early Paleogene hyperthermals. <i>Scientific Drilling</i> , 0, 16, 21-31.	0.6	18
80	Carbon Isotope Record of Trace n -alkanes in a Continental PETM Section Recovered by the Bighorn Basin Coring Project (BBCP). <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 853-865.	2.9	18
81	Relation of Paleovegetation to Geometry and Cyclicity of Some Fluvial Carbonaceous Deposits. <i>Journal of Sedimentary Research</i> , 1984, Vol. 54, .	1.6	18
82	Clarifying the influence of water availability and plant types on carbon isotope discrimination by C3 plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E59-60; author reply E61.	7.1	17
83	Biomechanical and leaf "climate relationships: A comparison of ferns and seed plants. <i>American Journal of Botany</i> , 2014, 101, 338-347.	1.7	17
84	Global Changes in Terrestrial Vegetation and Continental Climate During the Paleocene-Eocene Thermal Maximum. <i>Paleoceanography and Paleoclimatology</i> , 2022, 37, .	2.9	16
85	Reading the leaves: A comparison of leaf rank and automated areole measurement for quantifying aspects of leaf venation. <i>Applications in Plant Sciences</i> , 2014, 2, 1400006.	2.1	15
86	Comments and Reply on " 'Equable' climates during Earth history?". <i>Geology</i> , 1991, 19, 539.	4.4	13
87	An image dataset of cleared, x-rayed, and fossil leaves vetted to plant family for human and machine learning. <i>PhytoKeys</i> , 2021, 187, 93-128.	1.0	12
88	Eocene continental climates and latitudinal temperature gradients: Comment and Reply. <i>Geology</i> , 1996, 24, 1054.	4.4	10
89	Swift Weathering Response on Floodplains During the Paleocene-Eocene Thermal Maximum. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	10
90	Evolution and Expansion of Flowering Plants. <i>The Paleontological Society Papers</i> , 2000, 6, 209-232.	0.6	9

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91	Paleocene wind-dispersed fruits and seeds from Colombia and their implications for early Neotropical rainforests. <i>Acta Palaeobotanica</i> , 2014, 54, 197-229.	0.7	9
92	Reinvestigation of Leaf Rank, an Underappreciated Component of Leo Hickey's Legacy. <i>Bulletin of the Peabody Museum of Natural History</i> , 2014, 55, 79.	1.1	8
93	Binary-state speciation and extinction method is conditionally robust to realistic violations of its assumptions. <i>BMC Evolutionary Biology</i> , 2018, 18, 69.	3.2	7
94	Endocarps of <i>Pyrenacantha</i> (Icacinaceae) from the Early Oligocene of Egypt. <i>International Journal of Plant Sciences</i> , 2020, 181, 432-442.	1.3	7
95	Body mass-related changes in mammal community assembly patterns during the late Quaternary of North America. <i>Ecography</i> , 2021, 44, 56-66.	4.5	7
96	Fossil papilionoids of the <i>Bowdichia</i> clade (Leguminosae) from the Paleogene of North America. <i>American Journal of Botany</i> , 2022, 109, 130-150.	1.7	7
97	First ichnofossils of flank-butressed trees (late Eocene), Fayum Depression, Egypt. <i>Ichnos</i> , 1995, 3, 281-286.	0.5	6
98	Decreased soil carbon in a warming world: Degraded pyrogenic carbon during the Paleocene-Eocene Thermal Maximum, Bighorn Basin, Wyoming. <i>Earth and Planetary Science Letters</i> , 2021, 566, 116970.	4.4	6
99	High-Resolution Leaf X-Radiography in Systematics and Paleobotany. <i>American Journal of Botany</i> , 1992, 79, 1320.	1.7	6
100	Attached leaves and fruits of myrtaceous affinity from the Middle Eocene of Colorado. <i>Review of Palaeobotany and Palynology</i> , 1998, 102, 153-163.	1.5	5
101	Coring project in Bighorn Basin: Drilling phase complete. <i>Eos</i> , 2012, 93, 41-42.	0.1	4
102	Distinctive quadrangular seed-bearing structures of gnetalean affinity from the Late Jurassic Morrison Formation of Utah, USA. <i>Journal of Systematic Palaeontology</i> , 2021, 19, 743-760.	1.5	4
103	Fossil Atmospheres: a case study of citizen science in question-driven palaeontological research. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20170388.	4.0	3
104	Stable isotope study of fluid inclusions in fluorite from Idaho: Implications for continental climates during the Eocene: Comment and Reply. <i>Geology</i> , 1993, 21, 1051.	4.4	2
105	The Multi-Stranded Career of Leo J. Hickey. <i>Bulletin of the Peabody Museum of Natural History</i> , 2014, 55, 69-78.	1.1	2
106	Diversification in the Rosales is influenced by dispersal, geographic range size, and pre-existing species richness. <i>American Journal of Botany</i> , 2022, , .	1.7	2
107	Paleoclimate, Proxies, Paradoxes, and Predictions. <i>Palaios</i> , 1994, 9, 121.	1.3	1
108	Lyons et al. reply. <i>Nature</i> , 2016, 538, E3-E4.	27.8	1

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109	Effects of the Paleocene-Eocene Thermal Maximum on Terrestrial Plants and Carbon Storage. The Paleontological Society Special Publications, 2014, 13, 131-132.	0.0	1
110	Prehistoric Wetlands. , 2021, , .		1
111	Paleocene-Eocene floral and climatic change in the Bighorn Basin. The Paleontological Society Special Publications, 1992, 6, 316-316.	0.0	0
112	Taphonomy and Depositional Environments of Fossil Plant Assemblages from Tabular Carbonaceous Shales of the Bighorn Basin, Wyoming. The Paleontological Society Special Publications, 1996, 8, 97-97.	0.0	0
113	A Dedication to Richard Hall Benson. The Paleontological Society Papers, 2003, 9, xvi-xviii.	0.6	0
114	Lyons et al. reply. Nature, 2016, 537, E5-E6.	27.8	0
115	Presentation of the 2018 Paleontological Society Medal to Anna K. Behrensmeyer. Journal of Paleontology, 2019, 93, 1036-1037.	0.8	0
116	Determining Paleoclimates. Science, 1993, 260, 278-279.	12.6	0