Scott L Wing

List of Publications by Year
in descending order

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	Fossil papilionoids of the Bowdichia clade (Leguminosae) from the Paleogene of North America. American Journal of Botany, 2022, 109, 130-150.	1.7	7
2	Swift Weathering Response on Floodplains During the Paleoceneâ€Eocene Thermal Maximum. Geophysical Research Letters, 2022, 49, .	4.0	10
3	Global Changes in Terrestrial Vegetation and Continental Climate During the Paleoceneâ€Eocene Thermal Maximum. Paleoceanography and Paleoclimatology, 2022, 37, .	2.9	16
4	Diversification in the Rosales is influenced by dispersal, geographic range size, and preâ€existing species richness. American Journal of Botany, 2022, , .	1.7	2
5	Body massâ€related changes in mammal community assembly patterns during the late Quaternary of North America. Ecography, 2021, 44, 56-66.	4.5	7
6	Extinction at the end-Cretaceous and the origin of modern Neotropical rainforests. Science, 2021, 372, 63-68.	12.6	115
7	Decreased soil carbon in a warming world: Degraded pyrogenic carbon during the Paleocene-Eocene Thermal Maximum, Bighorn Basin, Wyoming. Earth and Planetary Science Letters, 2021, 566, 116970.	4.4	6
8	Distinctive quadrangular seed-bearing structures of gnetalean affinity from the Late Jurassic Morrison Formation of Utah, USA. Journal of Systematic Palaeontology, 2021, 19, 743-760.	1.5	4
9	Prehistoric Wetlands. , 2021, , .		1
10	ï»¿An image dataset of cleared, x-rayed, and fossil leaves vetted to plant family for human and machine learning. PhytoKeys, 2021, 187, 93-128.	1.0	12
11	Endocarps of <i>Pyrenacantha</i> (Icacinaceae) from the Early Oligocene of Egypt. International Journal of Plant Sciences, 2020, 181, 432-442.	1.3	7
12	Presentation of the 2018 Paleontological Society Medal to Anna K. Behrensmeyer. Journal of Paleontology, 2019, 93, 1036-1037.	0.8	0
13	Middle to Late Paleocene Leguminosae fruits and leaves from Colombia. Australian Systematic Botany, 2019, 32, 385-408.	0.9	29
14	Canopy structure in Late Cretaceous and Paleocene forests as reconstructed from carbon isotope analyses of fossil leaves. Geology, 2019, 47, 977-981.	4.4	19
15	StomataCounter: a neural network for automatic stomata identification and counting. New Phytologist, 2019, 223, 1671-1681.	7.3	69
16	Carbon Isotope Record of Trace <i>n</i>â€alkanes in a Continental PETM Section Recovered by the Bighorn Basin Coring Project (BBCP). Paleoceanography and Paleoclimatology, 2019, 34, 853-865.	2.9	18
17	Fossil Atmospheres: a case study of citizen science in question-driven palaeontological research. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20170388.	4.0	3
18	A phylogenetic analysis of conifer diterpenoids and their carbon isotopes for chemotaxonomic applications. Organic Geochemistry, 2019, 127, 50-58.	1.8	21

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19	Global Boundary Stratotype Section and Point (GSSP) for the Anthropocene Series: Where and how to look for potential candidates. Earth-Science Reviews, 2018, 178, 379-429.	9.1	153
20	Synchronizing early Eocene deep-sea and continental records â€“ cyclostratigraphic age models for the Bighorn Basin Coring Project drill cores. Climate of the Past, 2018, 14, 303-319.	3.4	39
21	Binary-state speciation and extinction method is conditionally robust to realistic violations of its assumptions. BMC Evolutionary Biology, 2018, 18, 69.	3.2	7
22	Constraining paleohydrologic change during the Paleocene-Eocene Thermal Maximum in the continental interior of North America. Palaeogeography, Palaeoclimatology, Palaeoecology, 2017, 465, 237-246.	2.3	24
23	Scale and diversity of the physical technosphere: A geological perspective. Infrastructure Asset Management, 2017, 4, 9-22.	1.6	193
24	Making the case for a formal Anthropocene Epoch: an analysis of ongoing critiques. Newsletters on Stratigraphy, 2017, 50, 205-226.	1.2	100
25	Consequences of elevated temperature and <scp><i>p</i>CO</scp>₂ on insect folivory at the ecosystem level: perspectives from the fossil record. Ecology and Evolution, 2016, 6, 4318-4331.	1.9	25
26	The Anthropocene: a conspicuous stratigraphical signal of anthropogenic changes in production and consumption across the biosphere. Earth's Future, 2016, 4, 34-53.	6.3	66
27	Distortion of carbon isotope excursion in bulk soil organic matter during the Paleocene-Eocene thermal maximum. Bulletin of the Geological Society of America, 2016, 128, 1352-1366.	3.3	36
28	Stratigraphic and Earth System approaches to defining the Anthropocene. Earth's Future, 2016, 4, 324-345.	6.3	162
29	Lyons et al. reply. Nature, 2016, 537, E5-E6.	27.8	0
30	Lyons et al. reply. Nature, 2016, 538, E3-E4.	27.8	1
31	Improving the Ginkgo CO2 barometer: Implications for the early Cenozoic atmosphere. Earth and Planetary Science Letters, 2016, 439, 158-171.	4.4	60
32	Holocene shifts in the assembly of plant and animal communities implicate human impacts. Nature, 2016, 529, 80-83.	27.8	147
33	Computer vision cracks the leaf code. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3305-3310.	7.1	114
34	When did the Anthropocene begin? A mid-twentieth century boundary level is stratigraphically optimal. Quaternary International, 2015, 383, 196-203.	1.5	546
35	Paleogene plants fractionated carbon isotopes similar to modern plants. Earth and Planetary Science Letters, 2015, 429, 33-44.	4.4	55
36	Leaf wax composition and carbon isotopes vary among major conifer groups. Geochimica Et Cosmochimica Acta, 2015, 170, 145-156.	3.9	101

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37	Two massive, rapid releases of carbon during the onset of the Palaeoceneâ€"Eocene thermalÂmaximum. Nature Geoscience, 2015, 8, 44-47.	12.9	188
38	A framework for evaluating the influence of climate, dispersal limitation, and biotic interactions using fossil pollen associations across the late Quaternary. Ecography, 2014, 37, 1095-1108.	4.5	57
39	The Multi-Stranded Career of Leo J. Hickey. Bulletin of the Peabody Museum of Natural History, 2014, 55, 69-78.	1.1	2
40	Reading the leaves: A comparison of leaf rank and automated areole measurement for quantifying aspects of leaf venation. Applications in Plant Sciences, 2014, 2, 1400006.	2.1	15
41	A comparison of terpenoid and leaf fossil vegetation proxies in Paleocene and Eocene Bighorn Basin sediments. Organic Geochemistry, 2014, 71, 30-42.	1.8	41
42	Reinvestigation of Leaf Rank, an Underappreciated Component of Leo Hickey's Legacy. Bulletin of the Peabody Museum of Natural History, 2014, 55, 79.	1.1	8
43	Biomechanical and leafâ€"climate relationships: A comparison of ferns and seed plants. American Journal of Botany, 2014, 101, 338-347.	1.7	17
44	Isotopic characteristics of canopies in simulated leaf assemblages. Geochimica Et Cosmochimica Acta, 2014, 144, 82-95.	3.9	57
45	Paleocene wind-dispersed fruits and seeds from Colombia and their implications for early Neotropical rainforests. Acta Palaeobotanica, 2014, 54, 197-229.	0.7	9
46	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
47	Paleohydrologic response to continental warming during the Paleoceneâ€"Eocene Thermal Maximum, Bighorn Basin, Wyoming. Palaeogeography, Palaeoclimatology, Palaeoecology, 2013, 370, 196-208.	2.3	88
48	Plant response to a global greenhouse event 56 million years ago. American Journal of Botany, 2013, 100, 1234-1254.	1.7	92
49	Chemostratigraphic implications of spatial variation in the Paleoceneâ€Eocene Thermal Maximum carbon isotope excursion, SE Bighorn Basin, Wyoming. Geochemistry, Geophysics, Geosystems, 2013, 14, 4133-4152.	2.5	37
50	Floral and environmental gradients on a Late Cretaceous landscape. Ecological Monographs, 2012, 82, 23-47.	5.4	32
51	Distribution and carbon isotope patterns of diterpenoids and triterpenoids in modern temperate C3 trees and their geochemical significance. Geochimica Et Cosmochimica Acta, 2012, 85, 342-356.	3.9	47
52	Coring project in Bighorn Basin: Drilling phase complete. Eos, 2012, 93, 41-42.	0.1	4
53	Evolution of the Earliest Horses Driven by Climate Change in the Paleocene-Eocene Thermal Maximum. Science, 2012, 335, 959-962.	12.6	188
54	Scaling and structure of dicotyledonous leaf venation networks. Ecology Letters, 2012, 15, 87-95.	6.4	51

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55	Paleocene Malvaceae from northern South America and their biogeographical implications. American Journal of Botany, 2011, 98, 1337-1355.	1.7	71
56	Production of n-alkyl lipids in living plants and implications for the geologic past. Geochimica Et Cosmochimica Acta, 2011, 75, 7472-7485.	3.9	278
57	The Paleocene-Eocene Thermal Maximum: A Perturbation of Carbon Cycle, Climate, and Biosphere with Implications for the Future. Annual Review of Earth and Planetary Sciences, 2011, 39, 489-516.	11.0	722
58	Evaluating the use of weathering indices for determining mean annual precipitation in the ancient stratigraphic record. Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 309, 358-366.	2.3	86
59	Sensitivity of leaf size and shape to climate: global patterns and paleoclimatic applications. New Phytologist, 2011, 190, 724-739.	7.3	445
60	Does extinction wield an axe or pruning shears? How interactions between phylogeny and ecology affect patterns of extinction. Paleobiology, 2011, 37, 72-91.	2.0	28
61	Clarifying the influence of water availability and plant types on carbon isotope discrimination by C3 plants. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E59-60; author reply E61.	7.1	17
62	Global patterns in leaf ¹³ C discrimination and implications for studies of past and future climate. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5738-5743.	7.1	690
63	Late Paleocene fossils from the CerrejÃ³n Formation, Colombia, are the earliest record of Neotropical rainforest. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18627-18632.	7.1	256
64	Palms (Arecaceae) from a Paleocene rainforest of northern Colombia. American Journal of Botany, 2009, 96, 1300-1312.	1.7	63
65	CRITICAL ISSUES OF SCALE IN PALEOECOLOGY. Palaios, 2009, 24, 1-4.	1.3	39
66	Fossil Araceae from a Paleocene neotropical rainforest in Colombia. American Journal of Botany, 2008, 95, 1569-1583.	1.7	47
67	Stable isotopes in early Eocene mammals as indicators of forest canopy structure and resource partitioning. Paleobiology, 2008, 34, 282-300.	2.0	45
68	Sharply increased insect herbivory during the Paleoceneâ€“Eocene Thermal Maximum. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1960-1964.	7.1	224
69	Basin-wide magnetostratigraphic framework for the Bighorn Basin, Wyoming. Bulletin of the Geological Society of America, 2007, 119, 848-859.	3.3	70
70	Magnitude of the carbon isotope excursion at the Paleoceneâ€“Eocene thermal maximum: The role of plant community change. Earth and Planetary Science Letters, 2007, 262, 50-65.	4.4	178
71	Eocene hyperthermal event offers insight into greenhouse warming. Eos, 2006, 87, 165.	0.1	91
72	History and causes of post-Laramide relief in the Rocky Mountain orogenic plateau. Bulletin of the Geological Society of America, 2006, 118, 393-405.	3.3	142

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73	Transient Floral Change and Rapid Global Warming at the Paleocene-Eocene Boundary. Science, 2005, 310, 993-996.	12.6	486
74	Mass extinctions in plant evolution. , 2004, , 61-98.		23
75	Assessing the Causes of Late Pleistocene Extinctions on the Continents. Science, 2004, 306, 70-75.	12.6	894
76	Paleotemperature Estimation Using Leaf-Margin Analysis: Is Australia Different?. Palaios, 2004, 19, 129-142.	1.3	92
77	High Plant Diversity in Eocene South America: Evidence from Patagonia. Science, 2003, 300, 122-125.	12.6	263
78	Carbon and oxygen isotope records from Paleosols spanning the Paleocene-Eocene boundary, Bighorn Basin, Wyoming. , 2003, , .		32
79	Floral change during the Initial Eocene Thermal Maximum in the Powder River Basin, Wyoming. , 2003, , .		19
80	Ecological conservatism in the â€œliving fossilâ€•Ginkgo. Paleobiology, 2003, 29, 84-104.	2.0	109
81	A Dedication to Richard Hall Benson. The Paleontological Society Papers, 2003, 9, xvi-xviii.	0.6	0
82	Paleobotanical Evidence for Near Present-Day Levels of Atmospheric CO2 During Part of the Tertiary. Science, 2001, 292, 2310-2313.	12.6	309
83	Floral response to rapid warming in the earliest Eocene and implications for concurrent faunal change. Paleobiology, 2001, 27, 539-563.	2.0	82
84	Evolution and Expansion of Flowering Plants. The Paleontological Society Papers, 2000, 6, 209-232.	0.6	9
85	Climate sensitivity to changes in land surface characteristics. Global and Planetary Change, 2000, 26, 445-465.	3.5	109
86	An early Eocene cool period? Evidence for ceontinental cooling during the warmest part of the Cenozoic. , 1999, , 197-238.		38
87	ECOLOGICAL ASPECTS OF THE CRETACEOUS FLOWERING PLANT RADIATION. Annual Review of Earth and Planetary Sciences, 1998, 26, 379-421.	11.0	243
88	Using fossil leaves as paleoprecipitation indicators: An Eocene example. Geology, 1998, 26, 203.	4.4	264
89	Sedimentological, Taphonomic, and Climatic Aspects of Eocene Swamp Deposits (Willwood Formation,) Tj ETQq1 1 0.784314 rgBT /Ove	1.3	56
90	Attached leaves and fruits of myrtaceous affinity from the Middle Eocene of Colorado. Review of Palaeobotany and Palynology, 1998, 102, 153-163.	1.5	5

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91	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
92	Eocene continental climates and latitudinal temperature gradients: Comment and Reply. Geology, 1996, 24, 1054.	4.4	10
93	Eocene continental climates and latitudinal temperature gradients. Geology, 1995, 23, 1044.	4.4	438
94	First ichnofossils of flankâ€buttressed trees (late Eocene), Fayum Depression, Egypt. Ichnos, 1995, 3, 281-286.	0.5	6
95	Conflict between Local and Global Changes in Plant Diversity through Geological Time. Palaios, 1995, 10, 551.	1.3	84
96	Plant and mammal diversity in the Paleocene to early Eocene of the Bighorn Basin. Palaeogeography, Palaeoclimatology, Palaeoecology, 1995, 115, 117-155.	2.3	138
97	Paleoclimate, Proxies, Paradoxes, and Predictions. Palaios, 1994, 9, 121.	1.3	1
98	Fossils and fossil climate: the case for equable continental interiors in the Eocene. , 1994, , 35-44.		53
99	Implications of an exceptional fossil flora for Late Cretaceous vegetation. Nature, 1993, 363, 342-344.	27.8	163
100	Stable isotope study of fluid inclusions in fluorite from Idaho: Implications for continental climates during the Eocene: Comment and Reply. Geology, 1993, 21, 1051.	4.4	2
101	Determining Paleoclimates. Science, 1993, 260, 278-279.	12.6	0
102	The reflection of deciduous forest communities in leaf litter: implications for autochthonous litter assemblages from the fossil record. Paleobiology, 1992, 18, 30-49.	2.0	149
103	HIGHâ€RESOLUTION LEAF Xâ€RADIOGRAPHY IN SYSTEMATICS AND PALEOBOTANY. American Journal of Botany, 1992, 79, 1320-1324.	1.7	37
104	Paleocene-Eocene floral and climatic change in the Bighorn Basin. The Paleontological Society Special Publications, 1992, 6, 316-316.	0.0	0
105	High-Resolution Leaf X-Radiography in Systematics and Paleobotany. American Journal of Botany, 1992, 79, 1320.	1.7	6
106	Comments and Reply on " 'Equable' climates during Earth history?". Geology, 1991, 19, 539.	4.4	13
107	Early Eocene biotic and climatic change in interior western North America. Geology, 1991, 19, 1189.	4.4	112
108	Late Tertiary floral assemblage from upland gravel deposits of the southern Maryland Coastal Plain. Geology, 1990, 18, 311.	4.4	45

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109	Eocene and Oligocene Floras and Vegetation of the Rocky Mountains. Annals of the Missouri Botanical Garden, 1987, 74, 748.	1.3	103
110	The reciprocal interaction of angiosperm evolution and tetrapod herbivory. Review of Palaeobotany and Palynology, 1987, 50, 179-210.	1.5	145
111	THE PLATYCARYA PERPLEX AND THE EVOLUTION OF THE JUGLANDACEAE. American Journal of Botany, 1984, 71, 388-411.	1.7	42
112	Relation of Paleovegetation to Geometry and Cyclicity of Some Fluvial Carbonaceous Deposits. Journal of Sedimentary Research, 1984, Vol. 54, .	1.6	18
113	The Platycarya Perplex and the Evolution of the Juglandaceae. American Journal of Botany, 1984, 71, 388.	1.7	30
114	The fayum primate forest revisited. Journal of Human Evolution, 1982, 11, 603-632.	2.6	168
115	Bighorn Basin Coring Project (BBCP): a continental perspective on early Paleogene hyperthermals. Scientific Drilling, 0, 16, 21-31.	0.6	18
116	Tertiary vegetation of North America as a context for mammalian evolution. , 0, , 37-65.		31