S Kathleen Lyons

List of Publications by Year
in descending order

65 papers	4,401 citations	159358 30 h-index	138251 58 g-index
68 all docs	68 docs citations	68 times ranked	5359 citing authors

#	Article	IF	Citations
1	Ecotypic variation in the context of global climate change: revisiting the rules. Ecology Letters, 2006, 9, 853-869.	3.0	472
2	BODY MASS OF LATE QUATERNARY MAMMALS. Ecology, 2003, 84, 3403-3403.	1.5	393
3	Patterns and causes of species richness: a general simulation model for macroecology. Ecology Letters, 2009, 12, 873-886.	3.0	286
4	Two-phase increase in the maximum size of life over 3.5 billion years reflects biological innovation and environmental opportunity. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 24-27.	3.3	260
5	The Evolution of Maximum Body Size of Terrestrial Mammals. Science, 2010, 330, 1216-1219.	6.0	252
6	Thermodynamic and metabolic effects on the scaling of production and population energy use. Ecology Letters, 2003, 6, 990-995.	3.0	215
7	Body size downgrading of mammals over the late Quaternary. Science, 2018, 360, 310-313.	6.0	200
8	Similarity of Mammalian Body Size across the Taxonomic Hierarchy and across Space and Time. American Naturalist, 2004, 163, 672-691.	1.0	173
9	Holocene shifts in the assembly of plant and animal communities implicate human impacts. Nature, 2016, 529, 80-83.	13.7	147
10	An Analytical Model of Latitudinal Gradients of Species Richness with an Empirical Test for Marsupials and Bats in the New World. Oikos, 1998, 81, 93.	1.2	140
11	A QUANTITATIVE ASSESSMENT OF THE RANGE SHIFTS OF PLEISTOCENE MAMMALS. Journal of Mammalogy, 2003, 84, 385-402.	0.6	132
12	How big should a mammal be? A macroecological look at mammalian body size over space and time. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 2364-2378.	1.8	113
13	The evolutionary consequences of oxygenic photosynthesis: a body size perspective. Photosynthesis Research, 2011, 107, 37-57.	1.6	107
14	The maximum rate of mammal evolution. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4187-4190.	3.3	107
15	Latitudinal Patterns of Range Size: Methodological Concerns and Empirical Evaluations for New World Bats and Marsupials. Oikos, 1997, 79, 568.	1.2	100
16	SPECIES RICHNESS, LATITUDE, AND SCALE-SENSITIVITY. Ecology, 2002, 83, 47-58.	1.5	96
17	A HEMISPHERIC ASSESSMENT OF SCALE DEPENDENCE IN LATITUDINAL GRADIENTS OF SPECIES RICHNESS. Ecology, 1999, 80, 2483-2491.	1.5	90
18	Integrating spatial and temporal approaches to understanding species richness. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 3633-3643.	1.8	81

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19	Body Size Evolution Across the Geozoic. Annual Review of Earth and Planetary Sciences, 2016, 44, 523-553.	4.6	64
20	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.	2.1	57
21	Exploring the influence of ancient and historic megaherbivore extirpations on the global methane budget. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 874-879.	3.3	53
22	Ecological fidelity of functional traits based on species presence-absence in a modern mammalian bone assemblage (Amboseli, Kenya). Paleobiology, 2014, 40, 560-583.	1.3	51
23	Methane emissions from extinct megafauna. Nature Geoscience, 2010, 3, 374-375.	5.4	49
24	Macroecology: more than the division of food and space among species on continents. Progress in Physical Geography, 2008, 32, 115-138.	1.4	48
25	Patterns of maximum body size evolution in Cenozoic land mammals: eco-evolutionary processes and abiotic forcing. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132049.	1.2	48
26	The fossil record of the sixth extinction. Ecology Letters, 2016, 19, 546-553.	3.0	42
27	Ecological correlates of range shifts of Late Pleistocene mammals. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 3681-3693.	1.8	38
28	A Quantitative Model for Assessing Community Dynamics of Pleistocene Mammals. American Naturalist, 2005, 165, E168-E185.	1.0	37
29	Was a â€˜hyperdiseaseâ€™ responsible for the late Pleistocene megafaunal extinction?. Ecology Letters, 2004, 7, 859-868.	3.0	35
30	Hierarchical complexity and the size limits of life. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171039.	1.2	34
31	Unraveling the consequences of the terminal Pleistocene megafauna extinction on mammal community assembly. Ecography, 2016, 39, 223-239.	2.1	33
32	Reorganization of surviving mammal communities after the end-Pleistocene megafaunal extinction. Science, 2019, 365, 1305-1308.	6.0	33
33	The accelerating influence of humans on mammalian macroecological patterns over the late Quaternary. Quaternary Science Reviews, 2019, 211, 1-16.	1.4	33
34	The influence of juvenile dinosaurs on community structure and diversity. Science, 2021, 371, 941-944.	6.0	33
35	The changing role of mammal life histories in Late Quaternary extinction vulnerability on continents and islands. Biology Letters, 2016, 12, 20160342.	1.0	28
36	Mammal species occupy different climates following the expansion of human impacts. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	27

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37	Effects of allometry, productivity and lifestyle on rates and limits of body size evolution. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20131007.	1.2	26
38	Investigating Biotic Interactions in Deep Time. Trends in Ecology and Evolution, 2021, 36, 61-75.	4.2	26
39	The midâ€domain effect: it's not just about space. Journal of Biogeography, 2013, 40, 2017-2019.	1.4	21
40	The importance of considering animal body mass in <scp>IPCC</scp> greenhouse inventories and the underappreciated role of wild herbivores. Global Change Biology, 2015, 21, 3880-3888.	4.2	20
41	A Century of Change in Kenya's Mammal Communities: Increased Richness and Decreased Uniqueness in Six Protected Areas. PLoS ONE, 2014, 9, e93092.	1.1	19
42	Changes in the diet and body size of a small herbivorous mammal (hispid cotton rat, Sigmodon) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	2.1	12
43	Macroecological Patterns of Body Size in Mammals across Time and Space. , 0, , 116-144.		12
44	Range sizes and shifts of North American Pleistocene mammals are not consistent with a climatic explanation for extinction. World Archaeology, 2012, 44, 43-55.	0.5	9
45	Biotic interchange has structured Western Hemisphere mammal communities. Global Ecology and Biogeography, 2017, 26, 1408-1422.	2.7	9
46	Macroecological patterns of mammals across taxonomic, spatial, and temporal scales. Journal of Mammalogy, 2019, 100, 1087-1104.	0.6	9
47	The hidden legacy of megafaunal extinction: Loss of functional diversity and resilience over the Late Quaternary at Hallâ€™s Cave. Global Ecology and Biogeography, 2022, 31, 294-307.	2.7	9
48	Mammals of Kenya's protected areas from 1888 to 2013. Ecology, 2014, 95, 1711-1711.	1.5	8
49	Anthropogenic disruptions to longstanding patterns of trophic-size structure in vertebrates. Nature Ecology and Evolution, 2022, 6, 684-692.	3.4	8
50	Using a Macroecological Approach to Study Geographic Range, Abundance and Body Size in the Fossil Record. The Paleontological Society Papers, 2010, 16, 117-141.	0.8	7
51	Body massâ€related changes in mammal community assembly patterns during the late Quaternary of North America. Ecography, 2021, 44, 56-66.	2.1	7
52	Late quaternary biotic homogenization of North American mammalian faunas. Nature Communications, 2022, 13, .	5.8	7
53	Mammal Community Structure through the Paleocene-Eocene Thermal Maximum. American Naturalist, 2020, 196, 271-290.	1.0	6
54	The sensitivity of Neotoma to climate change and biodiversity loss over the late Quaternary. Quaternary Research, 2022, 105, 49-63.	1.0	6

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55	On Being the Right Size. , 2013, , 1-10.		5
56	A cranial correlate of body mass in proboscideans. Zoological Journal of the Linnean Society, 2018, 184, 919-931.	1.0	5
57	SPECIES RICHNESS, LATITUDE, AND SCALE-SENSITIVITY. , 2002, 83, 47.		4
58	Reply to â€˜Methane and megafaunaâ€™. Nature Geoscience, 2011, 4, 272-272.	5.4	3
59	Evidence for Trait-Based Dominance in Occupancy among Fossil Taxa and the Decoupling of Macroecological and Macroevolutionary Success. American Naturalist, 2018, 192, E120-E138.	1.0	3
60	Lyons et al. reply. Nature, 2016, 538, E3-E4.	13.7	1
61	Ecological Fidelity of Functional Traits Based on Species Presence-Absence in the Mammalian Bone Assemblage of Amboseli National Park, Kenya. The Paleontological Society Special Publications, 2014, 13, 9-9.	0.0	0
62	Species Richness, Community Dynamics, and Time-Averaging in Recent Kenyan Ecosystems. The Paleontological Society Special Publications, 2014, 13, 8-9.	0.0	0
63	Assessing the Impact of Time-Averaging on a Miocene Vertebrate Fauna from Northern Pakistan. The Paleontological Society Special Publications, 2014, 13, 41-41.	0.0	0
64	Lyons et al. reply. Nature, 2016, 537, E5-E6.	13.7	0
65	Response to Comment on â€œThe influence of juvenile dinosaurs on community structure and diversityâ€• Science, 2022, 375, eabj7383.	6.0	0