George Wittemyer

List of Publications by Year
in descending order

117 papers	6,693 citations	87888 38 h-index	71685 76 g-index
121 all docs	121 docs citations	121 times ranked	7059 citing authors

#	Article	IF	Citations
1	Moving in the Anthropocene: Global reductions in terrestrial mammalian movements. Science, 2018, 359, 466-469.	12.6	783
2	A synthesis of two decades of research documenting the effects of noise on wildlife. Biological Reviews, 2016, 91, 982-1005.	10.4	541
3	Accelerated Human Population Growth at Protected Area Edges. Science, 2008, 321, 123-126.	12.6	534
4	Illegal killing for ivory drives global decline in African elephants. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13117-13121.	7.1	288
5	Devastating Decline of Forest Elephants in Central Africa. PLoS ONE, 2013, 8, e59469.	2.5	266
6	Characterising the impacts of emerging energy development on wildlife, with an eye towards mitigation. Ecology Letters, 2013, 16, 112-125.	6.4	215
7	Noise pollution is pervasive in U.S. protected areas. Science, 2017, 356, 531-533.	12.6	203
8	Stable isotopes in elephant hair document migration patterns and diet changes. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 371-373.	7.1	193
9	Behavioural reactions of elephants towards a dying and deceased matriarch. Applied Animal Behaviour Science, 2006, 100, 87-102.	1.9	183
10	Efficacy of extracting indices from large-scale acoustic recordings to monitor biodiversity. Conservation Biology, 2018, 32, 1174-1184.	4.7	118
11	Elucidating the significance of spatial memory on movement decisions by African savannah elephants using state–space models. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20143042.	2.6	112
12	Breeding phenology in relation to NDVI variability in free-ranging African elephant. Ecography, 2007, 30, 42-50.	4.5	101
13	History of Animals using Isotope Records (HAIR): A 6-year dietary history of one family of African elephants. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8093-8100.	7.1	96
14	Disentangling the effects of forage, social rank, and risk on movement autocorrelation of elephants using Fourier and wavelet analyses. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19108-19113.	7.1	95
15	A Comparison of Social Organization in Asian Elephants and African Savannah Elephants. International Journal of Primatology, 2012, 33, 1125-1141.	1.9	94
16	Novel opportunities for wildlife conservation and research with real-time monitoring. Ecological Applications, 2014, 24, 593-601.	3.8	89
17	A synthesis of health benefits of natural sounds and their distribution in national parks. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	87
18	Vertical Transmission of Social Roles Drives Resilience to Poaching in Elephant Networks. Current Biology, 2016, 26, 75-79.	3.9	84

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19	Will Elephants Soon Disappear from West African Savannahs?. PLoS ONE, 2011, 6, e20619.	2.5	82
20	Comparative Demography of an At-Risk African Elephant Population. PLoS ONE, 2013, 8, e53726.	2.5	81
21	The elephant population of Samburu and Buffalo Springs National Reserves, Kenya. African Journal of Ecology, 2001, 39, 357-365.	0.9	73
22	Where sociality and relatedness diverge: the genetic basis for hierarchical social organization in African elephants. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 3513-3521.	2.6	69
23	From moonlight to movement and synchronized randomness: Fourier and wavelet analyses of animal location time series data. Ecology, 2010, 91, 1506-1518.	3.2	65
24	Bomb-curve radiocarbon measurement of recent biologic tissues and applications to wildlife forensics and stable isotope (paleo)ecology. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11736-11741.	7.1	65
25	Quantifying spatial habitat loss from hydrocarbon development through assessing habitat selection patterns of mule deer. Global Change Biology, 2015, 21, 3961-3970.	9.5	65
26	Developing fencing policies for dryland ecosystems. Journal of Applied Ecology, 2015, 52, 544-551.	4.0	64
27	Disturbance type and species life history predict mammal responses to humans. Global Change Biology, 2021, 27, 3718-3731.	9.5	62
28	Characterizing properties and drivers of long distance movements by elephants (Loxodonta africana) in the Gourma, Mali. Biological Conservation, 2013, 157, 60-68.	4.1	60
29	Predicting time-specific changes in demographic processes using remote-sensing data. Journal of Applied Ecology, 2006, 43, 366-376.	4.0	48
30	Elephants, Ivory, and Trade. Science, 2010, 327, 1331-1332.	12.6	48
31	Fissionâ€"fusion processes weaken dominance networks of female Asian elephants in a productive habitat. Behavioral Ecology, 2017, 28, 243-252.	2.2	48
32	Human footprint and protected areas shape elephant range across Africa. Current Biology, 2021, 31, 2437-2445.e4.	3.9	48
33	Demographic Variables for Wild Asian Elephants Using Longitudinal Observations. PLoS ONE, 2013, 8, e82788.	2.5	46
34	Effects of helicopter capture and handling on movement behavior of mule deer. Journal of Wildlife Management, 2014, 78, 731-738.	1.8	46
35	Behavioural valuation of landscapes using movement data. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180046.	4.0	46
36	The impact of ecological variability on the reproductive endocrinology of wild female African elephants. Hormones and Behavior, 2007, 51, 346-354.	2.1	45

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37	The use of on‑animal acoustical recording devices for studying animal behavior. Ecology and Evolution, 2013, 3, 2030-2037.	1.9	45
38	Landscape and anthropogenic features influence the use of auditory vigilance by mule deer. Behavioral Ecology, 2015, 26, 75-82.	2.2	45
39	Long-Term Monitoring of Dzanga Bai Forest Elephants: Forest Clearing Use Patterns. PLoS ONE, 2013, 8, e85154.	2.5	43
40	Expert range maps of global mammal distributions harmonised to three taxonomic authorities. Journal of Biogeography, 2022, 49, 979-992.	3.0	41
41	Controlling for behavioural state reveals social dynamics among male African elephants, Loxodonta africana. Animal Behaviour, 2014, 95, 111-119.	1.9	40
42	Road noise causes earlier predator detection and flight response in a free-ranging mammal. Behavioral Ecology, 2016, 27, 1370-1375.	2.2	40
43	Inferring ecological and behavioral drivers of African elephant movement using a linear filtering approach. Ecology, 2011, 92, 1648-1657.	3.2	39
44	Slow intrinsic growth rate in forest elephants indicates recovery from poaching will require decades. Journal of Applied Ecology, 2017, 54, 153-159.	4.0	39
45	Leveraging multidimensional heterogeneity in resource selection to define movement tactics of animals. Ecology Letters, 2019, 22, 1417-1427.	6.4	38
46	Using Poaching Levels and Elephant Distribution to Assess the Conservation Efficacy of Private, Communal and Government Land in Northern Kenya. PLoS ONE, 2015, 10, e0139079.	2.5	37
47	Establishing chronologies from isotopic profiles in serially collected animal tissues: An example using tail hairs from African elephants. Chemical Geology, 2009, 267, 3-11.	3.3	36
48	Orphaned female elephant social bonds reflect lack of access to mature adults. Scientific Reports, 2017, 7, 14408.	3.3	35
49	Increasing conservation translocation success by building social functionality in released populations. Global Ecology and Conservation, 2019, 18, e00604.	2.1	35
50	New elephant crisis in Asia—Early warning signs from Myanmar. PLoS ONE, 2018, 13, e0194113.	2.5	35
51	Pairing camera traps and acoustic recorders to monitor the ecological impact of human disturbance. Global Ecology and Conservation, 2018, 16, e00493.	2.1	34
52	Elephant behavior toward the dead: A review and insights from field observations. Primates, 2020, 61, 119-128.	1.1	34
53	Population Genetic Structure of Savannah Elephants in Kenya: Conservation and Management Implications. Journal of Heredity, 2008, 99, 443-452.	2.4	33
54	The Influence of Social Structure, Habitat, and Host Traits on the Transmission of Escherichia coli in Wild Elephants. PLoS ONE, 2014, 9, e93408.	2.5	32

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55	Effects of Economic Downturns on Mortality of Wild African Elephants. Conservation Biology, 2011, 25, 1002-1009.	4.7	30
56	Estimating age of immobilized elephants from teeth impressions using dental silicon. African Journal of Ecology, 2005, 43, 215-219.	0.9	29
57	Graph theory illustrates spatial and temporal features that structure elephant rest locations and reflect risk perception. Ecography, 2017, 40, 598-605.	4.5	29
58	Applying network theory to animal movements to identify properties of landscape space use. Ecological Applications, 2018, 28, 854-864.	3.8	29
59	Employing participatory surveys to monitor the illegal killing of elephants across diverse land uses in Laikipiaâ€"Samburu, Kenya. African Journal of Ecology, 2010, 48, 972-983.	0.9	27
60	Rising ivory prices threaten elephants. Nature, 2011, 476, 282-283.	27.8	26
61	Orphaning and natal group dispersal are associated with social costs in female elephants. Animal Behaviour, 2018, 143, 1-8.	1.9	26
62	Assessing species occurrence and speciesâ€"specific use patterns of bais (forest clearings) in <scp>C</scp>entral <scp>A</scp>frica with camera traps. African Journal of Ecology, 2014, 52, 59-68.	0.9	25
63	Demography of a forest elephant population. PLoS ONE, 2018, 13, e0192777.	2.5	25
64	Movement reveals scale dependence in habitat selection of a large ungulate. Ecological Applications, 2016, 26, 2746-2757.	3.8	24
65	Movement reveals reproductive tactics in male elephants. Journal of Animal Ecology, 2020, 89, 57-67.	2.8	23
66	Fineâ€"scale genetic correlates to condition and migration in a wild cervid. Evolutionary Applications, 2014, 7, 937-948.	3.1	22
67	Predation risk across a dynamic landscape: effects of anthropogenic land use, natural landscape features, and prey distribution. Landscape Ecology, 2018, 33, 157-170.	4.2	22
68	Inter-generational change in African elephant range use is associated with poaching risk, primary productivity and adult mortality. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180286.	2.6	22
69	Anthropogenic noise in <scp>US</scp> national parks â€" sources and spatial extent. Frontiers in Ecology and the Environment, 2019, 17, 559-564.	4.0	22
70	Landscapeâ€"scale habitat response of African elephants shows strong selection for foraging opportunities in a human dominated ecosystem. Ecography, 2020, 43, 149-160.	4.5	22
71	Forecasting Ecological Genomics: High-Tech Animal Instrumentation Meets High-Throughput Sequencing. PLoS Biology, 2016, 14, e1002350.	5.6	22
72	Environmental dynamics and anthropogenic development alter philopatry and spaceâ€"use in a North American cervid. Diversity and Distributions, 2016, 22, 547-557.	4.1	21

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73	Effects of social structure and management on risk of disease establishment in wild pigs. Journal of Animal Ecology, 2021, 90, 820-833.	2.8	21
74	Characterizing the landscape of movement to identify critical wildlife habitat and corridors. Conservation Biology, 2021, 35, 346-359.	4.7	19
75	Using diel movement behavior to infer foraging strategies related to ecological and social factors in elephants. Movement Ecology, 2013, 1, 13.	2.8	18
76	Elliptical <scp>T</scp>ime‐<scp>D</scp>ensity model to estimate wildlife utilization distributions. Methods in Ecology and Evolution, 2014, 5, 780-790.	5.2	18
77	Defining an epidemiological landscape that connects movement ecology to pathogen transmission and pace‐of‐life. Ecology Letters, 2022, 25, 1760-1782.	6.4	18
78	Behavioral and Demographic Responses of Mule Deer to Energy Development on Winter Range. Wildlife Monographs, 2021, 208, 1-37.	3.0	17
79	Modeling anthropogenic noise propagation using the Sound Mapping Tools ArcGIS toolbox. Environmental Modelling and Software, 2017, 97, 56-60.	4.5	16
80	A model for leveraging animal movement to understand spatio‐temporal disease dynamics. Ecology Letters, 2022, 25, 1290-1304.	6.4	16
81	Poaching of African elephants indirectly decreases population growth through lowered orphan survival. Current Biology, 2021, 31, 4156-4162.e5.	3.9	15
82	Differentiation in mineral constituents in elephant selected versus unselected water and soil resources at Central African bais (forest clearings). European Journal of Wildlife Research, 2014, 60, 377-382.	1.4	14
83	A framework for understanding the architecture of collective movements using pairwise analyses of animal movement data. Journal of the Royal Society Interface, 2011, 8, 322-333.	3.4	13
84	Optimizing the positioning of wildlife crossing structures using GPS telemetry. Journal of Applied Ecology, 2018, 55, 2055-2063.	4.0	13
85	The relationship between anthropogenic light and noise in U.S. national parks. Landscape Ecology, 2020, 35, 1371-1384.	4.2	13
86	Spatial variation in direct and indirect contact rates at the wildlife-livestock interface for informing disease management. Preventive Veterinary Medicine, 2021, 194, 105423.	1.9	13
87	Socio‐ecological drivers of public conservation voting: Restoring gray wolves to <scp>C</scp>olorado, <scp>USA</scp>. Ecological Applications, 2022, 32, e2532.	3.8	12
88	Varying behavioral responses of wildlife to motorcycle traffic. Global Ecology and Conservation, 2020, 21, e00844.	2.1	11
89	Forward and inverse methods for extracting climate and diet information from stable isotope profiles in proboscidean molars. Quaternary International, 2020, 557, 92-109.	1.5	11
90	High-resolution stable isotope profiles of modern elephant (Loxodonta africana) tusk dentin and tail hair from Kenya: Implications for identifying seasonal variability in climate, ecology, and diet in ancient proboscideans. Palaeogeography, Palaeoclimatology, Palaeoecology, 2020, 559, 109962.	2.3	10

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91	Accounting for animal movement improves vaccination strategies against wildlife disease in heterogeneous landscapes. Ecological Applications, 2022, 32, e2568.	3.8	10
92	Strongylid infection varies with age, sex, movement and social factors in wild African elephants. Parasitology, 2020, 147, 348-359.	1.5	9
93	Multi‐level movement response of invasive wild pigs (<scp><i>Sus scrofa</i></scp>) to removal. Pest Management Science, 2021, 77, 85-95.	3.4	9
94	A global community‐sourced assessment of the state of conservation technology. Conservation Biology, 2022, 36, .	4.7	9
95	The elephant in the room: Madagascar's rosewood stocks and stockpiles. Conservation Letters, 2020, 13, e12714.	5.7	8
96	Entry and aggregation at a Central African bai reveal social patterns in the elusive forest elephant Loxodonta cyclotis. Animal Behaviour, 2021, 171, 77-85.	1.9	8
97	Differential influence of human impacts on age‐specific demography underpins trends in an African elephant population. Ecosphere, 2021, 12, e03720.	2.2	8
98	Risk perception and tolerance shape variation in agricultural use for a transboundary elephant population. Journal of Animal Ecology, 2022, 91, 112-123.	2.8	8
99	Changes in circadian activity patterns of a wildlife community post high-intensity energy development. Journal of Mammalogy, 2017, , .	1.3	7
100	Alarm call modification by prairie dogs in the presence of juveniles. Journal of Ethology, 2019, 37, 167-174.	0.8	7
101	Modeling anthropogenic noise impacts on animals in natural areas. Landscape and Urban Planning, 2018, 180, 76-84.	7.5	6
102	Insights on the effect of aircraft traffic on avian vocal activity. Ibis, 2021, 163, 353-365.	1.9	6
103	Some Memories Never Fade: Inferring Multi-Scale Memory Effects on Habitat Selection of a Migratory Ungulate Using Step-Selection Functions. Frontiers in Ecology and Evolution, 2021, 9, .	2.2	6
104	Defining ecological and socially suitable habitat for the reintroduction of an apex predator. Global Ecology and Conservation, 2022, 38, e02192.	2.1	6
105	On-animal acoustic monitoring provides insight to ungulate foraging behavior. Journal of Mammalogy, 2019, 100, 1479-1489.	1.3	5
106	Predicting the risk of illegal activity and evaluating law enforcement interventions in the western Serengeti. Conservation Science and Practice, 2019, 1, e81.	2.0	5
107	Animal-Borne Anti-Poaching System. , 2019, , .		5
108	Landscape Dynamics (landDX) an open-access spatial-temporal database for the Kenya-Tanzania borderlands. Scientific Data, 2022, 9, 8.	5.3	5

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109	Simple metrics to characterize inter‐individual and temporal variation in habitat selection behaviour. Journal of Animal Ecology, 2022, 91, 1693-1706.	2.8	5
110	Illegal wildlife trade: Look to the elephants. Science, 2016, 353, 1507-1507.	12.6	4
111	Vocal characteristics of prairie dog alarm calls across an urban noise gradient. Behavioral Ecology, 2020, 31, 393-400.	2.2	4
112	Noise and landscape features influence habitat use of mammalian herbivores in a natural gas field. Journal of Animal Ecology, 2021, 90, 875-885.	2.8	4
113	Parallel Pandemics Illustrate the Need for One Health Solutions. Frontiers in Microbiology, 2021, 12, 718546.	3.5	4
114	Identifying conservation technology needs, barriers, and opportunities. Scientific Reports, 2022, 12, 4802.	3.3	3
115	Movement behaviour after birth demonstrates precocial abilities of African savannah elephant, Loxodonta africana, calves. Animal Behaviour, 2022, 187, 331-353.	1.9	2
116	Detecting community structure in wild populations: a simulation study based on male elephant, Loxodonta africana, data. Animal Behaviour, 2021, 174, 127-148.	1.9	1
117	Evidence of strong spatial segregation between elephant subpopulations in the contiguous Laikipia–Samburu ecosystem in Kenya. African Journal of Ecology, 2016, 54, 261-264.	0.9	0