Charles L Nunn

List of Publications by Year
in descending order

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133	9,438	57719	48277
papers	citations	44 h-index	88 g-index

143	143	143	8302
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Social Organization and Parasite Risk in Mammals: Integrating Theory and Empirical Studies. Annual Review of Ecology, Evolution, and Systematics, 2003, 34, 517-547.	3.8	625
2	The evolution of self-control. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2140-8.	3.3	602
3	The 10kTrees website: A new online resource for primate phylogeny. Evolutionary Anthropology, 2010, 19, 114-118.	1.7	555
4	Comparative Tests of Parasite Species Richness in Primates. American Naturalist, 2003, 162, 597-614.	1.0	315
5	On sexual dimorphism in immune function. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 61-69.	1.8	289
6	Infectious Diseases and Extinction Risk in Wild Mammals. Conservation Biology, 2007, 21, 1269-1279.	2.4	258
7	Pathogens as drivers of population declines: The importance of systematic monitoring in great apes and other threatened mammals. Biological Conservation, 2006, 131, 325-337.	1.9	235
8	The number of males in primate social groups: a comparative test of the socioecological model. Behavioral Ecology and Sociobiology, 1999, 46, 1-13.	0.6	179
9	Patterns of host specificity and transmission among parasites of wild primates. International Journal for Parasitology, 2005, 35, 647-657.	1.3	178
10	Parasite species richness in carnivores: effects of host body mass, latitude, geographical range and population density. Global Ecology and Biogeography, 2007, 16, 496-509.	2.7	178
11	Do Animals Living in Larger Groups Experience Greater Parasitism? A Meta-Analysis. American Naturalist, 2012, 180, 70-82.	1.0	176
12	Sociality and health: impacts of sociality on disease susceptibility and transmission in animal and human societies. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140116.	1.8	169
13	Latitudinal gradients of parasite species richness in primates. Diversity and Distributions, 2005, 11, 249-256.	1.9	166
14	Community structure and the spread of infectious disease in primate social networks. Evolutionary Ecology, 2012, 26, 779-800.	0.5	154
15	Comparative tests of reproductive skew in male primates: the roles of demographic factors and incomplete control. Behavioral Ecology and Sociobiology, 2006, 60, 695-706.	0.6	150
16	PHYLOGENETIC ANALYSIS OF THE ECOLOGY AND EVOLUTION OF MAMMALIAN SLEEP. Evolution; International Journal of Organic Evolution, 2008, 62, 1764-1776.	1.1	149
17	Phylogenetic rate shifts in feeding time during the evolution of Homo. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14555-14559.	3.3	144
18	Introduced Species, Disease Ecology, and Biodiversityâ€“Disease Relationships. Trends in Ecology and Evolution, 2017, 32, 41-54.	4.2	135

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19	Phylogenetic host specificity and understanding parasite sharing in primates. Ecology Letters, 2012, 15, 1370-1377.	3.0	131
20	Infectious disease and group size: more than just a numbers game. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140111.	1.8	130
21	Female reproductive synchrony predicts skewed paternity across primates. Behavioral Ecology, 2008, 19, 1150-1158.	1.0	129
22	Sex and social evolution in primates. , 1999, , 204-240.		129
23	The macroecology of infectious diseases: a new perspective on globalâ€scale drivers of pathogen distributions and impacts. Ecology Letters, 2016, 19, 1159-1171.	3.0	126
24	The global mammal parasite database: An online resource for infectious disease records in wild primates. Evolutionary Anthropology, 2005, 14, 1-2.	1.7	117
25	Do threatened hosts have fewer parasites? A comparative study in primates. Journal of Animal Ecology, 2007, 76, 304-314.	1.3	112
26	Centrality in primateâ€“parasite networks reveals the potential for the transmission of emerging infectious diseases to humans. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7738-7741.	3.3	109
27	Parasite resistance and the adaptive significance of sleep. BMC Evolutionary Biology, 2009, 9, 7.	3.2	108
28	Innovative Approaches to the Relationship Between Diet and Mandibular Morphology in Primates. International Journal of Primatology, 2012, 33, 632-660.	0.9	104
29	Parasites and the Evolutionary Diversification of Primate Clades. American Naturalist, 2004, 164, S90-S103.	1.0	102
30	Global Mammal Parasite Database version 2.0. Ecology, 2017, 98, 1476-1476.	1.5	98
31	Sleep intensity and the evolution of human cognition. Evolutionary Anthropology, 2015, 24, 225-237.	1.7	95
32	Sexual dimorphism in immunity across animals: a metaâ€analysis. Ecology Letters, 2018, 21, 1885-1894.	3.0	91
33	Patterns of participation and free riding in territorial conflicts among ringtailed lemurs (Lemur) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.6	87
34	A comparative study of white blood cell counts and disease risk in carnivores. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 347-356.	1.2	82
35	A COMPARATIVE STUDY OF LEUKOCYTE COUNTS AND DISEASE RISK IN PRIMATES. Evolution; International Journal of Organic Evolution, 2002, 56, 177-190.	1.1	80
36	The Spread of Fecally Transmitted Parasites in Socially-Structured Populations. PLoS ONE, 2011, 6, e21677.	1.1	80

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37	Sexual selection and exaggerated sexual swellings of female primates. , 2004, , 71-89.		79
38	Does habitat disturbance increase infectious disease risk for primates?. Ecology Letters, 2013, 16, 656-663.	3.0	78
39	Shining evolutionary light on human sleep and sleep disorders. Evolution, Medicine and Public Health, 2016, 2016, 227-243.	1.1	78
40	Hadza sleep biology: Evidence for flexible sleepâ€wake patterns in hunterâ€gatherers. American Journal of Physical Anthropology, 2017, 162, 573-582.	2.1	75
41	Ranging patterns and parasitism in primates. Biology Letters, 2006, 2, 351-354.	1.0	72
42	Malaria infection and host behavior: a comparative study of Neotropical primates. Behavioral Ecology and Sociobiology, 2005, 59, 30-37.	0.6	71
43	Social evolution in primates: the relative roles of ecology and intersexual conflict. , 2000, , 388-420.		65
44	Potential Parasite Transmission in Multi-Host Networks Based on Parasite Sharing. PLoS ONE, 2015, 10, e0117909.	1.1	62
45	Host Longevity and Parasite Species Richness in Mammals. PLoS ONE, 2012, 7, e42190.	1.1	61
46	Simulating trait evolution for cross-cultural comparison. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 3807-3819.	1.8	55
47	Emerging infectious diseases and animal social systems. Evolutionary Ecology, 2008, 22, 519-543.	0.5	54
48	Host traits associated with species roles in parasite sharing networks. Oikos, 2019, 128, 23-32.	1.2	46
49	Chronotype variation drives night-time sentinel-like behaviour in hunterâ€“gatherers. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170967.	1.2	45
50	How quickly do brains catch up with bodies? A comparative method for detecting evolutionary lag. Proceedings of the Royal Society B: Biological Sciences, 1999, 266, 687-694.	1.2	44
51	Do transmission mechanisms or social systems drive cultural dynamics in socially structured populations?. Animal Behaviour, 2009, 77, 1515-1524.	0.8	44
52	Primate Disease Ecology in Comparative and Theoretical Perspective. American Journal of Primatology, 2012, 74, 497-509.	0.8	44
53	Characterizing the phylogenetic specialismâ€“generalism spectrum of mammal parasites. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20172613.	1.2	44
54	Does Sleep Play a Role in Memory Consolidation? A Comparative Test. PLoS ONE, 2009, 4, e4609.	1.1	44

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55	Quantitative uniqueness of human brain evolution revealed through phylogenetic comparative analysis. ELife, 2019, 8, .	2.8	44
56	Segmented sleep in a nonelectric, smallâ€scale agricultural society in Madagascar. American Journal of Human Biology, 2017, 29, e22979.	0.8	43
57	A global gap analysis of infectious agents in wild primates. Diversity and Distributions, 2007, 13, 561-572.	1.9	42
58	The sociality–health–fitness nexus: synthesis, conclusions and future directions. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140115.	1.8	41
59	Sleep in a comparative context: Investigating how human sleep differs from sleep in other primates. American Journal of Physical Anthropology, 2018, 166, 601-612.	2.1	41
60	Females drive primate social evolution. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, S101-3.	1.2	40
61	Behavioural defences against sexually transmitted diseases in primatesâ˜†. Animal Behaviour, 2003, 66, 37-48.	0.8	39
62	Sexual selection, behaviour and sexually transmitted diseases. , 2004, , 117-130.		39
63	Interacting effects of land use and climate on rodent-borne pathogens in central Kenya. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160116.	1.8	39
64	The Phylogeny of Sleep Database: A New Resource for Sleep Scientists. The Open Sleep Journal, 2007, 1, 11-14.	0.4	36
65	Identifying future zoonotic disease threats. Evolution, Medicine and Public Health, 2013, 2013, 27-36.	1.1	34
66	Infectious disease, behavioural flexibility and the evolution of culture in primates. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20140862.	1.2	34
67	Shared resources and disease dynamics in spatially structured populations. Ecological Modelling, 2014, 272, 198-207.	1.2	33
68	Effect of urban habitat use on parasitism in mammals: a meta-analysis. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20200397.	1.2	32
69	Behavioural ecology and infectious disease: implications for conservation of biodiversity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180054.	1.8	31
70	Cultural inheritance or cultural diffusion of religious violence? A quantitative case study of the Radical Reformation. Religion, Brain and Behavior, 2013, 3, 3-15.	0.4	30
71	Assessing sources of error in comparative analyses of primate behavior: Intraspecific variation in group size and the social brainÂhypothesis. Journal of Human Evolution, 2016, 94, 126-133.	1.3	30
72	A Comparative Approach to Reconstructing the Socioecology of Extinct Primates. , 2002, , 159-215.		29

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73	Conservation, biodiversity and infectious disease: scientific evidence and policy implications. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160124.	1.8	29
74	Estimating parasite host range. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171250.	1.2	29
75	Dynamic vs. static social networks in models of parasite transmission: predicting <scp>C</scp>ryptosporidium spread in wild lemurs. Journal of Animal Ecology, 2017, 86, 419-433.	1.3	27
76	MUTUALISM OR PARASITISM? USING A PHYLOGENETIC APPROACH TO CHARACTERIZE THE OXPECKERâ€UNGULATE RELATIONSHIP. Evolution; International Journal of Organic Evolution, 2011, 65, 1297-1304.	1.1	25
77	Phylogenetic Prediction to Identify â€œEvolutionary Singularitiesâ€•, 2014, , 481-514.		20
78	What is segmented sleep? Actigraphy field validation for daytime sleep and nighttime wake. Sleep Health, 2016, 2, 341-347.	1.3	20
79	Fecal contamination, parasite risk, and waterhole use by wild animals in a dry deciduous forest. Behavioral Ecology and Sociobiology, 2019, 73, 1.	0.6	20
80	A simulation test of Smith's â€œdegrees of freedomâ€•correction for comparative studies. American Journal of Physical Anthropology, 1995, 98, 355-367.	2.1	18
81	Metabarcoding of eukaryotic parasite communities describes diverse parasite assemblages spanning the primate phylogeny. Molecular Ecology Resources, 2020, 20, 204-215.	2.2	18
82	Mating Competition, Promiscuity, and Life History Traits as Predictors of Sexually Transmitted Disease Risk in Primates. International Journal of Primatology, 2014, 35, 764-786.	0.9	17
83	Environmental influences on the skin microbiome of humans and cattle in rural Madagascar. Evolution, Medicine and Public Health, 2017, 2017, 144-153.	1.1	17
84	Does the moon influence sleep in small-scale societies?. Sleep Health, 2018, 4, 509-514.	1.3	17
85	Food insecurity related to agricultural practices and household characteristics in rural communities of northeast Madagascar. Food Security, 2021, 13, 1393-1405.	2.4	17
86	The cost of deep sleep: Environmental influences on sleep regulation are greater for diurnal lemurs. American Journal of Physical Anthropology, 2018, 166, 578-589.	2.1	14
87	Sleep influences cognitive performance in lemurs. Animal Cognition, 2019, 22, 697-706.	0.9	14
88	Large wildlife removal drives immune defence increases in rodents. Functional Ecology, 2016, 30, 799-807.	1.7	13
89	Activity patterns in seven captive lemur species: Evidence of cathemerality in Varecia and Lemur catta?. American Journal of Primatology, 2017, 79, e22648.	0.8	13
90	Does selection for short sleep duration explain human vulnerability to Alzheimerâ€™s disease?. Evolution, Medicine and Public Health, 2017, 2017, 39-46.	1.1	13

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91	Antibacterial soap use impacts skin microbial communities in rural Madagascar. PLoS ONE, 2018, 13, e0199899.	1.1	13
92	Effective Network Size Predicted From Simulations of Pathogen Outbreaks Through Social Networks Provides a Novel Measure of Structure-Standardized Group Size. Frontiers in Veterinary Science, 2018, 5, 71.	0.9	13
93	Predictions of primateâ€“parasite coextinction. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200355.	1.8	13
94	One health disparities and COVID-19. Evolution, Medicine and Public Health, 2021, 9, 70-77.	1.1	13
95	Interactions between Micro- and Macroparasites Predict Microparasite Species Richness across Primates. American Naturalist, 2014, 183, 494-505.	1.0	12
96	Microparasites and Placental Invasiveness in Eutherian Mammals. PLoS ONE, 2015, 10, e0132563.	1.1	12
97	Identifying wildlife reservoirs of neglected taeniid tapeworms: Non-invasive diagnosis of endemic Taenia serialis infection in a wild primate population. PLoS Neglected Tropical Diseases, 2017, 11, e0005709.	1.3	12
98	Primate sleep in phylogenetic perspective. , 2001, , 123-144.		11
99	Evolutionary dynamics of sexual size dimorphism in non-volant mammals following their independent colonization of Madagascar. Scientific Reports, 2019, 9, 1454.	1.6	11
100	A comparison of diversity estimators applied to a database of hostâ€“parasite associations. Ecography, 2020, 43, 1316-1328.	2.1	10
101	Evolutionary change in physiological phenotypes along the human lineage. Evolution, Medicine and Public Health, 2016, 2016, 312-324.	1.1	9
102	Water choice as a counterstrategy to faecally transmitted disease: an experimental study inÂcaptiveÂlemurs. Behaviour, 2017, 154, 1239-1258.	0.4	9
103	Network size, structure, and pathogen transmission: aÂsimulation study comparing different community detection algorithms. Behaviour, 2018, 155, 639-670.	0.4	9
104	Speeding in the slow lane: Phylogenetic comparative analyses reveal that not all human life history traits are exceptional. Journal of Human Evolution, 2019, 130, 36-44.	1.3	9
105	Chimpanzee (Pan troglodytes schweinfurthii) Group Sleep and Pathogen-Vector Avoidance: Experimental Support for the Encounter-Dilution Effect. International Journal of Primatology, 2019, 40, 647-659.	0.9	9
106	The changing ecology of primate parasites: Insights from wildâ€captive comparisons. American Journal of Primatology, 2019, 81, e22991.	0.8	8
107	Effects of land use, habitat characteristics, and small mammal community composition on Leptospira prevalence in northeast Madagascar. PLoS Neglected Tropical Diseases, 2020, 14, e0008946.	1.3	8
108	Estimating infection prevalence: Best practices and their theoretical underpinnings. Ecology and Evolution, 2018, 8, 6738-6747.	0.8	7

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109	Temporal patterns of waterhole use as a predator avoidance strategy. Journal of Mammalogy, 2020, 101, 574-581.	0.6	7
110	Water Availability Impacts Habitat Use by Red-Fronted Lemurs (Eulemur rufifrons): An Experimental and Observational Study. International Journal of Primatology, 2020, 41, 61-80.	0.9	7
111	Comparing transmission potential networks based on social network surveys, close contacts and environmental overlap in rural Madagascar. Journal of the Royal Society Interface, 2022, 19, 20210690.	1.5	7
112	Investigating evolutionary lag using the species-pairs evolutionary lag test (SPELT). Evolution; International Journal of Organic Evolution, 2015, 69, 245-253.	1.1	6
113	The Global Synanthrome Project: A Call for an Exhaustive Study of Human Associates. Trends in Parasitology, 2017, 33, 4-7.	1.5	6
114	Epidemiological transitions in human evolution and the richness of viruses, helminths, and protozoa. Evolution, Medicine and Public Health, 2021, 9, 139-148.	1.1	6
115	Enriched sleep environments lengthen lemur sleep duration. PLoS ONE, 2021, 16, e0253251.	1.1	6
116	Ecological constraints on mammalian sleep architecture. , 2001, , 12-33.		5
117	Informatics approaches to develop dynamic meta-analyses. Evolutionary Ecology, 2012, 26, 1275-1276.	0.5	5
118	Eulerian videography technology improves classification of sleep architecture in primates. Primates, 2019, 60, 467-475.	0.7	5
119	Gibbon sleep quantified: the influence of lunar phase and meteorological variables on activity in Hylobates moloch and Hylobates pileatus. Primates, 2021, 62, 749-759.	0.7	5
120	Primate malarias as a model for cross-species parasite transmission. ELife, 2022, 11, .	2.8	5
121	A bird's-eye view of the function of sleep. , 2001, , 145-171.		3
122	Pathogen Flow: What We Need to Know. American Journal of Primatology, 2012, 74, 1084-1087.	0.8	3
123	The evolution of wakefulness: From reptiles to mammals. , 2001, , 172-196.		2
124	Connecting evolution, medicine, and public health. Evolutionary Anthropology, 2015, 24, 127-129.	1.7	2
125	Effects of host extinction and vector preferences on vector-borne disease risk in phylogenetically structured host-hector communities. PLoS ONE, 2021, 16, e0256456.	1.1	2
126	Schooling by continuously active fishes: Clues to sleep's ultimate function. , 2001, , 57-85.		1

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127	Evolutionary medicine of sleep disorders: Toward a science of sleep duration. , 2001, , 107-122.		1
128	The evolution of REM sleep. , 2001, , 197-217.		1
129	Fishing for sleep. , 2001, , 238-266.		1
130	Sleep in insects. , 2001, , 34-56.		1
131	Toward an understanding of the function of sleep: New insights from mouse genetics. , 2001, , 218-237.		1
132	The 1918 influenza pandemic: Ecological, historical, and evolutionary perspectives. Evolution, Medicine and Public Health, 2018, 2018, 199-200.	1.1	1
133	What exactly is it that sleeps? The evolution, regulation, and organization of an emergent network property. , 2001, , 86-106.		0