

# Nathaniel J Dominy

## List of Publications by Year in descending order

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118  
papers

7,409  
citations

57758

44  
h-index

58581

82  
g-index

125  
all docs

125  
docs citations

125  
times ranked

9077  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diet and the evolution of human amylase gene copy number variation. <i>Nature Genetics</i> , 2007, 39, 1256-1260.	21.4	1,202
2	Ecological importance of trichromatic vision to primates. <i>Nature</i> , 2001, 410, 363-366.	27.8	456
3	Global patterns of leaf mechanical properties. <i>Ecology Letters</i> , 2011, 14, 301-312.	6.4	418
4	Mechanical Defences to Herbivory. <i>Annals of Botany</i> , 2000, 86, 913-920.	2.9	380
5	Evolutionary trends in host physiology outweigh dietary niche in structuring primate gut microbiomes. <i>ISME Journal</i> , 2019, 13, 576-587.	9.8	236
6	Mechanical Properties of Plant Underground Storage Organs and Implications for Dietary Models of Early Hominins. <i>Evolutionary Biology</i> , 2008, 35, 159-175.	1.1	209
7	Functional ecology and evolution of hominoid molar enamel thickness: <i>Pan troglodytes schweinfurthii</i> and <i>Pongo pygmaeus wurmbii</i> . <i>Journal of Human Evolution</i> , 2008, 55, 60-74.	2.6	190
8	The sensory ecology of primate food perception. <i>Evolutionary Anthropology</i> , 2001, 10, 171-186.	3.4	184
9	Global phylogeography and ancient evolution of the widespread human gut virus crAssphage. <i>Nature Microbiology</i> , 2019, 4, 1727-1736.	13.3	184
10	Evolution of the human pygmy phenotype. <i>Trends in Ecology and Evolution</i> , 2009, 24, 218-225.	8.7	143
11	Field Kit to Characterize Physical, Chemical and Spatial Aspects of Potential Primate Foods. <i>Folia Primatologica</i> , 2001, 72, 11-25.	0.7	132
12	EVOLUTION AND FUNCTION OF ROUTINE TRICHROMATIC VISION IN PRIMATES. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 2636-2643.	2.3	127
13	Foraging and ranging behavior during a fallback episode: <i>Hylobates albibarbis</i> and <i>Pongo pygmaeus wurmbii</i> compared. <i>American Journal of Physical Anthropology</i> , 2009, 140, 716-726.	2.1	121
14	Fruits, Fingers, and Fermentation: The Sensory Cues Available to Foraging Primates. <i>Integrative and Comparative Biology</i> , 2004, 44, 295-303.	2.0	105
15	Meissner corpuscles and somatosensory acuity: The prehensile appendages of primates and elephants. <i>The Anatomical Record</i> , 2004, 281A, 1138-1147.	1.8	104
16	Adaptive function of soil consumption: an in vitro study modeling the human stomach and small intestine. <i>Journal of Experimental Biology</i> , 2004, 207, 319-324.	1.7	97
17	Historical contingency in the evolution of primate color vision. <i>Journal of Human Evolution</i> , 2003, 44, 25-45.	2.6	96
18	The impact of agricultural emergence on the genetic history of African rainforest hunter-gatherers and agriculturalists. <i>Nature Communications</i> , 2014, 5, 3163.	12.8	96

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19	Stable carbon and nitrogen isotope enrichment in primate tissues. <i>Oecologia</i> , 2010, 164, 611-626.	2.0	95
20	Why Aye-eyes See Blue. <i>American Journal of Primatology</i> , 2012, 74, 185-192.	1.7	91
21	Tree climbing and human evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1237-1242.	7.1	91
22	Adaptive, convergent origins of the pygmy phenotype in African rainforest hunter-gatherers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3596-603.	7.1	91
23	Collapse of an ecological network in Ancient Egypt. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14472-14477.	7.1	81
24	Why are young leaves red?. <i>Oikos</i> , 2002, 98, 163-176.	2.7	80
25	Adaptation to hard-object feeding in sea otters and hominins. <i>Journal of Human Evolution</i> , 2011, 61, 89-96.	2.6	72
26	Hominins living on the sedge. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20171-20172.	7.1	69
27	Hunter-gatherer residential mobility and the marginal value of rainforest patches. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3097-3102.	7.1	65
28	Genomic analysis reveals hidden biodiversity within colugos, the sister group to primates. <i>Science Advances</i> , 2016, 2, e1600633.	10.3	64
29	The isotopic ecology of African mole rats informs hypotheses on the evolution of human diet. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 1723-1730.	2.6	63
30	Mechanics and chemistry of rain forest leaves: canopy and understorey compared*. <i>Journal of Experimental Botany</i> , 2003, 54, 2007-2014.	4.8	61
31	Ecological consequences of scaling of chew cycle duration and daily feeding time in Primates. <i>Journal of Human Evolution</i> , 2009, 56, 570-585.	2.6	61
32	Explaining geographical variation in the isotope composition of mouse lemurs ( <i>Microcebus</i> ). <i>Journal of Biogeography</i> , 2011, 38, 2106-2121.	3.0	61
33	Bornean orangutans on the brink of protein bankruptcy. <i>Biology Letters</i> , 2012, 8, 333-336.	2.3	60
34	Primate communication in the pure ultrasound. <i>Biology Letters</i> , 2012, 8, 508-511.	2.3	60
35	Significance of color, calories, and climate to the visual ecology of catarrhines. <i>American Journal of Primatology</i> , 2004, 62, 189-207.	1.7	58
36	Social drive and the evolution of primate hearing. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 1860-1868.	4.0	58

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37	Convergence of human and Old World monkey gut microbiomes demonstrates the importance of human ecology over phylogeny. <i>Genome Biology</i> , 2019, 20, 201.	8.8	57
38	Light habitats and the role of polarized iridescence in the sensory ecology of neotropical nymphalid butterflies (Lepidoptera: Nymphalidae). <i>Journal of Experimental Biology</i> , 2007, 210, 788-799.	1.7	56
39	Food material properties and mandibular load resistance abilities in large-bodied hominoids. <i>Journal of Human Evolution</i> , 2008, 55, 604-616.	2.6	55
40	Do female tamarins use visual cues to detect fruit rewards more successfully than do males?. <i>Animal Behaviour</i> , 2003, 66, 829-837.	1.9	53
41	Effect of color vision phenotype on the foraging of wild white-faced capuchins, <i>Cebus capucinus</i> . <i>Behavioral Ecology</i> , 2007, 18, 292-297.	2.2	53
42	Extinction and ecological retreat in a community of primates. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 3597-3605.	2.6	51
43	Functional preservation and variation in the cone opsin genes of nocturnal tarsiers. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160075.	4.0	51
44	Cooperation and individuality among man-eating lions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19040-19043.	7.1	49
45	Evolution of the special senses in primates: Past, present, and future. <i>The Anatomical Record</i> , 2004, 281A, 1078-1082.	1.8	46
46	A natural history of human tree climbing. <i>Journal of Human Evolution</i> , 2014, 71, 105-118.	2.6	46
47	Food mechanical properties, feeding ecology, and the mandibular morphology of wild orangutans. <i>Journal of Human Evolution</i> , 2014, 75, 110-124.	2.6	42
48	Primate dietary ecology in the context of food mechanical properties. <i>Journal of Human Evolution</i> , 2016, 98, 103-118.	2.6	42
49	Monocot Leaves are Eaten Less than Dicot Leaves in Tropical Lowland Rain Forests: Correlations with Toughness and Leaf Presentation. <i>Annals of Botany</i> , 2008, 101, 1379-1389.	2.9	41
50	Plasticity in the Human Gut Microbiome Defies Evolutionary Constraints. <i>MSphere</i> , 2019, 4, .	2.9	40
51	Color as an Indicator of Food Quality to Anthropoid Primates: Ecological Evidence and an Evolutionary Scenario. , 2004, , 615-644.		40
52	Light levels used during feeding by primate species with different color vision phenotypes. <i>Behavioral Ecology and Sociobiology</i> , 2005, 58, 618-629.	1.4	36
53	In Tropical Lowland Rain Forests Monocots have Tougher Leaves than Dicots, and Include a New Kind of Tough Leaf. <i>Annals of Botany</i> , 2008, 101, 1363-1377.	2.9	36
54	Seed-spitting Primates and the Conservation and Dispersion of Large-seeded Trees. <i>International Journal of Primatology</i> , 2005, 26, 631-649.	1.9	34

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55	Inferred L/M cone opsin polymorphism of ancestral tarsiers sheds dim light on the origin of anthropoid primates. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20130189.	2.6	34
56	Technical Note: Calcium and carbon stable isotope ratios as paleodietary indicators. <i>American Journal of Physical Anthropology</i> , 2014, 154, 633-643.	2.1	34
57	Polymorphism of visual pigment genes in the muriqui (Primates, Atelidae). <i>Molecular Ecology</i> , 2005, 15, 551-558.	3.9	32
58	Phenotypic Plasticity of Climbing-Related Traits in the Ankle Joint of Great Apes and Rainforest Hunter-Gatherers. <i>Human Biology</i> , 2013, 85, 309-328.	0.2	32
59	Biodiversity of protists and nematodes in the wild nonhuman primate gut. <i>ISME Journal</i> , 2020, 14, 609-622.	9.8	32
60	How chimpanzees integrate sensory information to select figs. <i>Interface Focus</i> , 2016, 6, 20160001.	3.0	31
61	A novel method for comparative analysis of retinal specialization traits from topographic maps. <i>Journal of Vision</i> , 2012, 12, 13-13.	0.3	30
62	A Noninvasive Method for Estimating Nitrogen Balance in Free-Ranging Primates. <i>International Journal of Primatology</i> , 2012, 33, 567-587.	1.9	30
63	Visual ecology of true lemurs suggests a cathemeral origin for the primate cone opsin polymorphism. <i>Functional Ecology</i> , 2016, 30, 932-942.	3.6	27
64	Dietary analysis I: Food physics. , 2003, , 184-198.		26
65	Merging Resource Availability with Isotope Mixing Models: The Role of Neutral Interaction Assumptions. <i>PLoS ONE</i> , 2011, 6, e22015.	2.5	26
66	Alcohol discrimination and preferences in two species of nectar-feeding primate. <i>Royal Society Open Science</i> , 2016, 3, 160217.	2.4	25
67	A comparison of auditory brainstem responses and behavioral estimates of hearing sensitivity in <i>Lemur catta</i> and <i>Nycticebus coucang</i> . <i>American Journal of Primatology</i> , 2010, 72, 217-233.	1.7	24
68	Expression and Evolution of Short Wavelength Sensitive Opsins in Colugos: A Nocturnal Lineage That Informs Debate on Primate Origins. <i>Evolutionary Biology</i> , 2013, 40, 542-553.	1.1	24
69	Ferment in the family tree. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 308-309.	7.1	24
70	Conservation Genetics of the Philippine Tarsier: Cryptic Genetic Variation Restructures Conservation Priorities for an Island Archipelago Primate. <i>PLoS ONE</i> , 2014, 9, e104340.	2.5	24
71	Footprint evidence of early hominin locomotor diversity at Laetoli, Tanzania. <i>Nature</i> , 2021, 600, 468-471.	27.8	24
72	Mount Pinatubo, Inflammatory Cytokines, and the Immunological Ecology of Aeta Hunter-Gatherers. <i>Human Biology</i> , 2013, 85, 231-250.	0.2	22

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73	Euarchontan Opsin Variation Brings New Focus to Primate Origins. <i>Molecular Biology and Evolution</i> , 2016, 33, 1029-1041.	8.9	22
74	A brief review of the recent evolution of the human mouth in physiological and nutritional contexts. <i>Physiology and Behavior</i> , 2006, 89, 36-38.	2.1	18
75	Receiver bias and the acoustic ecology of aye-ayes ( <i>Daubentonia madagascariensis</i> ). <i>Communicative and Integrative Biology</i> , 2012, 5, 637-640.	1.4	17
76	FUNCTIONAL MORPHOLOGY, STABLE ISOTOPES, AND HUMAN EVOLUTION: A MODEL OF CONSILIENCE. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 190-203.	2.3	17
77	Dichromatic vision in a fruit bat with diurnal proclivities: the Samoan flying fox ( <i>Pteropus</i> ). <i>Physiology</i> , 2014, 200, 1015-1022.	1.6	17
78	Niche convergence suggests functionality of the nocturnal fovea. <i>Frontiers in Integrative Neuroscience</i> , 2014, 8, 61.	2.1	16
79	Do Oxygen Isotope Values in Collagen Reflect the Ecology and Physiology of Neotropical Mammals?. <i>Frontiers in Ecology and Evolution</i> , 2015, 3, .	2.2	16
80	GPS and GIS Methods in an African Rain Forest: Applications to Tropical Ecology and Conservation. <i>Ecology and Society</i> , 2002, 5, .	0.9	16
81	Mummified baboons reveal the far reach of early Egyptian mariners. <i>ELife</i> , 2020, 9, .	6.0	16
82	Thermal Imaging of Aye-Ayes ( <i>Daubentonia madagascariensis</i> ) Reveals a Dynamic Vascular Supply During Haptic Sensation. <i>International Journal of Primatology</i> , 2012, 33, 588-597.	1.9	15
83	Baboons, Water, and the Ecology of Oxygen Stable Isotopes in an Arid Hybrid Zone. <i>Physiological and Biochemical Zoology</i> , 2012, 85, 421-430.	1.5	11
84	Architecture and functional ecology of the human gastrocnemius muscle-tendon unit. <i>Journal of Anatomy</i> , 2016, 228, 561-568.	1.5	11
85	Foraging Performance, Prosociality, and Kin Presence Do Not Predict Lifetime Reproductive Success in Batek Hunter-Gatherers. <i>Human Nature</i> , 2019, 30, 71-97.	1.6	11
86	EVOLUTION AND FUNCTION OF ROUTINE TRICHROMATIC VISION IN PRIMATES. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 2636.	2.3	10
87	Incidence of red leaves in the rainforest of Kibale National Park, Uganda: shade-tolerators and light-demanders compared. <i>African Journal of Ecology</i> , 2002, 40, 94-96.	0.9	8
88	Seed size and the evolution of leaf defences. <i>Journal of Ecology</i> , 2015, 103, 1057-1068.	4.0	8
89	The Sensory Systems of <i>Alouatta</i> : Evolution with an Eye to Ecology. , 2015, , 317-336.		8
90	Liminal Light and Primate Evolution. <i>Annual Review of Anthropology</i> , 2020, 49, 257-276.	1.5	6

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91	Carbon and strontium isotope ratios shed new light on the paleobiology and collapse of Theropithecus, a primate experiment in graminivory. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2021, 572, 110393.	2.3	6
92	Grit and consequence. <i>Evolutionary Anthropology</i> , 2021, 30, 375-384.	3.4	6
93	Sterile pyuria in a population of wild white-handed gibbons ( <i>Hylobates lar</i> ). <i>American Journal of Primatology</i> , 2009, 71, 880-883.	1.7	5
94	ASPM and the Evolution of Cerebral Cortical Size in a Community of New World Monkeys. <i>PLoS ONE</i> , 2012, 7, e44928.	2.5	5
95	The sluggard has no locusts: From persistent pest to irresistible icon. <i>People and Nature</i> , 2021, 3, 542-549.	3.7	5
96	Differentiating siliceous particulate matter in the diets of mammalian herbivores. <i>Methods in Ecology and Evolution</i> , 2022, 13, 2198-2208.	5.2	4
97	Primate Dental Enamel: What It Says about Diet. <i>Frontiers of Oral Biology</i> , 2009, 13, 44-48.	1.5	3
98	Phenotypic Plasticity of Climbing-Related Traits in the Ankle Joint of Great Apes and Rainforest Hunter-Gatherers. <i>Human Biology</i> , 2013, 85, 309.	0.2	3
99	New Guinea bone daggers were engineered to preserve social prestige. <i>Royal Society Open Science</i> , 2018, 5, 172067.	2.4	3
100	Validation of a Noninvasive Hair Trapping Method for Extractive-Foraging Primates. <i>Folia Primatologica</i> , 2018, 89, 415-422.	0.7	3
101	The promise of primatology fulfilled?. <i>American Journal of Physical Anthropology</i> , 2018, 166, 783-790.	2.1	3
102	Dietary analysis II: Food chemistry. , 2003, , 199-213.		2
103	Guest Editorial: Publication and Citation Trends in the International Journal of Primatology: 1980-2003. <i>International Journal of Primatology</i> , 2004, 25, 751-754.	1.9	2
104	Evolution of Sensory Receptor Specializations in the Glabrous Skin. , 2009, , 39-42.		2
105	Dietary analysis II: food chemistry. , 0, , 255-270.		2
106	Auditory sensitivity of the tufted capuchin ( <i>Sapajus apella</i> ), a test of allometric predictions. <i>Journal of the Acoustical Society of America</i> , 2017, 141, 4822-4831.	1.1	2
107	Tarsier Goggles: a virtual reality tool for experiencing the optics of a dark-adapted primate visual system. <i>Evolution: Education and Outreach</i> , 2019, 12, .	0.8	2
108	Peer review at the Ministry of Silly Walks. <i>Gait and Posture</i> , 2020, 82, 329-331.	1.4	2

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109	Dietary analysis I: food physics. , 0, , 237-254.		1
110	Close Encounters of the Bird Kind. Anthropology News, 2019, 60, e75.	0.1	1
111	Mechanical loading of primate fingers on vertical rock surfaces. South African Journal of Science, 2021, 117, .	0.7	1
112	A Study in Offspring Herds. Scientific American, 1921, 125, 46-47.	1.0	0
113	Title is missing!. International Journal of Primatology, 2003, 24, 919-920.	1.9	0
114	Reindeer Vision Explains the Benefits of a Glowing Nose. Frontiers for Young Minds, 2015, 3, .	0.8	0
115	Reply to Evans and Bar-Oz et al.: Recovering ecological pattern and process in Ancient Egypt. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E240-E240.	7.1	0
116	<i>Frankenstein</i> and the Horrors of Competitive Exclusion. BioScience, 0, , biw133.	4.9	0
117	Opsin genes of select treeshrews resolve ancestral character states within Scandentia. Royal Society Open Science, 2019, 6, 182037.	2.4	0
118	SacrÃ©s babouinsÂ!. Purlscience Fr, 2022, NÂ° 532 â€“ fÃ©vrier, 30-35.	0.0	0