Doug M Boyer

List of Publications by Year
in descending order

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104 papers	5,081 citations	70961 41 h-index	102304 66 g-index
108 all docs	108 docs citations	108 times ranked	2315 citing authors

#	Article	IF	Citations
1	Grasping Primate Origins. Science, 2002, 298, 1606-1610.	6.0	318
2	New Paleocene skeletons and the relationship of plesiadapiforms to crown-clade primates. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1159-1164.	3.3	242
3	Relief index of second mandibular molars is a correlate of diet among prosimian primates and other euarchontan mammals. Journal of Human Evolution, 2008, 55, 1118-1137.	1.3	194
4	Evolution of the Earliest Horses Driven by Climate Change in the Paleocene-Eocene Thermal Maximum. Science, 2012, 335, 959-962.	6.0	188
5	MORPHOSOURCE: ARCHIVING AND SHARING 3-D DIGITAL SPECIMEN DATA. The Paleontological Society Papers, 2016, 22, 157-181.	0.8	158
6	Convergent evolution of anthropoid-like adaptations in Eocene adapiform primates. Nature, 2009, 461, 1118-1121.	13.7	143
7	Comparing Dirichlet normal surface energy of tooth crowns, a new technique of molar shape quantification for dietary inference, with previous methods in isolation and in combination. American Journal of Physical Anthropology, 2011, 145, 247-261.	2.1	137
8	Algorithms to automatically quantify the geometric similarity of anatomical surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18221-18226.	3.3	122
9	Semicircular canal system in early primates. Journal of Human Evolution, 2009, 56, 315-327.	1.3	115
10	Dental topography of platyrrhines and prosimians: Convergence and contrasts. American Journal of Physical Anthropology, 2014, 153, 29-44.	2.1	111
11	Dental topography indicates ecological contraction of lemur communities. American Journal of Physical Anthropology, 2012, 148, 215-227.	2.1	108
12	Evidence of dietary differentiation among late Paleoceneâ€“early Eocene plesiadapids (Mammalia,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.1	106
13	Intrinsic hand proportions of euarchontans and other mammals: Implications for the locomotor behavior of plesiadapiforms. Journal of Human Evolution, 2008, 55, 278-299.	1.3	104
14	A New Fully Automated Approach for Aligning and Comparing Shapes. Anatomical Record, 2015, 298, 249-276.	0.8	104
15	Open data and digital morphology. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170194.	1.2	103
16	A radiation of arboreal basal eutherian mammals beginning in the Late Cretaceous of India. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16333-16338.	3.3	87
17	Fossil lemurs from Egypt and Kenya suggest an African origin for Madagascarâ€™s aye-aye. Nature Communications, 2018, 9, 3193.	5.8	87
18	Persistent homology transform for modeling shapes and surfaces. Information and Inference, 2014, 3, 310-344.	0.9	85

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19	Evolution of pedal grasping in Primates. Journal of Human Evolution, 2007, 53, 103-107.	1.3	83
20	The first major primate extinction: An evaluation of paleoecological dynamics of North American stem primates using a homology free measure of tooth shape. American Journal of Physical Anthropology, 2016, 159, 683-697.	2.1	83
21	A fossil primate of uncertain affinities from the earliest late Eocene of Egypt. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9712-9717.	3.3	81
22	The evolutionary radiation of plesiadapiforms. Evolutionary Anthropology, 2017, 26, 74-94.	1.7	79
23	Astragalar morphology of Afradapis, a large adapiform primate from the earliest late Eocene of Egypt. American Journal of Physical Anthropology, 2010, 143, 383-402.	2.1	78
24	Evidence for a Grooming Claw in a North American Adapiform Primate: Implications for Anthropoid Origins. PLoS ONE, 2012, 7, e29135.	1.1	77
25	Evaluating the Mitten-Gliding Hypothesis for Paromomyidae and Micromomyidae (Mammalia,) Tj ETQq1 1 0.784314 rgBT /Overlock 1 233-284.		76
26	1 Primate Origins and Supraordinal Relationships: Morphological Evidence. , 2007, , 831-859.		73
27	Introducing molaR: a New R Package for Quantitative Topographic Analysis of Teeth (and Other) Tj ETQq1 1 0.784314 rgBT /Overlock	1.0	71
28	Diet and dental topography in pitheciine seed predators. American Journal of Physical Anthropology, 2013, 150, 107-121.	2.1	68
29	Lumbar vertebral morphology of flying, gliding, and suspensory mammals: Implications for the locomotor behavior of the subfossil lemurs Palaeopropithecus and Babakotia. Journal of Human Evolution, 2014, 75, 40-52.	1.3	68
30	Earliest record of Platychoerops (Primates, Plesiadapidae), a new species from Mouras Quarry, Mont de Berru, France. American Journal of Physical Anthropology, 2012, 149, 329-346.	2.1	67
31	Hallucal grasping in Nycticebus coucang: further implications for the functional significance of a large peroneal process. Journal of Human Evolution, 2010, 58, 33-42.	1.3	66
32	Oldest known euarchontan tarsals and affinities of Paleocene Purgatorius to Primates. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1487-1492.	3.3	65
33	New fossils, systematics, and biogeography of the oldest known crown primate Teilhardina from the earliest Eocene of Asia, Europe, and North America. Journal of Human Evolution, 2019, 128, 103-131.	1.3	65
34	Primate tarsal bones from Egerkingen, Switzerland, attributable to the middle Eocene adapiformCaenopithecus lemuroides. PeerJ, 2015, 3, e1036.	0.9	64
35	New adapiform primate fossils from the late Eocene of Egypt. Historical Biology, 2018, 30, 204-226.	0.7	59
36	Inner Ear Evolution in Primates Through the Cenozoic: Implications for the Evolution of Hearing. Anatomical Record, 2012, 295, 615-631.	0.8	56

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37	Evolution and Allometry of Calcaneal Elongation in Living and Extinct Primates. PLoS ONE, 2013, 8, e67792.	1.1	54
38	A collection of non-human primate computed tomography scans housed in MorphoSource, a repository for 3D data. Scientific Data, 2016, 3, 160001.	2.4	51
39	Hands of early primates. American Journal of Physical Anthropology, 2013, 152, 33-78.	2.1	50
40	New fossils of the oldest North American euprimate Teilhardina brandti (Omomyidae) from the paleoceneâ€“eocene thermal maximum. American Journal of Physical Anthropology, 2011, 146, 281-305.	2.1	49
41	Physical activity alters limb bone structure but not entheseal morphology. Journal of Human Evolution, 2017, 107, 14-18.	1.3	47
42	New postcrania of Deccanolestes from the Late Cretaceous of India and their bearing on the evolutionary and biogeographic history of euarchontan mammals. Die Naturwissenschaften, 2010, 97, 365-377.	0.6	45
43	Telemetered electromyography of peroneus longus in Varecia variegata and Eulemur rubriventer: implications for the functional significance of a large peroneal process. Journal of Human Evolution, 2007, 53, 119-134.	1.3	42
44	Cranial anatomy of Paleocene and Eocene Labidolemur kayi (Mammalia: Apatotheria), and the relationships of the Apatemyidae to other mammals. Zoological Journal of the Linnean Society, 2010, 160, 773-825.	1.0	38
45	Patterns of astragalar fibular facet orientation in extant and fossil primates and their evolutionary implications. American Journal of Physical Anthropology, 2013, 151, 420-447.	2.1	38
46	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.	1.0	37
47	Wear and its effects on dental topography measures in howling monkeys (Alouatta palliata). American Journal of Physical Anthropology, 2016, 161, 705-721.	2.1	37
48	New primitive paromomyid from the Clarkforkian of Wyoming and dental eruption in Plesiadapiformes. Journal of Vertebrate Paleontology, 2002, 22, 366-379.	0.4	33
49	Predicting euarchontan body mass: A comparison of tarsal and dental variables. American Journal of Physical Anthropology, 2015, 157, 472-506.	2.1	30
50	Evolution of postural diversity in primates as reflected by the size and shape of the medial tibial facet of the talus. American Journal of Physical Anthropology, 2015, 157, 134-177.	2.1	29
51	Response to Comment on "Grasping Primate Origins". Science, 2003, 300, 741c-741.	6.0	28
52	Astragalar and calcaneal morphology of the middle Eocene primate Anchomomys frontanyensis (Anchomomyini): Implications for early primate evolution. Journal of Human Evolution, 2016, 91, 122-143.	1.3	28
53	Distinct functional roles of primate grasping hands and feet during arboreal quadrupedal locomotion. Journal of Human Evolution, 2015, 88, 79-84.	1.3	27
54	Postcrania of the most primitive euprimate and implications for primate origins. Journal of Human Evolution, 2017, 111, 202-215.	1.3	27

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55	A New Small-Bodied Species of Palaeonictis (Creodonta, Oxyaenidae) from the Paleocene-Eocene Thermal Maximum. Journal of Mammalian Evolution, 2010, 17, 227-243.	1.0	25
56	Surfaces and spaces: troubleshooting the study of dietary niche space overlap between North American stem primates and rodents. Surface Topography: Metrology and Properties, 2016, 4, 024005.	0.9	25
57	Development and Assessment of Fully Automated and Globally Transitive Geometric Morphometric Methods, With Application to a Biological Comparative Dataset With High Interspecific Variation. Anatomical Record, 2018, 301, 636-658.	0.8	25
58	New craniodental material of Pronothodectes gaoi Fox (Mammalia, â€œPlesiadapiformesâ€) and relationships among members of Plesiadapidae. American Journal of Physical Anthropology, 2012, 147, 511-550.	2.1	23
59	A calcaneus attributable to the primitive late eocene anthropoid Proteopithecus sylviae: Phenetic affinities and phylogenetic implications. American Journal of Physical Anthropology, 2013, 151, 372-397.	2.1	23
60	First virtual endocasts of adapiform primates. Journal of Human Evolution, 2016, 99, 52-78.	1.3	23
61	Revisiting the adaptive origins of primates (again). Journal of Human Evolution, 2007, 53, 321-324.	1.3	22
62	Morphological Correlates of the Grooming Claw in Distal Phalanges of Platyrrhines and Other Primates: A Preliminary Study. Anatomical Record, 2011, 294, 1975-1990.	0.8	21
63	Endocranial morphology ofLabidolemur kayi(Apatemyidae, Apatotheria) and its relevance to the study of brain evolution in Euarchontoglires. Journal of Vertebrate Paleontology, 2011, 31, 1314-1325.	0.4	21
64	Scaling of bony canals for encephalic vessels in euarchontans: Implications for the role of the vertebral artery and brain metabolism. Journal of Human Evolution, 2018, 114, 85-101.	1.3	21
65	ariaDNE: A robustly implemented algorithm for Dirichlet energy of the normal. Methods in Ecology and Evolution, 2019, 10, 541-552.	2.2	21
66	New primate first metatarsals from the Paleogene of Egypt and the origin of the anthropoid big toe. Journal of Human Evolution, 2012, 63, 99-120.	1.3	20
67	Functional morphology of the hallucal metatarsal with implications for inferring grasping ability in extinct primates. American Journal of Physical Anthropology, 2015, 156, 327-348.	2.1	19
68	The effect of differences in methodology among some recent applications of shearing quotients. American Journal of Physical Anthropology, 2015, 156, 166-178.	2.1	18
69	Internal carotid arterial canal size and scaling in Euarchonta: Re-assessing implications for arterial patency and phylogenetic relationships in early fossil primates. Journal of Human Evolution, 2016, 97, 123-144.	1.3	18
70	Cranial Morphology of a Pantolestid Eutherian Mammal from the Eocene Bridger Formation, Wyoming, USA: Implications for Relationships and Habitat. Journal of Mammalian Evolution, 2007, 14, 239-280.	1.0	16
71	Semiâ€supervised determination of pseudocryptic morphotypes using observerâ€free characterizations of anatomical alignment and shape. Ecology and Evolution, 2017, 7, 5041-5055.	0.8	16
72	Primate Origins and Supraordinal Relationships: Morphological Evidence. , 2015, , 1053-1081.		16

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73	Comparative functional morphology of the primate peroneal process. Journal of Human Evolution, 2009, 57, 721-731.	1.3	15
74	Quantification of the position and depth of the flexor hallucis longus groove in euarchontans, with implications for the evolution of primate positional behavior. American Journal of Physical Anthropology, 2017, 163, 367-406.	2.1	15
75	Gaussian Process Landmarking for Three-Dimensional Geometric Morphometrics. SIAM Journal on Mathematics of Data Science, 2019, 1, 237-267.	1.0	15
76	Interspecific scaling patterns of talar articular surfaces within primates and their closest living relatives. Journal of Anatomy, 2014, 224, 150-172.	0.9	14
77	Reconstructing dietary ecology of extinct strepsirrhines (Primates, Mammalia) with new approaches for characterizing and analyzing tooth shape. Paleobiology, 0, , 1-20.	1.3	14
78	Lemur habitat and dental senescence in Ranomafana National Park, Madagascar. American Journal of Physical Anthropology, 2012, 148, 228-237.	2.1	13
79	Oldest evidence for grooming claws in euprimates. Journal of Human Evolution, 2018, 122, 1-22.	1.3	12
80	Lower molar shape and size in prosimian and platyrrhine primates. American Journal of Physical Anthropology, 2016, 161, 237-258.	2.1	11
81	Vertical support use and primate origins. Scientific Reports, 2019, 9, 12341.	1.6	11
82	A digital collection of rare and endangered lemurs and other primates from the Duke Lemur Center. PLoS ONE, 2019, 14, e0219411.	1.1	9
83	New estimates of blood flow rates in the vertebral artery of euarchontans and their implications for encephalic blood flow scaling: A response to Seymour and Snelling (2018). Journal of Human Evolution, 2019, 128, 93-98.	1.3	9
84	Data sharing in biological anthropology. American Journal of Biological Anthropology, 2022, 178, 26-53.	0.6	9
85	Detailed Anatomical Orientations for Certain Types of Morphometric Measurements Can Be Determined Automatically With Geometric Algorithms. Anatomical Record, 2015, 298, 1816-1823.	0.8	8
86	Stem members of Platyrrhini are distinct from catarrhines in at least one derived cranial feature. Journal of Human Evolution, 2016, 100, 16-24.	1.3	8
87	A three-dimensional morphometric analysis of the locomotory ecology ofDeccanolestes, a eutherian mammal from the Late Cretaceous of India. Journal of Vertebrate Paleontology, 2014, 34, 146-156.	0.4	7
88	Evaluating the responses of three closely related small mammal lineages to climate change across the Paleoceneâ€“Eocene thermal maximum. Paleobiology, 2021, 47, 464-486.	1.3	7
89	First records of a triisodontine mammal, Goniacodon levisanus , in the late Paleocene of the northern Great Plains, North America. Journal of Vertebrate Paleontology, 2010, 30, 604-608.	0.4	5
90	Response to letters to the editor concerning <scp>AJPA</scp> commentary on â€œdata sharing in biological anthropology: Guiding principles and best practicesâ€• American Journal of Physical Anthropology, 2020, 172, 344-346.	2.1	5

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91	First navicular remains of a European adapiform (Anchomomys frontanyensis) from the Middle Eocene of the Eastern Pyrenees (Catalonia, Spain): implications for early primate locomotor behavior and navicular evolution. Journal of Human Evolution, 2020, 139, 102708.	1.3	5
92	Hands of Paleogene Primates. Developments in Primatology, 2016, , 373-419.	0.7	4
93	My branch is your branch: Talar morphology correlates with relative substrate size in platyrrhines at Tiputini Biodiversity Station, Ecuador. Journal of Human Evolution, 2019, 133, 23-31.	1.3	4
94	Unveiling the third dimension in morphometry with automated quantitative volumetric computations. Scientific Reports, 2021, 11, 14438.	1.6	4
95	Relationships between the expression of the stapedial artery and the size of the obturator foramen in euarchontans: Functional and phylogenetic implications. Journal of Human Evolution, 2011, 60, 106-116.	1.3	3
96	Changes in orientation of attritional wear facets with implications for jaw motion in a mixed longitudinal sample ofPropithecus edwardsifrom Ranomafana National Park, Madagascar. American Journal of Physical Anthropology, 2011, 146, 116-133.	2.1	3
97	Insights from macroevolutionary modelling and ancestral state reconstruction into the radiation and historical dietary ecology of Lemuriformes (Primates, Mammalia). Bmc Ecology and Evolution, 2021, 21, 60.	0.7	3
98	Carotid foramen size in the human skull tracks developmental changes in cerebral blood flow and brain metabolism. American Journal of Physical Anthropology, 2019, 169, 161-169.	2.1	2
99	New dentaries of Chiromyoides (Primatomorpha, Plesiadapidae) and a reassessment of the â€œmammalian woodpeckerâ€•ecological niche. Geobios, 2021, 66-67, 77-102.	0.7	1
100	Group-wise shape correspondence of variable and complex objects. , 2018, 10574, .		1
101	A digital collection of rare and endangered lemurs and other primates from the Duke Lemur Center. , 2019, 14, e0219411.		0
102	A digital collection of rare and endangered lemurs and other primates from the Duke Lemur Center. , 2019, 14, e0219411.		0
103	A digital collection of rare and endangered lemurs and other primates from the Duke Lemur Center. , 2019, 14, e0219411.		0
104	A digital collection of rare and endangered lemurs and other primates from the Duke Lemur Center. , 2019, 14, e0219411.		0