

Biren A Patel

List of Publications by Year in descending order

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57
papers

1,007
citations

361413

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477307

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57
times ranked

613
citing authors

#	ARTICLE	IF	CITATIONS
1	Hallucal grasping in <i>Nycticebus coucang</i> : further implications for the functional significance of a large peroneal process. <i>Journal of Human Evolution</i> , 2010, 58, 33-42.	2.6	66
2	Habitual use of the primate forelimb is reflected in the material properties of subchondral bone in the distal radius. <i>Journal of Anatomy</i> , 2006, 208, 659-670.	1.5	46
3	Dynamic Pressure Patterns in the Hands of Olive Baboons (<i>Papio anubis</i>) During Terrestrial Locomotion: Implications for Cercopithecoid Primate Hand Morphology. <i>Anatomical Record</i> , 2010, 293, 710-718.	1.4	45
4	Telemetered electromyography of peroneus longus in <i>Varecia variegata</i> and <i>Eulemur rubriventer</i> : implications for the functional significance of a large peroneal process. <i>Journal of Human Evolution</i> , 2007, 53, 119-134.	2.6	42
5	Not so fast: Speed effects on forelimb kinematics in cercopithecine monkeys and implications for digitigrade postures in primates. <i>American Journal of Physical Anthropology</i> , 2009, 140, 92-112.	2.1	42
6	Functional morphology of cercopithecoid primate metacarpals. <i>Journal of Human Evolution</i> , 2010, 58, 320-337.	2.6	38
7	Humeral Cross-sectional Shape in Suspensory Primates and Sloths. <i>Anatomical Record</i> , 2013, 296, 545-556.	1.4	38
8	The interplay between speed, kinetics, and hand postures during primate terrestrial locomotion. <i>American Journal of Physical Anthropology</i> , 2010, 141, 222-234.	2.1	37
9	Trabecular architecture in the StW 352 fossil hominin calcaneus. <i>Journal of Human Evolution</i> , 2016, 97, 145-158.	2.6	37
10	Bone density spatial patterns in the distal radius reflect habitual hand postures adopted by quadrupedal primates. <i>Journal of Human Evolution</i> , 2007, 52, 130-141.	2.6	36
11	Terrestrial adaptations in the hands of <i>Equatorius africanus</i> revisited. <i>Journal of Human Evolution</i> , 2009, 57, 763-772.	2.6	36
12	The hominoid proximal radius: re-interpreting locomotor behaviors in early hominins. <i>Journal of Human Evolution</i> , 2005, 48, 415-432.	2.6	33
13	Exploring Phylogenetic and Functional Signals in Complex Morphologies: The Hamate of Extant Anthropoids as a Test Case Study. <i>Anatomical Record</i> , 2015, 298, 212-229.	1.4	31
14	Evolution and function of the hominin forefoot. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8746-8751.	7.1	30
15	Distinct functional roles of primate grasping hands and feet during arboreal quadrupedal locomotion. <i>Journal of Human Evolution</i> , 2015, 88, 79-84.	2.6	27
16	Distal Forelimb Kinematics in <i>Erythrocebus patas</i> and <i>Papio anubis</i> During Walking and Galloping. <i>International Journal of Primatology</i> , 2010, 31, 191-207.	1.9	25
17	Apparent density patterns in subchondral bone of the sloth and anteater forelimb. <i>Biology Letters</i> , 2008, 4, 486-489.	2.3	24
18	Adaptation to bipedal gait and fifth metatarsal structural properties in <i>Australopithecus</i> , <i>Paranthropus</i> , and <i>Homo</i> . <i>Comptes Rendus - Palevol</i> , 2017, 16, 585-599.	0.2	23

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19	Apparent density of the primate calcaneo-cuboid joint and its association with locomotor mode, foot posture, and the "midtarsal break". American Journal of Physical Anthropology, 2010, 142, 180-193.	2.1	22
20	The locomotion of <i>Babakotia radofilai</i> inferred from epiphyseal and diaphyseal morphology of the humerus and femur. Journal of Morphology, 2016, 277, 1199-1218.	1.2	21
21	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.	2.6	20
22	Functional aspects of metatarsal head shape in humans, apes, and Old World monkeys. Journal of Human Evolution, 2015, 86, 136-146.	2.6	20
23	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
24	Morphological Diversity in the Digital Rays of Primate Hands. Developments in Primatology, 2016, , 55-100.	0.1	19
25	Electromyography of wrist and finger flexor muscles in olive baboons (<i>Papio anubis</i>). Journal of Experimental Biology, 2012, 215, 115-123.	1.7	18
26	Ontogenetic Scaling of Fore- and Hind Limb Posture in Wild Chacma Baboons (<i>Papio hamadryas</i>) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 4	2.5	16
27	Comparative functional morphology of the primate peroneal process. Journal of Human Evolution, 2009, 57, 721-731.	2.6	15
28	Metatarsal fusion pattern and developmental morphology of the Olduvai Hominid 8 foot: Evidence of adolescence. Journal of Human Evolution, 2011, 60, 58-69.	2.6	14
29	Phalangeal curvature in a chimpanzee raised like a human: Implications for inferring arboreality in fossil hominins. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11223-11225.	7.1	14
30	Ontogeny of hallucal metatarsal rigidity and shape in the rhesus monkey (<i>Macaca mulatta</i>) and chimpanzee (<i>Pan troglodytes</i>). Journal of Anatomy, 2018, 232, 39-53.	1.5	13
31	Inter-ray variation in metatarsal strength properties in humans and African apes: Implications for inferring bipedal biomechanics in the Olduvai Hominid 8 foot. Journal of Human Evolution, 2018, 121, 147-165.	2.6	13
32	Mouse hallucal metatarsal cross-sectional geometry in a simulated fine branch niche. Journal of Morphology, 2015, 276, 759-765.	1.2	12
33	New sivaladapid primate from Lower Siwalik deposits surrounding Ramnagar (Jammu and Kashmir) Tj ETQq1 1 0.784314 rgBT/Overlock 12	2.6	12
34	New Middle Miocene Ape (Primates: Hylobatidae) from Ramnagar, India fills major gaps in the hominoid fossil record. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20201655.	2.6	12
35	Joint Loads in Marsupial Ankles Reflect Habitual Bipedalism versus Quadrupedalism. PLoS ONE, 2013, 8, e58811.	2.5	11
36	Catarrhine hallucal metatarsals from the early Miocene site of Songhor, Kenya. Journal of Human Evolution, 2017, 108, 176-198.	2.6	11

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37	Geometric properties and comparative biomechanics of <i>Homo floresiensis</i> mandibles. <i>Journal of Human Evolution</i> , 2014, 68, 36-46.	2.6	10
38	Electromyography of crural and pedal muscles in tufted capuchin monkeys (<i>Sapajus apella</i>): Implications for hallucal grasping behavior and first metatarsal morphology in euprimates. <i>American Journal of Physical Anthropology</i> , 2015, 156, 553-564.	2.1	9
39	Evaluation of Articular Surface Similarity of Hemi-Hamate Grafts and Proximal Middle Phalanx Morphology: A 3D Geometric Morphometric Approach. <i>Journal of Hand Surgery</i> , 2019, 44, 121-128.	1.6	9
40	A resampling approach and implications for estimating the phalangeal index from unassociated hand bones in fossil primates. <i>American Journal of Physical Anthropology</i> , 2013, 151, 280-289.	2.1	7
41	Strength properties of extant hominoid hallucal and pollical metapodials. <i>Journal of Human Evolution</i> , 2020, 143, 102774.	2.6	7
42	Histovariability in human clavicular cortical bone microstructure and its mechanical implications. <i>Journal of Anatomy</i> , 2019, 235, 873-882.	1.5	5
43	<i>Homo naledi</i> pollical metacarpal shaft morphology is distinctive and intermediate between that of australopiths and other members of the genus <i>Homo</i> . <i>Journal of Human Evolution</i> , 2021, 158, 103048.	2.6	5
44	Morphological analysis of new <i>Dryas</i> Monkey specimens from the Central Congo Basin: Taxonomic considerations and an emended diagnosis. <i>American Journal of Physical Anthropology</i> , 2021, 176, 361-389.	2.1	4
45	A geometric morphometric approach to investigate primate proximal phalanx diaphysis shape. <i>American Journal of Biological Anthropology</i> , 2022, 177, 581-602.	1.1	4
46	New <i>Sivapithecus</i> specimen from Ramnagar (Jammu and Kashmir), India and a taxonomic revision of Ramnagar hominoids. <i>Journal of Human Evolution</i> , 2019, 135, 102665.	2.6	3
47	A new genus of treeshrew and other micromammals from the middle Miocene hominoid locality of Ramnagar, Udhampur District, Jammu and Kashmir, India. <i>Journal of Paleontology</i> , 2022, 96, 1318-1335.	0.8	3
48	Subchondral Bone Radiodensity Patterns in the Glenoid Fossa of Ape and Human Scapulae. <i>Anatomical Record</i> , 2018, 301, 776-785.	1.4	1
49	Calcaneal elongation and bone strength in leaping galagids. <i>American Journal of Physical Anthropology</i> , 2020, 171, 430-438.	2.1	1
50	Evolutionary trends of the lateral foot in catarrhine primates: Contextualizing the fourth metatarsal of <i>Australopithecus afarensis</i> . <i>Journal of Human Evolution</i> , 2021, 161, 103078.	2.6	1
51	Comparative functional morphology in primates. <i>Evolutionary Anthropology</i> , 2008, 17, 243-244.	3.4	0
52	Humeral Cross-Sectional Shape in Suspensory Primates and Sloths. <i>Anatomical Record</i> , 2013, 296, C1-C1.	1.4	0
53	Bone volume in the distal calcaneus correlates with body size but not leap frequency in galagids. <i>American Journal of Biological Anthropology</i> , 2022, 177, 27.	1.1	0
54	Cross-sectional geometry of chimpanzee (<i>Pan troglodytes</i>) finger bones is correlated with habitual load bearing of individual digits during knuckle-walking. <i>FASEB Journal</i> , 2013, 27, 744.2.	0.5	0

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55	Morphological Plasticity in the Mouse Hallucal Metatarsal. FASEB Journal, 2013, 27, 747.7.	0.5	0
56	Sexual Dimorphism in Bones of the Thenar and Hypothenar Aspects of the Hand. FASEB Journal, 2017, 31, 393.5.	0.5	0
57	A novel approach to resolving the brachial index issue of A.L. 288â€1 (â€Lucyâ€) using 3D computer models of hominid forelimb bones. FASEB Journal, 2019, 33, 613.9.	0.5	0