Christopher B Ruff

List of Publications by Citations

179 papers	13,870 citations	63 h-index	117 g-index
199 ext. papers	15,252 ext. citations	3.3 avg, IF	6.84 L-index

#	Paper	IF	Citations
179	Body mass and encephalization in Pleistocene Homo. *Nature*, **1997**, 387, 173-6	50.4	667
178	Who's afraid of the big bad Wolff?: "Wolff's law" and bone functional adaptation. *American Journal of Physical Anthropology*, **2006**, 129, 484-98	2.5	596
177	Morphological adaptation to climate in modern and fossil hominids. *American Journal of Physical Anthropology*, **1994**, 37, 65-107	2.5	479
176	Postcranial robusticity in Homo. I: Temporal trends and mechanical interpretation. *American Journal of Physical Anthropology*, **1993**, 91, 21-53	2.5	444
175	Predicting femoral neck strength from bone mineral data. A structural approach. *Investigative Radiology*, **1990**, 25, 6-18	10.1	431
174	Cross-sectional geometry of Pecos Pueblo femora and tibiae--a biomechanical investigation: I. Method and general patterns of variation. *American Journal of Physical Anthropology*, **1983**, 60, 359-81	2.5	419
173	Postcranial robusticity in Homo. II: Humeral bilateral asymmetry and bone plasticity. *American Journal of Physical Anthropology*, **1994**, 93, 1-34	2.5	354
172	Variation in Human Body Size and Shape. *Annual Review of Anthropology*, **2002**, 31, 211-232	3.6	338
171	Structural trends in the aging femoral neck and proximal shaft: analysis of the Third National Health and Nutrition Examination Survey dual-energy X-ray absorptiometry data. *Journal of Bone and Mineral Research*, **2000**, 15, 2297-304	6.3	331
170	Sex differences in age-related remodeling of the femur and tibia. *Journal of Orthopaedic Research*, **1988**, 6, 886-96	3.8	316
169	Limb bone bilateral asymmetry: variability and commonality among modern humans. *Journal of Human Evolution*, **2006**, 50, 203-18	3.1	314
168	Articular and diaphyseal remodeling of the proximal femur with changes in body mass in adults. *American Journal of Physical Anthropology*, **1991**, 86, 397-413	2.5	290
167	Body size, body shape, and long bone strength in modern humans. *Journal of Human Evolution*, **2000**, 38, 269-90	3.1	275
166	Sexual dimorphism in human lower limb bone structure: relationship to subsistence strategy and sexual division of labor. *Journal of Human Evolution*, **1987**, 16, 391-416	3.1	273
165	Biomechanics of the hip and birth in early Homo. *American Journal of Physical Anthropology*, **1995**, 98, 527-74	2.5	272
164	Climate and body shape in hominid evolution. *Journal of Human Evolution*, **1991**, 21, 81-105	3.1	267
163	Postcranial robusticity in Homo. III: Ontogeny. *American Journal of Physical Anthropology*, **1994**, 93, 35-54	2.5	258

162	Long bone articular and diaphyseal structure in old world monkeys and apes. I: locomotor effects. *American Journal of Physical Anthropology*, **2002**, 119, 305-42	2.5	243
161	Human body mass estimation: a comparison of "morphometric" and "mechanical" methods. *American Journal of Physical Anthropology*, **2004**, 125, 331-42	2.5	225
160	Cross-sectional geometry of Pecos Pueblo femora and tibiae--a biomechanical investigation: II. Sex, age, side differences. *American Journal of Physical Anthropology*, **1983**, 60, 383-400	2.5	211
159	Structural adaptation to changing skeletal load in the progression toward hip fragility: the study of osteoporotic fractures. *Journal of Bone and Mineral Research*, **2001**, 16, 1108-19	6.3	206
158	Revision of the Fully technique for estimating statures. *American Journal of Physical Anthropology*, **2006**, 130, 374-84	2.5	186
157	Sex differences in geometry of the femoral neck with aging: a structural analysis of bone mineral data. *Calcified Tissue International*, **1992**, 50, 24-9	3.9	186
156	Growth in bone strength, body size, and muscle size in a juvenile longitudinal sample. *Bone*, **2003**, 33, 317-29	4.7	179
155	Differential susceptibility to hypertension is due to selection during the out-of-Africa expansion. *PLoS Genetics*, **2005**, 1, e82	6	175
154	Stature and body mass estimation from skeletal remains in the European Holocene. *American Journal of Physical Anthropology*, **2012**, 148, 601-17	2.5	173
153	Hindlimb articular surface allometry in hominoidea and Macaca, with comparisons to diaphyseal scaling. *Journal of Human Evolution*, **1988**, 17, 687-714	3.1	172
152	Structural changes in the femur with the transition to agriculture on the Georgia coast. *American Journal of Physical Anthropology*, **1984**, 64, 125-36	2.5	171
151	Body size and body shape in early hominins - implications of the Gona pelvis. *Journal of Human Evolution*, **2010**, 58, 166-78	3.1	162
150	Dual-energy X-ray absorptiometry derived structural geometry for stress fracture prediction in male U.S. Marine Corps recruits. *Journal of Bone and Mineral Research*, **1996**, 11, 645-53	6.3	155
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148	Body Size and Body Shape **1993**, 234-265		147
147	Long bone articular and diaphyseal structure in Old World monkeys and apes. II: Estimation of body mass. *American Journal of Physical Anthropology*, **2003**, 120, 16-37	2.5	141
146	Ontogenetic adaptation to bipedalism: age changes in femoral to humeral length and strength proportions in humans, with a comparison to baboons. *Journal of Human Evolution*, **2003**, 45, 317-49	3.1	130
145	Biomechanical Analyses of Archaeological Human Skeletons183-206		128

144	Body mass prediction from stature and bi-iliac breadth in two high latitude populations, with application to earlier higher latitude humans. *Journal of Human Evolution*, **2005**, 48, 381-92	3.1	119
143	Relative limb strength and locomotion in Homo habilis. *American Journal of Physical Anthropology*, **2009**, 138, 90-100	2.5	109
142	Recent origin of low trabecular bone density in modern humans. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 366-71	11.5	107
141	Estimating human long bone cross-sectional geometric properties: a comparison of noninvasive methods. *Journal of Human Evolution*, **2004**, 47, 221-35	3.1	105
140	Gradual decline in mobility with the adoption of food production in Europe. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 7147-52	11.5	103
139	Diaphyseal Cross-sectional Geometry of Near Eastern Middle Palaeolithic Humans: The Femur. *Journal of Archaeological Science*, **1999**, 26, 409-424	2.9	99
138	Body size, body proportions, and encephalization in a Middle Pleistocene archaic human from northern China. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 3552-6	11.5	98
137	Structural and mechanical indicators of limb specialization in primates. *Folia Primatologica*, **1985**, 45, 61-75	1.2	98
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135	Structural allometry of the femur and tibia in Hominoidea and Macaca. *Folia Primatologica*, **1987**, 48, 9-49	1.2	94
134	Sexual dimorphism in skeletal browridge and chin morphologies determined using a new quantitative method. *American Journal of Physical Anthropology*, **2012**, 147, 661-70	2.5	92
133	Body size, body proportions, and mobility in the Tyrolean "Iceman". *Journal of Human Evolution*, **2006**, 51, 91-101	3.1	89
132	Patterns of skeletal histologic change through time: comparison of an archaic native American population with modern populations. *The Anatomical Record*, **1990**, 226, 307-13		89
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129	Hand dominance and bilateral asymmetry in the structure of the second metacarpal. *American Journal of Physical Anthropology*, **1994**, 94, 203-11	2.5	78
128	Articular structure and function in Hylobates, Colobus, and Papio. *American Journal of Physical Anthropology*, **1994**, 94, 395-408	2.5	78
127	Body mass, sexual dimorphism and femoral proportions of Proconsul from Rusinga and Mfangano Islands, Kenya. *Journal of Human Evolution*, **1989**, 18, 515-536	3.1	77

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121	Stature estimation in ancient Egyptians: a new technique based on anatomical reconstruction of stature. *American Journal of Physical Anthropology*, **2008**, 136, 147-55	2.5	67
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119	Allometry between length and cross-sectional dimensions of the femur and tibia in Homo sapiens sapiens. *American Journal of Physical Anthropology*, **1984**, 65, 347-58	2.5	64
118	Long Bone Shaft Robusticity and Body Proportions of the Saint-Césaire 1 Châtelperronian Neanderthal. *Journal of Archaeological Science*, **1999**, 26, 753-773	2.9	63
117	Postcranial estimates of body weight in Proconsul, with a note on a distal tibia of P. major from Napak, Uganda. *American Journal of Physical Anthropology*, **1995**, 97, 391-402	2.5	63
116	Cross-sectional morphology of the SK 82 and 97 proximal femora. *American Journal of Physical Anthropology*, **1999**, 109, 509-21	2.5	60
115	Diaphyseal Cross-sectional Geometry of Near Eastern Middle Palaeolithic Humans: The Tibia. *Journal of Archaeological Science*, **1999**, 26, 1289-1300	2.9	60
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108	Curved beam model of the proximal femur for estimating stress using dual-energy X-ray absorptiometry derived structural geometry. *Journal of Orthopaedic Research*, **1996**, 14, 483-92	3.8	48
107	Dietary effects on development of the human mandibular corpus. *American Journal of Physical Anthropology*, **2011**, 145, 615-28	2.5	47
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104	Technical note: Morphometric maps of long bone shafts and dental roots for imaging topographic thickness variation. *American Journal of Physical Anthropology*, **2010**, 142, 328-34	2.5	46
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100	The Reconstruction of the Pelvis **1993**, 221-233		44
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98	Structural analysis of the Kresna 11 Homo erectus femoral shaft (Sangiran, Java). *Journal of Human Evolution*, **2012**, 63, 741-9	3.1	41
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94	Bioarchaeology of Neolithic Çatalhöyük reveals fundamental transitions in health, mobility, and lifestyle in early farmers. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 12615-12623	11.5	36
93	Body mass estimation from knee breadth, with application to early hominins. *American Journal of Physical Anthropology*, **2015**, 158, 198-208	2.5	36
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85	Diachronic patterns of change in structural properties of the femur in the prehistoric American Southwest. *American Journal of Physical Anthropology*, **1988**, 75, 113-27	2.5	32
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68	Growth tracking of femoral and humeral strength from infancy through late adolescence. *Acta Paediatrica, International Journal of Paediatrics*, **2005**, 94, 1030-7	3.1	15
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57	Long bone diaphyseal shape follows different ontogenetic trajectories in captive and wild gorillas. *American Journal of Physical Anthropology*, **2018**, 167, 366-376	2.5	10
56	Long Bone Structural Analyses and the Reconstruction of Past Mobility: A Historical Review **2014**, 13-29		9
55	Sexual Dimorphism **2017**, 133-161		8

54	Introduction to special issue: Body mass estimation - Methodological issues and fossil applications. *Journal of Human Evolution*, **2018**, 115, 1-7	3.1	8
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50	Past Human Manipulative Behavior in the European Holocene as Assessed Through Upper Limb Asymmetry **2017**, 163-208		5
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48	Temporal and Geographic Variation in Robusticity **2017**, 91-132		4
47	Ontogenetic scaling of fore limb and hind limb joint posture and limb bone cross-sectional geometry in vervets and baboons. *American Journal of Physical Anthropology*, **2016**, 161, 72-83	2.5	4
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38	Genetic contributions to variation in human stature in prehistoric Europe		2
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36	Effects of age and body proportions on stature estimation. *American Journal of Physical Anthropology*, **2019**, 168, 370-377	2.5	2
35	Central Europe **2017**, 315-354		1
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29	Scaling and relative size of the human, nonhuman ape, and baboon calcaneus. *Anatomical Record*, **2022**, 305, 100-122	2.1	1
28	Locomotor Behavior and Body Mass of Paramys delicatus (Ischyromyidae, Rodentia) and Commentary on Other Early North American Paramyines. *Journal of Mammalian Evolution*, **2021**, 28, 435-456	2.2	1
27	Calcaneal shape variation in humans, nonhuman primates, and early hominins. *Journal of Human Evolution*, **2021**, 159, 103050	3.1	1
26	Femoral ontogeny and locomotor biomechanics of Dryosaurus lettowvorbecki (Dinosauria, Iguanodontia)		1
25	Scandinavia and Finland **2017**, 355-396		0
24	Further analyses of the Deep Skull femur from Niah Caves, Malaysia. *Journal of Human Evolution*, **2021**, 161, 103089	3.1	0
23	Locomotion on the edge: Structural properties of the third metacarpal in Thoroughbred and Quarter Horse racehorses and feral Assateague Island ponies. *Anatomical Record*, **2021**, 304, 771-786	2.1	0
22	Effects of reduced mobility on trabecular bone density in captive big cats.. *Royal Society Open Science*, **2022**, 9, 211345	3.3	0
21	Iberia **2017**, 281-314		
20	The Balkans **2017**, 397-418		
19	France and Italy **2017**, 241-280		

18	Appendix 1: Study Samples **2017**, 427-442	
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13	Humeral Cross-Sectional Shape in Suspensory Primates and Sloths. *Anatomical Record*, **2013**, 296, C1-C1	2.1
12	Geometric Properties of the Third Metacarpal Bone: A Comparison Between Thoroughbred and Quarter Horse Racehorses. *FASEB Journal*, **2018**, 32, 514.2	0.9
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8	Human calcaneal external shape relative to activity and foraging levels. *FASEB Journal*, **2020**, 34, 1-1	0.9
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3	Decreasing emotional distress among first-year medical students. *Medical Education*, **2016**, 50, 565-6	3.7
2	Postcranial morphology, nontraditional analysis **2018**, 1-3	
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