

# Herman Pontzer

## List of Publications by Year in descending order

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Version: 2024-02-01

99  
papers

6,556  
citations

76031

42  
h-index

78623

77  
g-index

105  
all docs

105  
docs citations

105  
times ranked

6325  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reindeer herders from subarctic Finland exhibit high total energy expenditure and low energy intake during the autumn herd roundup. <i>American Journal of Human Biology</i> , 2022, 34, e23676.	0.8	12
2	Total energy expenditure is repeatable in adults but not associated with short-term changes in body composition. <i>Nature Communications</i> , 2022, 13, 99.	5.8	7
3	Cross-cultural variation in thirst perception in hot-humid and hot-arid environments: Evidence from two small-scale populations. <i>American Journal of Human Biology</i> , 2022, 34, e23715.	0.8	5
4	Balancing growth, reproduction, maintenance, and activity in evolved energy economies. <i>Current Biology</i> , 2022, 32, R709-R719.	1.8	14
5	Balancing the scales: Preliminary investigation of total energy expenditure and daily metabolizable energy intake in Matschie's tree kangaroo ( <i>Dendrolagus matschiei</i> ). <i>PLoS ONE</i> , 2022, 17, e0270570.	1.1	2
6	Human total, basal and activity energy expenditures are independent of ambient environmental temperature. <i>IScience</i> , 2022, 25, 104682.	1.9	6
7	Hydration in relation to water insecurity, heat index, and lactation status in two small-scale populations in hot-humid and hot-arid environments. <i>American Journal of Human Biology</i> , 2021, 33, e23447.	0.8	22
8	Childhood Daily Energy Expenditure Does Not Decrease with Market Integration and Is Not Related to Adiposity in Amazonia. <i>Journal of Nutrition</i> , 2021, 151, 695-704.	1.3	26
9	Gendered movement ecology and landscape use in Hadza hunter-gatherers. <i>Nature Human Behaviour</i> , 2021, 5, 436-446.	6.2	35
10	A standard calculation methodology for human doubly labeled water studies. <i>Cell Reports Medicine</i> , 2021, 2, 100203.	3.3	62
11	Hotter and sicker: External energy expenditure and the tangled evolutionary roots of anthropogenic climate change and chronic disease. <i>American Journal of Human Biology</i> , 2021, 33, e23579.	0.8	11
12	How can evolutionary and biological anthropologists engage broader audiences?. <i>American Journal of Human Biology</i> , 2021, 33, e23592.	0.8	7
13	Evolution of water conservation in humans. <i>Current Biology</i> , 2021, 31, 1804-1810.e5.	1.8	18
14	Drinking water salinity is associated with hypertension and hyperdilute urine among Daasanach pastoralists in Northern Kenya. <i>Science of the Total Environment</i> , 2021, 770, 144667.	3.9	22
15	Effects of Evolution, Ecology, and Economy on Human Diet: Insights from Hunter-Gatherers and Other Small-Scale Societies. <i>Annual Review of Nutrition</i> , 2021, 41, 363-385.	4.3	22
16	Determinants of climbing energetic costs in humans. <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	5
17	Energetic and endurance constraints on great ape quadrupedalism and the benefits of hominin bipedalism. <i>Evolutionary Anthropology</i> , 2021, 30, 253-261.	1.7	9
18	Energy compensation and adiposity in humans. <i>Current Biology</i> , 2021, 31, 4659-4666.e2.	1.8	63

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19	Total energy expenditure of bottlenose dolphins ( <i>Tursiops truncatus</i> ) of different ages. <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	16
20	Daily energy expenditure through the human life course. <i>Science</i> , 2021, 373, 808-812.	6.0	234
21	Physical activity and fat-free mass during growth and in later life. <i>American Journal of Clinical Nutrition</i> , 2021, 114, 1583-1589.	2.2	22
22	The energetics of uniquely human subsistence strategies. <i>Science</i> , 2021, 374, eabf0130.	6.0	39
23	Water turnover among human populations: Effects of environment and lifestyle. <i>American Journal of Human Biology</i> , 2020, 32, e23365.	0.8	8
24	Dehydration and persistence hunting in <i>Homo erectus</i> . <i>Journal of Human Evolution</i> , 2020, 138, 102682.	1.3	9
25	Fitness and Fatness Are Both Associated with Cardiometabolic Risk in Preadolescents. <i>Journal of Pediatrics</i> , 2020, 217, 39-45.e1.	0.9	17
26	Ageing and physical function in East African foragers and pastoralists. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190608.	1.8	6
27	Ranging Ecology: The View from Above. <i>Current Biology</i> , 2020, 30, R1378-R1380.	1.8	0
28	Sitting, squatting, and the evolutionary biology of human inactivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7115-7121.	3.3	53
29	Step Counts From Satellites: Methods for Integrating Accelerometer and GPS Data for More Accurate Measures of Pedestrian Travel. <i>Journal for the Measurement of Physical Behaviour</i> , 2020, 3, 58-66.	0.5	2
30	Dmanisi Hominins and Archaeology. , 2020, , 3314-3317.		0
31	Air temperature and diet influence body composition and water turnover in zoo-living African elephants ( <i>Loxodonta africana</i> ). <i>Royal Society Open Science</i> , 2020, 7, 201155.	1.1	1
32	Sex differences in respiratory and circulatory cost during hypoxic walking: potential impact on oxygen saturation. <i>Scientific Reports</i> , 2019, 9, 9550.	1.6	21
33	Sustained high levels of physical activity lead to improved performance among "Race Across the USA" athletes. <i>American Journal of Physical Anthropology</i> , 2019, 168, 789-794.	2.1	2
34	Age-related decline in urine concentration may not be universal: Comparative study from the U.S. and two small-scale societies. <i>American Journal of Physical Anthropology</i> , 2019, 168, 705-716.	2.1	6
35	Extreme events reveal an alimentary limit on sustained maximal human energy expenditure. <i>Science Advances</i> , 2019, 5, eaaw0341.	4.7	87
36	Methodological differences cannot explain associations between health, anthropometrics, and excess resting metabolic rate. <i>American Journal of Physical Anthropology</i> , 2019, 169, 197-198.	2.1	0

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37	High energy requirements and water throughput of adult Shuar forager-horticulturalists of Amazonian Ecuador. <i>American Journal of Human Biology</i> , 2019, 31, e23223.	0.8	23
38	Constraint and trade-offs regulate energy expenditure during childhood. <i>Science Advances</i> , 2019, 5, eaax1065.	4.7	40
39	Tradeoffs between immune function and childhood growth among Amazonian forager-horticulturalists. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3914-E3921.	3.3	125
40	Great ape walking kinematics: Implications for hominoid evolution. <i>American Journal of Physical Anthropology</i> , 2018, 166, 43-55.	2.1	38
41	Hip extensor mechanics and the evolution of walking and climbing capabilities in humans, apes, and fossil hominins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4134-4139.	3.3	38
42	Method and rationale for recalculating dilution spaces to a single, common time point in doubly labeled water studies. <i>European Journal of Clinical Nutrition</i> , 2018, 72, 1620-1624.	1.3	6
43	Energy Constraint as a Novel Mechanism Linking Exercise and Health. <i>Physiology</i> , 2018, 33, 384-393.	1.6	58
44	Elite swimmers do not exhibit a body mass index trade-off across a wide range of event distances. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20180684.	1.2	7
45	Total energy expenditure in captive capuchins ( <i>Sapajus apella</i> ). <i>American Journal of Primatology</i> , 2017, 79, e22638.	0.8	11
46	The crown joules: energetics, ecology, and evolution in humans and other primates. <i>Evolutionary Anthropology</i> , 2017, 26, 12-24.	1.7	32
47	Economy and Endurance in Human Evolution. <i>Current Biology</i> , 2017, 27, R613-R621.	1.8	75
48	Mechanics of archery among Hadza hunter-gatherers. <i>Journal of Archaeological Science: Reports</i> , 2017, 16, 57-64.	0.2	7
49	Measuring the Energy of Ventilation and Circulation during Human Walking using Induced Hypoxia. <i>Scientific Reports</i> , 2017, 7, 4938.	1.6	13
50	Physical activity patterns and biomarkers of cardiovascular disease risk in hunter-gatherers. <i>American Journal of Human Biology</i> , 2017, 29, e22919.	0.8	108
51	7. Locomotor Ecology and Evolution in Chimpanzees and Humans. , 2017, , 259-285.		4
52	Body size and lower limb posture during walking in humans. <i>PLoS ONE</i> , 2017, 12, e0172112.	1.1	21
53	Gait changes in a line of mice artificially selected for longer limbs. <i>PeerJ</i> , 2017, 5, e3008.	0.9	11
54	Response to de la Iglesia et al.. <i>Current Biology</i> , 2016, 26, R273-R274.	1.8	3

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55	Metabolic acceleration and the evolution of human brain size and life history. <i>Nature</i> , 2016, 533, 390-392.	13.7	198
56	Behavior: Knowing When to Walk Away, Knowing When to Run. <i>Current Biology</i> , 2016, 26, R717-R718.	1.8	0
57	High resting metabolic rate among Amazonian forager-horticulturalists experiencing high pathogen burden. <i>American Journal of Physical Anthropology</i> , 2016, 161, 414-425.	2.1	50
58	Constrained Total Energy Expenditure and Metabolic Adaptation to Physical Activity in Adult Humans. <i>Current Biology</i> , 2016, 26, 410-417.	1.8	214
59	Chewing efficiency and occlusal functional morphology in modern humans. <i>Journal of Human Evolution</i> , 2016, 93, 1-11.	1.3	23
60	A unified theory for the energy cost of legged locomotion. <i>Biology Letters</i> , 2016, 12, 20150935.	1.0	45
61	Energy expenditure and activity among Hadza hunter-gatherers. <i>American Journal of Human Biology</i> , 2015, 27, 628-637.	0.8	78
62	Constrained Total Energy Expenditure and the Evolutionary Biology of Energy Balance. <i>Exercise and Sport Sciences Reviews</i> , 2015, 43, 110-116.	1.6	114
63	Natural Sleep and Its Seasonal Variations in Three Pre-industrial Societies. <i>Current Biology</i> , 2015, 25, 2862-2868.	1.8	264
64	Energy Expenditure in Humans and Other Primates: A New Synthesis. <i>Annual Review of Anthropology</i> , 2015, 44, 169-187.	0.4	48
65	A Wider Pelvis Does Not Increase Locomotor Cost in Humans, with Implications for the Evolution of Childbirth. <i>PLoS ONE</i> , 2015, 10, e0118903.	1.1	110
66	Macronutrient contributions of insects to the diets of hunter-gatherers: A geometric analysis. <i>Journal of Human Evolution</i> , 2014, 71, 70-76.	1.3	33
67	Bipedal and quadrupedal locomotion in chimpanzees. <i>Journal of Human Evolution</i> , 2014, 66, 64-82.	1.3	114
68	Evidence of diurnal walk foraging patterns in human hunter-gatherers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 728-733.	3.3	243
69	Primate energy expenditure and life history. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1433-1437.	3.3	124
70	Mutualism and manipulation in Hadza honeyguide interactions. <i>Evolution and Human Behavior</i> , 2014, 35, 540-546.	1.4	37
71	Foot strike patterns and hind limb joint angles during running in Hadza hunter-gatherers. <i>Journal of Sport and Health Science</i> , 2014, 3, 95-101.	3.3	30
72	Muscle force production during bent-knee, bent-hip walking in humans. <i>Journal of Human Evolution</i> , 2013, 65, 294-302.	1.3	29

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73	A new look at the Dynamic Similarity Hypothesis: the importance of swing phase. <i>Biology Open</i> , 2013, 2, 1032-1036.	0.6	16
74	Trabecular Evidence for a Human-Like Gait in <i>Australopithecus africanus</i> . <i>PLoS ONE</i> , 2013, 8, e77687.	1.1	92
75	Metabolic hypothesis for human altriciality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15212-15216.	3.3	283
76	Ecological Energetics in Early <i>Homo</i> . <i>Current Anthropology</i> , 2012, 53, S346-S358.	0.8	129
77	Relating ranging ecology, limb length, and locomotor economy in terrestrial animals. <i>Journal of Theoretical Biology</i> , 2012, 296, 6-12.	0.8	21
78	Hunter-Gatherer Energetics and Human Obesity. <i>PLoS ONE</i> , 2012, 7, e40503.	1.1	256
79	Dental microwear texture analysis and diet in the Dmanisi hominins. <i>Journal of Human Evolution</i> , 2011, 61, 683-687.	1.3	31
80	The Narrow Niche hypothesis: Gray squirrels shed new light on primate origins. <i>American Journal of Physical Anthropology</i> , 2011, 144, 617-624.	2.1	39
81	From Treadmill to Tropics: Calculating Ranging Cost in Chimpanzees. , 2011, , 289-309.		6
82	Locomotor anatomy and biomechanics of the Dmanisi hominins. <i>Journal of Human Evolution</i> , 2010, 58, 492-504.	1.3	148
83	Waddling and toddling: The biomechanical effects of an immature gait. <i>American Journal of Physical Anthropology</i> , 2010, 143, 52-61.	2.1	60
84	Metabolic adaptation for low energy throughput in orangutans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14048-14052.	3.3	80
85	Great ranging associated with greater reproductive investment in mammals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 192-196.	3.3	51
86	The metabolic cost of walking in humans, chimpanzees, and early hominins. <i>Journal of Human Evolution</i> , 2009, 56, 43-54.	1.3	152
87	Understanding hind limb weight support in chimpanzees with implications for the evolution of primate locomotion. <i>American Journal of Physical Anthropology</i> , 2009, 138, 395-402.	2.1	98
88	Control and function of arm swing in human walking and running. <i>Journal of Experimental Biology</i> , 2009, 212, 523-534.	0.8	175
89	Biomechanics of Running Indicates Endothermy in Bipedal Dinosaurs. <i>PLoS ONE</i> , 2009, 4, e7783.	1.1	49
90	Skeletal pathology in <i>Pan troglodytes schweinfurthii</i> in Kibale National Park, Uganda. <i>American Journal of Physical Anthropology</i> , 2008, 135, 389-403.	2.1	52

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91	The Laetoli footprints and early hominin locomotor kinematics. <i>Journal of Human Evolution</i> , 2008, 54, 112-117.	1.3	46
92	Chimpanzee locomotor energetics and the origin of human bipedalism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12265-12269.	3.3	312
93	Effective limb length and the scaling of locomotor cost in terrestrial animals. <i>Journal of Experimental Biology</i> , 2007, 210, 1752-1761.	0.8	146
94	Predicting the energy cost of terrestrial locomotion: a test of the LiMb model in humans and quadrupeds. <i>Journal of Experimental Biology</i> , 2007, 210, 484-494.	0.8	79
95	Postcranial evidence from early Homo from Dmanisi, Georgia. <i>Nature</i> , 2007, 449, 305-310.	13.7	527
96	Ontogeny of Ranging in Wild Chimpanzees. <i>International Journal of Primatology</i> , 2006, 27, 295-309.	0.9	64
97	The human gluteus maximus and its role in running. <i>Journal of Experimental Biology</i> , 2006, 209, 2143-2155.	0.8	153
98	A new model predicting locomotor cost from limb length via force production. <i>Journal of Experimental Biology</i> , 2005, 208, 1513-1524.	0.8	86
99	Climbing and the daily energy cost of locomotion in wild chimpanzees: implications for hominoid locomotor evolution. <i>Journal of Human Evolution</i> , 2004, 46, 315-333.	1.3	131