

# Daniel E Lieberman

## List of Publications by Citations

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**Version:** 2024-04-20

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83  
papers

6,119  
citations

35  
h-index

78  
g-index

88  
ext. papers

7,392  
ext. citations

7.3  
avg, IF

6.27  
L-index

#	Paper	IF	Citations
83	Endurance running and the evolution of Homo. <i>Nature</i> , <b>2004</b> , 432, 345-52	50.4	1101
82	Foot strike patterns and collision forces in habitually barefoot versus shod runners. <i>Nature</i> , <b>2010</b> , 463, 531-5	50.4	918
81	Knee osteoarthritis has doubled in prevalence since the mid-20th century. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 9332-9336	11.5	372
80	The evolution and development of cranial form in Homosapiens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 1134-9	11.5	340
79	Predicting long bone loading from cross-sectional geometry. <i>American Journal of Physical Anthropology</i> , <b>2004</b> , 123, 156-71	2.5	229
78	Effects of footwear and strike type on running economy. <i>Medicine and Science in Sports and Exercise</i> , <b>2012</b> , 44, 1335-43	1.2	217
77	Virtual cranial reconstruction of Sahelanthropus tchadensis. <i>Nature</i> , <b>2005</b> , 434, 755-9	50.4	210
76	Effects of food processing on masticatory strain and craniofacial growth in a retrognathic face. <i>Journal of Human Evolution</i> , <b>2004</b> , 46, 655-77	3.1	188
75	Articular area responses to mechanical loading: effects of exercise, age, and skeletal location. <i>American Journal of Physical Anthropology</i> , <b>2001</b> , 116, 266-77	2.5	176
74	What we can learn about running from barefoot running: an evolutionary medical perspective. <i>Exercise and Sport Sciences Reviews</i> , <b>2012</b> , 40, 63-72	6.7	161
73	The human gluteus maximus and its role in running. <i>Journal of Experimental Biology</i> , <b>2006</b> , 209, 2143-55	3	117
72	Behavioral Differences between Archaic and Modern Humans in the Levantine Mousterian. <i>American Anthropologist</i> , <b>1994</b> , 96, 300-332	1.5	116
71	Impact of meat and Lower Palaeolithic food processing techniques on chewing in humans. <i>Nature</i> , <b>2016</b> , 531, 500-3	50.4	111
70	Spatial packing, cranial base angulation, and craniofacial shape variation in the mammalian skull: testing a new model using mice. <i>Journal of Anatomy</i> , <b>2008</b> , 212, 720-35	2.9	106
69	Walking, running and the evolution of short toes in humans. <i>Journal of Experimental Biology</i> , <b>2009</b> , 212, 713-21	3	101
68	Craniodental variation in Paranthropus boisei: a developmental and functional perspective. <i>American Journal of Physical Anthropology</i> , <b>2001</b> , 116, 13-25	2.5	94
67	Modern-day environmental factors in the pathogenesis of osteoarthritis. <i>Nature Reviews Rheumatology</i> , <b>2018</b> , 14, 674-681	8.1	86

66	THE COEVOLUTION OF HUMAN HANDS AND FEET. <i>Evolution; International Journal of Organic Evolution</i> , <b>2010</b> , 64, 1558-1568	3.8	84
65	A wider pelvis does not increase locomotor cost in humans, with implications for the evolution of childbirth. <i>PLoS ONE</i> , <b>2015</b> , 10, e0118903	3.7	82
64	Is Exercise Really Medicine? An Evolutionary Perspective. <i>Current Sports Medicine Reports</i> , <b>2015</b> , 14, 313-9.	7.6	
63	Speculations about the selective basis for modern human craniofacial form. <i>Evolutionary Anthropology</i> , <b>2008</b> , 17, 55-68	4.7	72
62	Posterior maxillary (PM) plane and anterior cranial architecture in primates. <i>The Anatomical Record</i> , <b>2001</b> , 264, 247-60		69
61	Effects of stride frequency and foot position at landing on braking force, hip torque, impact peak force and the metabolic cost of running in humans. <i>Journal of Experimental Biology</i> , <b>2015</b> , 218, 3406-14	3	68
60	The evolution of marathon running : capabilities in humans. <i>Sports Medicine</i> , <b>2007</b> , 37, 288-90	10.6	66
59	The biology of cementum increments (with an archaeological application). <i>Mammal Review</i> , <b>1992</b> , 22, 57-77	5	63
58	Testing hypotheses about tinkering in the fossil record: the case of the human skull. <i>The Journal of Experimental Zoology</i> , <b>2004</b> , 302, 284-301		58
57	Human locomotion and heat loss: an evolutionary perspective. <i>Comprehensive Physiology</i> , <b>2015</b> , 5, 99-117.	7.7	53
56	Rethinking the evolution of the human foot: insights from experimental research. <i>Journal of Experimental Biology</i> , <b>2018</b> , 221,	3	53
55	Tradeoffs between impact loading rate, vertical impulse and effective mass for walkers and heel strike runners wearing footwear of varying stiffness. <i>Journal of Biomechanics</i> , <b>2015</b> , 48, 1318-24	2.9	40
54	Variation in Foot Strike Patterns among Habitually Barefoot and Shod Runners in Kenya. <i>PLoS ONE</i> , <b>2015</b> , 10, e0131354	3.7	40
53	Upper body contributions to power generation during rapid, overhand throwing in humans. <i>Journal of Experimental Biology</i> , <b>2014</b> , 217, 2139-49	3	39
52	Exercise-induced bone formation is poorly linked to local strain magnitude in the sheep tibia. <i>PLoS ONE</i> , <b>2014</b> , 9, e99108	3.7	38
51	A Pandemic within the Pandemic? Physical Activity Levels Substantially Decreased in Countries Affected by COVID-19. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	38
50	The carbohydrate-insulin model: a physiological perspective on the obesity pandemic. <i>American Journal of Clinical Nutrition</i> , <b>2021</b> ,	7	37
49	Specific circulating microRNAs display dose-dependent responses to variable intensity and duration of endurance exercise. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2018</b> , 315, H273-H283	5.2	36

48	Foot strength and stiffness are related to footwear use in a comparison of minimally- vs. conventionally-shod populations. <i>Scientific Reports</i> , <b>2018</b> , 8, 3679	4.9	35
47	Food material properties and early hominin processing techniques. <i>Journal of Human Evolution</i> , <b>2014</b> , 77, 155-66	3.1	33
46	Foot callus thickness does not trade off protection for tactile sensitivity during walking. <i>Nature</i> , <b>2019</b> , 571, 261-264	50.4	30
45	A genetic basis of variation in eccrine sweat gland and hair follicle density. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 9932-7	11.5	28
44	Effects of pole compliance and step frequency on the biomechanics and economy of pole carrying during human walking. <i>Journal of Applied Physiology</i> , <b>2014</b> , 117, 507-17	3.7	22
43	WEIRD bodies: mismatch, medicine and missing diversity. <i>Evolution and Human Behavior</i> , <b>2020</b> , 41, 330-340		21
42	Comparative evidence for the independent evolution of hair and sweat gland traits in primates. <i>Journal of Human Evolution</i> , <b>2018</b> , 125, 99-105	3.1	20
41	Selection of endurance capabilities and the trade-off between pressure and volume in the evolution of the human heart. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 19905-19910	11.5	19
40	Using principal trabecular orientation to differentiate joint loading orientation in the 3rd metacarpal heads of humans and chimpanzees. <i>Journal of Human Evolution</i> , <b>2017</b> , 113, 173-182	3.1	18
39	Evolutionary anatomy of the plantar aponeurosis in primates, including humans. <i>Journal of Anatomy</i> , <b>2020</b> , 237, 85-104	2.9	15
38	2. Reconstructing the Last Common Ancestor of Chimpanzees and Humans <b>2017</b> , 22-141		15
37	The extensibility of the plantar fascia influences the windlass mechanism during human running. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2021</b> , 288, 20202095	4.4	15
36	The capacity of the human iliotibial band to store elastic energy during running. <i>Journal of Biomechanics</i> , <b>2015</b> , 48, 3341-8	2.9	14
35	Heel impact forces during barefoot versus minimally shod walking among Tarahumara subsistence farmers and urban Americans. <i>Royal Society Open Science</i> , <b>2018</b> , 5, 180044	3.3	14
34	A cross-species approach to disorders affecting brain and behaviour. <i>Nature Reviews Neurology</i> , <b>2018</b> , 14, 677-686	15	14
33	Shock attenuation in the human lumbar spine during walking and running. <i>Journal of Experimental Biology</i> , <b>2018</b> , 221,	3	12
32	Lower back pain. <i>Evolution, Medicine and Public Health</i> , <b>2015</b> , 2015, 2-3	3	11
31	Physical and geometric constraints shape the labyrinth-like nasal cavity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 2936-2941	11.5	10

30	Osteoporosis. <i>Evolution, Medicine and Public Health</i> , <b>2015</b> , 2015, 343	3	9
29	Knee osteoarthritis risk in non-industrial societies undergoing an energy balance transition: evidence from the indigenous Tarahumara of Mexico. <i>Annals of the Rheumatic Diseases</i> , <b>2019</b> , 78, 1693-1698	2.4	8
28	Dose-Response Effects of Exercise on Glucose-Lowering Medications for Type 2 Diabetes: A Secondary Analysis of a Randomized Clinical Trial. <i>Mayo Clinic Proceedings</i> , <b>2020</b> , 95, 488-503	6.4	8
27	Diversity and evolution of human eccrine sweat gland density. <i>Journal of Thermal Biology</i> , <b>2019</b> , 84, 331-338	3.8	7
26	An expanded repertoire of intensity-dependent exercise-responsive plasma proteins tied to loci of human disease risk. <i>Scientific Reports</i> , <b>2020</b> , 10, 10831	4.9	7
25	Testing biomechanical models of human lumbar lordosis variability. <i>American Journal of Physical Anthropology</i> , <b>2017</b> , 163, 110-121	2.5	6
24	The human iliotibial band is specialized for elastic energy storage compared with the chimp fascia lata. <i>Journal of Experimental Biology</i> , <b>2015</b> , 218, 2382-93	3	6
23	Running in Tarahumara (Rar̄ñuri) Culture. <i>Current Anthropology</i> , <b>2020</b> , 61, 356-379	2.1	6
22	Stepping Back to Minimal Footwear: Applications Across the Lifespan. <i>Exercise and Sport Sciences Reviews</i> , <b>2021</b> , 49, 228-243	6.7	6
21	Thoracic adaptations for ventilation during locomotion in humans and other mammals. <i>Journal of Experimental Biology</i> , <b>2019</b> , 222,	3	5
20	Effect of the upward curvature of toe springs on walking biomechanics in humans. <i>Scientific Reports</i> , <b>2020</b> , 10, 14643	4.9	5
19	Geometric morphometric investigation of craniofacial morphological change in domesticated silver foxes. <i>Scientific Reports</i> , <b>2021</b> , 11, 2582	4.9	5
18	One-year intensive lifestyle intervention and improvements in health-related quality of life and mental health in persons with type 2 diabetes: a secondary analysis of the U-TURN randomized controlled trial. <i>BMJ Open Diabetes Research and Care</i> , <b>2021</b> , 9,	4.5	5
17	Straight arm walking, bent arm running: gait-specific elbow angles. <i>Journal of Experimental Biology</i> , <b>2019</b> , 222,	3	4
16	A systematic review of adherence to physical activity interventions in individuals with type 2 diabetes. <i>Diabetes/Metabolism Research and Reviews</i> , <b>2021</b> , 37, e3444	7.5	4
15	Sports and the human brain: an evolutionary perspective. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , <b>2018</b> , 158, 3-10	3	4
14	The evolutionary developmental biology of tinkering: an introduction to the challenge. <i>Novartis Foundation Symposium</i> , <b>2007</b> , 284, 1-19; discussion 110-5		4
13	Physical fitness differences between rural and urban children from western Kenya. <i>American Journal of Human Biology</i> , <b>2016</b> , 28, 514-23	2.7	3

12	The active grandparent hypothesis: Physical activity and the evolution of extended human healthspans and lifespans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	3
11	Experimental evidence that physical activity inhibits osteoarthritis: Implications for inferring activity patterns from osteoarthritis in archeological human skeletons. <i>American Journal of Biological Anthropology</i> ,		2
10	The human foot functions like a spring of adjustable stiffness during running. <i>Journal of Experimental Biology</i> , <b>2021</b> , 224,	3	2
9	Neuromechanical linkage between the head and forearm during running. <i>American Journal of Physical Anthropology</i> , <b>2021</b> , 174, 752-762	2.5	2
8	Historical body temperature records as a population-level thermometer of physical activity in the United States. <i>Current Biology</i> , <b>2021</b> , 31, R1375-R1376	6.3	1
7	The effect of trunk flexion angle on lower limb mechanics during running. <i>Human Movement Science</i> , <b>2021</b> , 78, 102817	2.4	1
6	Cultural variation in running techniques among non-industrial societies. <i>Evolutionary Human Sciences</i> , 1-31	2.2	1
5	Reply to A Drewnowski et al, O Devinsky, D A Booth and E L Gibson, and D J Millward.. <i>American Journal of Clinical Nutrition</i> , <b>2022</b> , 115, 595-597	7	0
4	Assessing patterns of variation in BV/TV in the calcaneus and C2 vertebra of Gorilla gorilla, Pan troglodytes, and populations of Homo sapiens from the Pleistocene and Holocene that differ in physical activity levels. <i>American Journal of Physical Anthropology</i> , <b>2020</b> , 173, 337-349	2.5	0
3	Shorter distal forelimbs benefit bipedal walking and running mechanics: Implications for hominin forelimb evolution. <i>American Journal of Physical Anthropology</i> , <b>2021</b> , 175, 589-598	2.5	0
2	Response to: $\$s$ non-industrial society undergoing an energy balance transition predisposed to accumulate abdominal adipose tissue and susceptible to knee osteoarthritis? Sby Yu. <i>Annals of the Rheumatic Diseases</i> , <b>2020</b> ,	2.4	
1	Reply to Jensen and Wang: Chimpanzees under pressure-Selection of a left ventricular structural and functional phenotype. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 5574-5575	11.5	