

Daniel E Lieberman

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

8,439
citations

76326
40
h-index

56724
83
g-index

88
all docs

88
docs citations

88
times ranked

6933
citing authors

#	ARTICLE	IF	CITATIONS
1	Endurance running and the evolution of Homo. <i>Nature</i> , 2004, 432, 345-352.	27.8	1,413
2	Foot strike patterns and collision forces in habitually barefoot versus shod runners. <i>Nature</i> , 2010, 463, 531-535.	27.8	1,113
3	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> , 2017, 114, 9332-9336.	7.1	599
4	The evolution and development of cranial form in Homo sapiens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 1134-1139.	7.1	397
5	Virtual cranial reconstruction of Sahelanthropus tchadensis. <i>Nature</i> , 2005, 434, 755-759.	27.8	277
6	Effects of Footwear and Strike Type on Running Economy. <i>Medicine and Science in Sports and Exercise</i> , 2012, 44, 1335-1343.	0.4	266
7	Predicting long bone loading from cross-sectional geometry. <i>American Journal of Physical Anthropology</i> , 2004, 123, 156-171.	2.1	264
8	Articular area responses to mechanical loading: effects of exercise, age, and skeletal location. <i>American Journal of Physical Anthropology</i> , 2001, 116, 266-277.	2.1	213
9	Effects of food processing on masticatory strain and craniofacial growth in a retrognathic face. <i>Journal of Human Evolution</i> , 2004, 46, 655-677.	2.6	206
10	What We Can Learn About Running from Barefoot Running. <i>Exercise and Sport Sciences Reviews</i> , 2012, 40, 63-72.	3.0	199
11	Modern-day environmental factors in the pathogenesis of osteoarthritis. <i>Nature Reviews Rheumatology</i> , 2018, 14, 674-681.	8.0	159
12	The human gluteus maximus and its role in running. <i>Journal of Experimental Biology</i> , 2006, 209, 2143-2155.	1.7	153
13	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> , 2021, 18, 2235.	2.6	152
14	Impact of meat and Lower Palaeolithic food processing techniques on chewing in humans. <i>Nature</i> , 2016, 531, 500-503.	27.8	148
15	The carbohydrate-insulin model: a physiological perspective on the obesity pandemic. <i>American Journal of Clinical Nutrition</i> , 2021, 114, 1873-1885.	4.7	141
16	Behavioral Differences between Archaic and Modern Humans in the Levantine Mousterian. <i>American Anthropologist</i> , 1994, 96, 300-332.	1.4	137
17	Spatial packing, cranial base angulation, and craniofacial shape variation in the mammalian skull: testing a new model using mice. <i>Journal of Anatomy</i> , 2008, 212, 720-735.	1.5	131
18	Walking, running and the evolution of short toes in humans. <i>Journal of Experimental Biology</i> , 2009, 212, 713-721.	1.7	130

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19	Is Exercise Really Medicine? An Evolutionary Perspective. <i>Current Sports Medicine Reports</i> , 2015, 14, 313-319.	1.2	113
20	A Wider Pelvis Does Not Increase Locomotor Cost in Humans, with Implications for the Evolution of Childbirth. <i>PLoS ONE</i> , 2015, 10, e0118903.	2.5	110
21	Craniodental variation in <i>Paranthropus boisei</i> : A developmental and functional perspective. <i>American Journal of Physical Anthropology</i> , 2001, 116, 13-25.	2.1	107
22	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> , 2015, 218, 3406-3414.	1.7	106
23	THE COEVOLUTION OF HUMAN HANDS AND FEET. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 1558-1568.	2.3	103
24	The Evolution of Marathon Running. <i>Sports Medicine</i> , 2007, 37, 288-290.	6.5	90
25	Rethinking the evolution of the human foot: insights from experimental research. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	89
26	Interleukin 6 as an energy allocator in muscle tissue. <i>Nature Metabolism</i> , 2022, 4, 170-179.	11.9	88
27	The biology of cementum increments (with an archaeological application). <i>Mammal Review</i> , 1992, 22, 57-77.	4.8	82
28	Speculations about the selective basis for modern human craniofacial form. <i>Evolutionary Anthropology</i> , 2008, 17, 55-68.	3.4	81
29	Posterior maxillary (PM) plane and anterior cranial architecture in primates. <i>The Anatomical Record</i> , 2001, 264, 247-260.	1.8	78
30	Human Locomotion and Heat Loss: An Evolutionary Perspective. , 2015, 5, 99-117.		75
31	Testing hypotheses about tinkering in the fossil record: the case of the human skull. <i>The Journal of Experimental Zoology</i> , 2004, 302B, 284-301.	1.4	64
32	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> , 2015, 112, 9932-9937.	7.1	57
33	Foot strength and stiffness are related to footwear use in a comparison of minimally- vs. conventionally-shod populations. <i>Scientific Reports</i> , 2018, 8, 3679.	3.3	55
34	Variation in Foot Strike Patterns among Habitually Barefoot and Shod Runners in Kenya. <i>PLoS ONE</i> , 2015, 10, e0131354.	2.5	55
35	WEIRD bodies: mismatch, medicine and missing diversity. <i>Evolution and Human Behavior</i> , 2020, 41, 330-340.	2.2	54
36	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> , 2018, 315, H273-H283.	3.2	52

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37	Foot callus thickness does not trade off protection for tactile sensitivity during walking. <i>Nature</i> , 2019, 571, 261-264.	27.8	52
38	Upper body contributions to power generation during rapid, overhand throwing in humans. <i>Journal of Experimental Biology</i> , 2014, 217, 2139-49.	1.7	51
39	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> , 2015, 48, 1318-1324.	2.1	51
40	Food material properties and early hominin processing techniques. <i>Journal of Human Evolution</i> , 2014, 77, 155-166.	2.6	45
41	Exercise-Induced Bone Formation Is Poorly Linked to Local Strain Magnitude in the Sheep Tibia. <i>PLoS ONE</i> , 2014, 9, e99108.	2.5	45
42	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> , 2019, 116, 19905-19910.	7.1	37
43	The extensibility of the plantar fascia influences the windlass mechanism during human running. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20202095.	2.6	37
44	Comparative evidence for the independent evolution of hair and sweat gland traits in primates. <i>Journal of Human Evolution</i> , 2018, 125, 99-105.	2.6	36
45	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> , 2021, 118, .	7.1	31
46	Effects of pole compliance and step frequency on the biomechanics and economy of pole carrying during human walking. <i>Journal of Applied Physiology</i> , 2014, 117, 507-517.	2.5	29
47	Using principal trabecular orientation to differentiate joint loading orientation in the 3rd metacarpal heads of humans and chimpanzees. <i>Journal of Human Evolution</i> , 2017, 113, 173-182.	2.6	25
48	2. Reconstructing the Last Common Ancestor of Chimpanzees and Humans. , 2017, , 22-141.		24
49	A systematic review of adherence to physical activity interventions in individuals with type 2 diabetes. <i>Diabetes/Metabolism Research and Reviews</i> , 2021, 37, e3444.	4.0	23
50	The capacity of the human iliotibial band to store elastic energy during running. <i>Journal of Biomechanics</i> , 2015, 48, 3341-3348.	2.1	21
51	Evolutionary anatomy of the plantar aponeurosis in primates, including humans. <i>Journal of Anatomy</i> , 2020, 237, 85-104.	1.5	21
52	Lower back pain. <i>Evolution, Medicine and Public Health</i> , 2015, 2015, 2-3.	2.5	20
53	Diversity and evolution of human eccrine sweat gland density. <i>Journal of Thermal Biology</i> , 2019, 84, 331-338.	2.5	19
54	An expanded repertoire of intensity-dependent exercise-responsive plasma proteins tied to loci of human disease risk. <i>Scientific Reports</i> , 2020, 10, 10831.	3.3	19

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55	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> , 2021, 9, e001840.	2.8	19
56	Shock attenuation in the human lumbar spine during walking and running. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	18
57	Heel impact forces during barefoot versus minimally shod walking among Tarahumara subsistence farmers and urban Americans. <i>Royal Society Open Science</i> , 2018, 5, 180044.	2.4	18
58	A cross-species approach to disorders affecting brain and behaviour. <i>Nature Reviews Neurology</i> , 2018, 14, 677-686.	10.1	18
59	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> , 2019, 78, 1693-1698.	0.9	17
60	Stepping Back to Minimal Footwear: Applications Across the Lifespan. <i>Exercise and Sport Sciences Reviews</i> , 2021, 49, 228-243.	3.0	17
61	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> , 2018, 115, 2936-2941.	7.1	15
62	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> , 2020, 95, 488-503.	3.0	14
63	The human iliotibial band is specialized for elastic energy storage compared with the chimp fascia lata. <i>Journal of Experimental Biology</i> , 2015, 218, 2382-93.	1.7	12
64	Effect of the upward curvature of toe springs on walking biomechanics in humans. <i>Scientific Reports</i> , 2020, 10, 14643.	3.3	12
65	Running in Tarahumara (Rarámuri) Culture. <i>Current Anthropology</i> , 2020, 61, 356-379.	1.6	12
66	Geometric morphometric investigation of craniofacial morphological change in domesticated silver foxes. <i>Scientific Reports</i> , 2021, 11, 2582.	3.3	12
67	Testing biomechanical models of human lumbar lordosis variability. <i>American Journal of Physical Anthropology</i> , 2017, 163, 110-121.	2.1	11
68	Thoracic adaptations for ventilation during locomotion in humans and other mammals. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	11
69	The effect of trunk flexion angle on lower limb mechanics during running. <i>Human Movement Science</i> , 2021, 78, 102817.	1.4	11
70	Osteoporosis. <i>Evolution, Medicine and Public Health</i> , 2015, 2015, 343-343.	2.5	10
71	Historical body temperature records as a population-level “thermometer” of physical activity in the United States. <i>Current Biology</i> , 2021, 31, R1375-R1376.	3.9	9
72	Sports and the human brain: an evolutionary perspective. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2018, 158, 3-10.	1.8	8

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73	Physical fitness differences between rural and urban children from western Kenya. American Journal of Human Biology, 2016, 28, 514-523.	1.6	7
74	Cultural variation in running techniques among non-industrial societies. Evolutionary Human Sciences, 2022, 4, .	1.7	7
75	Straight arm walking, bent arm running: gait-specific elbow angles. Journal of Experimental Biology, 2019, 222, .	1.7	6
76	The Evolutionary Developmental Biology of Tinkering: An Introduction to the Challenge. Novartis Foundation Symposium, 2007, 284, 1-19.	1.1	6
77	Experimental evidence that physical activity inhibits osteoarthritis: Implications for inferring activity patterns from osteoarthritis in archeological human skeletons. American Journal of Biological Anthropology, 2022, 177, 223-231.	1.1	6
78	The human foot functions like a spring of adjustable stiffness during running. Journal of Experimental Biology, 2021, 224, .	1.7	4
79	Neuromechanical linkage between the head and forearm during running. American Journal of Physical Anthropology, 2021, 174, 752-762.	2.1	4
80	The evolution of human fatigue resistance. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2022, 192, 411-422.	1.5	4
81	Trunk muscle endurance, strength and flexibility in rural subsistence farmers and urban industrialized adults in western Kenya. American Journal of Human Biology, 2021, , .	1.6	2
82	Comparing high versus low-altitude populations to test human adaptations for increased ventilation during sustained aerobic activity. Scientific Reports, 2022, 12, .	3.3	2
83	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. American Journal of Physical Anthropology, 2020, 173, 337-349.	2.1	1
84	Shorter distal forelimbs benefit bipedal walking and running mechanics: Implications for hominin forelimb evolution. American Journal of Physical Anthropology, 2021, 175, 589-598.	2.1	1
85	OUP accepted manuscript. American Journal of Clinical Nutrition, 2022, 115, 595-597.	4.7	1
86	Response to: “Is non-industrial society undergoing an energy balance transition predisposed to accumulate abdominal adipose tissue and susceptible to knee osteoarthritis?” by Yu et al. Annals of the Rheumatic Diseases, 2022, 81, e64-e64.	0.9	0
87	Reply to Jensen and Wang: Chimpanzees under pressure—Selection of a left ventricular structural and functional phenotype. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5574-5575.	7.1	0