

David Karasik

List of Publications by Citations

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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.

106 papers	6,434 citations	37 h-index	79 g-index
115 ext. papers	7,904 ext. citations	8.9 avg, IF	5.12 L-index

#	Paper	IF	Citations
106	Genome-wide meta-analysis identifies 56 bone mineral density loci and reveals 14 loci associated with risk of fracture. <i>Nature Genetics</i> , 2012 , 44, 491-501	36.3	866
105	Twenty bone-mineral-density loci identified by large-scale meta-analysis of genome-wide association studies. <i>Nature Genetics</i> , 2009 , 41, 1199-206	36.3	566
104	Parent-of-origin-specific allelic associations among 106 genomic loci for age at menarche. <i>Nature</i> , 2014 , 514, 92-97	50.4	401
103	Whole-genome sequencing identifies EN1 as a determinant of bone density and fracture. <i>Nature</i> , 2015 , 526, 112-7	50.4	308
102	An atlas of genetic influences on osteoporosis in humans and mice. <i>Nature Genetics</i> , 2019 , 51, 258-266	36.3	270
101	Genomic analyses identify hundreds of variants associated with age at menarche and support a role for puberty timing in cancer risk. <i>Nature Genetics</i> , 2017 , 49, 834-841	36.3	257
100	Large-scale genomic analyses link reproductive aging to hypothalamic signaling, breast cancer susceptibility and BRCA1-mediated DNA repair. <i>Nature Genetics</i> , 2015 , 47, 1294-1303	36.3	226
99	Large-scale analysis of association between LRP5 and LRP6 variants and osteoporosis. <i>JAMA - Journal of the American Medical Association</i> , 2008 , 299, 1277-90	27.4	204
98	Genome-wide association with bone mass and geometry in the Framingham Heart Study. <i>BMC Medical Genetics</i> , 2007 , 8 Suppl 1, S14	2.1	200
97	GWAS of longevity in CHARGE consortium confirms APOE and FOXO3 candidacy. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015 , 70, 110-8	6.4	188
96	An integration of genome-wide association study and gene expression profiling to prioritize the discovery of novel susceptibility Loci for osteoporosis-related traits. <i>PLoS Genetics</i> , 2010 , 6, e1000977	6	163
95	Association of JAG1 with bone mineral density and osteoporotic fractures: a genome-wide association study and follow-up replication studies. <i>American Journal of Human Genetics</i> , 2010 , 86, 229-35 ¹¹	35.1	156
94	Meta-analysis of genome-wide scans provides evidence for sex- and site-specific regulation of bone mass. <i>Journal of Bone and Mineral Research</i> , 2007 , 22, 173-183	6.3	128
93	Life-Course Genome-wide Association Study Meta-analysis of Total Body BMD and Assessment of Age-Specific Effects. <i>American Journal of Human Genetics</i> , 2018 , 102, 88-102	11	119
92	A meta-analysis of four genome-wide association studies of survival to age 90 years or older: the Cohorts for Heart and Aging Research in Genomic Epidemiology Consortium. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2010 , 65, 478-87	6.4	107
91	Genome screen for quantitative trait loci contributing to normal variation in bone mineral density: the Framingham Study. <i>Journal of Bone and Mineral Research</i> , 2002 , 17, 1718-27	6.3	107
90	A meta-analysis of genome-wide association studies identifies multiple longevity genes. <i>Nature Communications</i> , 2019 , 10, 3669	17.4	102

89	Genetic variation at the low-density lipoprotein receptor-related protein 5 (LRP5) locus modulates Wnt signaling and the relationship of physical activity with bone mineral density in men. <i>Bone</i> , 2007 , 40, 587-96	4.7	99
88	Large meta-analysis of genome-wide association studies identifies five loci for lean body mass. <i>Nature Communications</i> , 2017 , 8, 80	17.4	88
87	Age, gender, and body mass effects on quantitative trait loci for bone mineral density: the Framingham Study. <i>Bone</i> , 2003 , 33, 308-16	4.7	85
86	Evidence for pleiotropic factors in genetics of the musculoskeletal system. <i>Bone</i> , 2010 , 46, 1226-37	4.7	82
85	Meta-analysis of genome-wide studies identifies WNT16 and ESR1 SNPs associated with bone mineral density in premenopausal women. <i>Journal of Bone and Mineral Research</i> , 2013 , 28, 547-58	6.3	74
84	Genetics of the musculoskeletal system: a pleiotropic approach. <i>Journal of Bone and Mineral Research</i> , 2008 , 23, 788-802	6.3	74
83	METTL21C is a potential pleiotropic gene for osteoporosis and sarcopenia acting through the modulation of the NF- κ B signaling pathway. <i>Journal of Bone and Mineral Research</i> , 2014 , 29, 1531-1540	6.3	63
82	Interactions of interleukin-6 promoter polymorphisms with dietary and lifestyle factors and their association with bone mass in men and women from the Framingham Osteoporosis Study. <i>Journal of Bone and Mineral Research</i> , 2004 , 19, 552-9	6.3	63
81	Contribution of gender-specific genetic factors to osteoporosis risk. <i>Annals of Human Genetics</i> , 2008 , 72, 696-714	2.2	60
80	Accelerated Bone Regeneration by Nitrogen-Doped Carbon Dots Functionalized with Hydroxyapatite Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 19373-19385	9.5	58
79	Genome screen for a combined bone phenotype using principal component analysis: the Framingham study. <i>Bone</i> , 2004 , 34, 547-56	4.7	54
78	Bivariate genome-wide association meta-analysis of pediatric musculoskeletal traits reveals pleiotropic effects at the SREBF1/TOM1L2 locus. <i>Nature Communications</i> , 2017 , 8, 121	17.4	52
77	Mapping of quantitative ultrasound of the calcaneus bone to chromosome 1 by genome-wide linkage analysis. <i>Osteoporosis International</i> , 2002 , 13, 796-802	5.3	52
76	PPARG by dietary fat interaction influences bone mass in mice and humans. <i>Journal of Bone and Mineral Research</i> , 2008 , 23, 1398-408	6.3	51
75	Hip structural geometry in old and old-old age: similarities and differences between men and women. <i>Bone</i> , 2007 , 41, 722-32	4.7	51
74	Identification of homogeneous genetic architecture of multiple genetically correlated traits by block clustering of genome-wide associations. <i>Journal of Bone and Mineral Research</i> , 2011 , 26, 1261-71	6.3	45
73	Mouse BMD quantitative trait loci show improved concordance with human genome-wide association loci when recalculated on a new, common mouse genetic map. <i>Journal of Bone and Mineral Research</i> , 2010 , 25, 1808-20	6.3	45
72	Proximal hip geometry is linked to several chromosomal regions: genome-wide linkage results from the Framingham Osteoporosis Study. <i>Bone</i> , 2007 , 40, 743-50	4.7	45

71	Genome-wide pleiotropy of osteoporosis-related phenotypes: the Framingham Study. <i>Journal of Bone and Mineral Research</i> , 2010 , 25, 1555-63	6.3	44
70	Heritability of prevalent vertebral fracture and volumetric bone mineral density and geometry at the lumbar spine in three generations of the Framingham study. <i>Journal of Bone and Mineral Research</i> , 2012 , 27, 954-8	6.3	40
69	Assessment of gene-by-sex interaction effect on bone mineral density. <i>Journal of Bone and Mineral Research</i> , 2012 , 27, 2051-64	6.3	37
68	Development and evaluation of novel biodegradable chitosan based metformin intrapocket dental film for the management of periodontitis and alveolar bone loss in a rat model. <i>Archives of Oral Biology</i> , 2018 , 85, 120-129	2.8	36
67	The genetics of bone mass and susceptibility to bone diseases. <i>Nature Reviews Rheumatology</i> , 2016 , 12, 323-34	8.1	35
66	GWAS analysis of handgrip and lower body strength in older adults in the CHARGE consortium. <i>Aging Cell</i> , 2016 , 15, 792-800	9.9	33
65	Novel Genetic Variants Associated With Increased Vertebral Volumetric BMD, Reduced Vertebral Fracture Risk, and Increased Expression of SLC1A3 and EPHB2. <i>Journal of Bone and Mineral Research</i> , 2016 , 31, 2085-2097	6.3	33
64	Bivariate genome-wide linkage analysis of femoral bone traits and leg lean mass: Framingham study. <i>Journal of Bone and Mineral Research</i> , 2009 , 24, 710-8	6.3	32
63	Identification of Novel Loci Associated With Hip Shape: A Meta-Analysis of Genomewide Association Studies. <i>Journal of Bone and Mineral Research</i> , 2019 , 34, 241-251	6.3	32
62	Fluorescent Nanoparticles with Tissue-Dependent Affinity for Live Zebrafish Imaging. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18557-18565	9.5	29
61	Novel therapeutic intervention for osteoporosis prepared with strontium hydroxyapatite and zoledronic acid: In vitro and pharmacodynamic evaluation. <i>Materials Science and Engineering C</i> , 2017 , 71, 698-708	8.3	29
60	Plasma exosomes stimulate breast cancer metastasis through surface interactions and activation of FAK signaling. <i>Breast Cancer Research and Treatment</i> , 2019 , 174, 129-141	4.4	29
59	Genetic insights into biological mechanisms governing human ovarian ageing. <i>Nature</i> , 2021 , 596, 393-397	10.4	28
58	Bivariate linkage study of proximal hip geometry and body size indices: the Framingham study. <i>Calcified Tissue International</i> , 2007 , 81, 162-73	3.9	27
57	Impact of common variation in bone-related genes on type 2 diabetes and related traits. <i>Diabetes</i> , 2012 , 61, 2176-86	0.9	25
56	The genetic pleiotropy of musculoskeletal aging. <i>Frontiers in Physiology</i> , 2012 , 3, 303	4.6	25
55	Disentangling the genetics of lean mass. <i>American Journal of Clinical Nutrition</i> , 2019 , 109, 276-287	7	24
54	Using zebrafish to study skeletal genomics. <i>Bone</i> , 2019 , 126, 37-50	4.7	23

53	Heritability and Genetic Correlations for Bone Microarchitecture: The Framingham Study Families. <i>Journal of Bone and Mineral Research</i> , 2017 , 32, 106-114	6.3	21
52	Genome-wide association of an integrated osteoporosis-related phenotype: is there evidence for pleiotropic genes?. <i>Journal of Bone and Mineral Research</i> , 2012 , 27, 319-30	6.3	21
51	Osteoporosis: an evolutionary perspective. <i>Human Genetics</i> , 2008 , 124, 349-56	6.3	21
50	Genetics of Bone and Muscle Interactions in Humans. <i>Current Osteoporosis Reports</i> , 2019 , 17, 86-95	5.4	21
49	How pleiotropic genetics of the musculoskeletal system can inform genomics and phenomics of aging. <i>Age</i> , 2011 , 33, 49-62		20
48	Hip geometry variation is associated with bone mineralization pathway gene variants: The Framingham Study. <i>Journal of Bone and Mineral Research</i> , 2010 , 25, 1564-71	6.3	19
47	Meta-Analysis of Genomewide Association Studies Reveals Genetic Variants for Hip Bone Geometry. <i>Journal of Bone and Mineral Research</i> , 2019 , 34, 1284-1296	6.3	16
46	The complex genetics of gait speed: genome-wide meta-analysis approach. <i>Aging</i> , 2017 , 9, 209-246	5.6	16
45	Students as anatomy near-peer teachers: a double-edged sword for an ancient skill. <i>BMC Medical Education</i> , 2017 , 17, 156	3.3	15
44	Refined QTLs of osteoporosis-related traits by linkage analysis with genome-wide SNPs: Framingham SHARE. <i>Bone</i> , 2010 , 46, 1114-21	4.7	14
43	A genome wide linkage scan of metacarpal size and geometry in the Framingham Study. <i>American Journal of Human Biology</i> , 2008 , 20, 663-70	2.7	13
42	Genetic variation in TRPS1 may regulate hip geometry as well as bone mineral density. <i>Bone</i> , 2012 , 50, 1188-95	4.7	11
41	mRNA-lncRNA Co-Expression Network Analysis Reveals the Role of lncRNAs in Immune Dysfunction during Severe SARS-CoV-2 Infection. <i>Viruses</i> , 2021 , 13,	6.2	11
40	Impact of the environment on the skeleton: is it modulated by genetic factors?. <i>Current Osteoporosis Reports</i> , 2013 , 11, 219-28	5.4	10
39	Genome-wide meta-analysis of muscle weakness identifies 15 susceptibility loci in older men and women. <i>Nature Communications</i> , 2021 , 12, 654	17.4	10
38	Osteoporosis genetics: year 2011 in review. <i>BoneKEy Reports</i> , 2012 , 1, 114		8
37	The Musculoskeletal Knowledge Portal: Making Omics Data Useful to the Broader Scientific Community. <i>Journal of Bone and Mineral Research</i> , 2020 , 35, 1626-1633	6.3	8
36	Zebrafish models of sarcopenia. <i>DMM Disease Models and Mechanisms</i> , 2020 , 13,	4.1	8

35	A study of Kibbutzim in Israel reveals risk factors for cardiometabolic traits and subtle population structure. <i>European Journal of Human Genetics</i> , 2018 , 26, 1848-1858	5.3	7
34	A regulatory variant at 3q21.1 confers an increased pleiotropic risk for hyperglycemia and altered bone mineral density. <i>Cell Metabolism</i> , 2021 , 33, 615-628.e13	24.6	7
33	FABP4 is a leading candidate gene associated with residual feed intake in growing Holstein calves. <i>Physiological Genomics</i> , 2016 , 48, 367-76	3.6	7
32	Targeted sequencing of genome wide significant loci associated with bone mineral density (BMD) reveals significant novel and rare variants: the Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) targeted sequencing study. <i>Human Molecular Genetics</i> , 2016 , 25, 5234-5243	5.6	6
31	Genetic diversity is a predictor of mortality in humans. <i>BMC Genetics</i> , 2014 , 15, 159	2.6	6
30	Structural maintenance of chromosome complexes and bone development: the beginning of a wonderful relationship?. <i>BoneKEy Reports</i> , 2013 , 2, 388		5
29	Educating Future Doctors in Covid-19 Times: Anatomists Lead the Way!. <i>Anatomical Sciences Education</i> , 2021 , 14, 426-427	6.8	5
28	Leukocyte telomere length pattern in a Chuvash population that experienced mass famine in 1922-1923: a retrospective cohort study. <i>American Journal of Clinical Nutrition</i> , 2016 , 104, 1410-1415	7	5
27	A genome-wide scan for pleiotropy between bone mineral density and nonbone phenotypes. <i>Bone Research</i> , 2020 , 8, 26	13.3	4
26	Lrp5 Mutant and Crisprant Zebrafish Faithfully Model Human Osteoporosis, Establishing the Zebrafish as a Platform for CRISPR-Based Functional Screening of Osteoporosis Candidate Genes. <i>Journal of Bone and Mineral Research</i> , 2021 , 36, 1749-1764	6.3	4
25	Footprints in the Sand: Deep Taxonomic Comparisons in Vertebrate Genomics to Unveil the Genetic Programs of Human Longevity. <i>Frontiers in Genetics</i> , 2021 , 12, 678073	4.5	4
24	Genome-wide identification of novel long non-coding RNAs and their possible roles in hypoxic zebrafish brain. <i>Genomics</i> , 2021 , 113, 29-43	4.3	4
23	Models to explore genetics of human aging. <i>Advances in Experimental Medicine and Biology</i> , 2015 , 847, 141-61	3.6	3
22	Bone Strength Estimated by Micro-Finite Element Analysis (μFEA) Is Heritable and Shares Genetic Predisposition With Areal BMD: The Framingham Study. <i>Journal of Bone and Mineral Research</i> , 2017 , 32, 2151-2156	6.3	3
21	Genetic basis of falling risk susceptibility in the UK Biobank Study. <i>Communications Biology</i> , 2020 , 3, 543	6.7	3
20	Genetic variants modify the associations of concentrations of methylmalonic acid, vitamin B-12, vitamin B-6, and folate with bone mineral density. <i>American Journal of Clinical Nutrition</i> , 2021 , 114, 578-587	7.87	3
19	Intrauterine stress induces bone loss in adult offspring of C3H/HeJ mice having high bone mass phenotype but not C57BL/6J mice with low bone mass phenotype. <i>Bone</i> , 2016 , 87, 114-9	4.7	3
18	Novel model of restricted mobility induced osteopenia in zebrafish. <i>Journal of Fish Biology</i> , 2021 , 98, 1031-1038	1.9	3

17	Deletion of SREBF1, a Functional Bone-Muscle Pleiotropic Gene, Alters Bone Density and Lipid Signaling in Zebrafish. <i>Endocrinology</i> , 2021 , 162,	4.8	3
16	The influence of adult hip shape genetic variants on adolescent hip shape: Findings from a population-based DXA study. <i>Bone</i> , 2021 , 143, 115792	4.7	3
15	A Meta-Analysis of the Transferability of Bone Mineral Density Genetic Loci Associations From European to African Ancestry Populations. <i>Journal of Bone and Mineral Research</i> , 2021 , 36, 469-479	6.3	2
14	Opportunities and Challenges in Functional Genomics Research in Osteoporosis: Report From a Workshop Held by the Causes Working Group of the Osteoporosis and Bone Research Academy of the Royal Osteoporosis Society on October 5th 2020. <i>Frontiers in Endocrinology</i> , 2020 , 11, 630875	5.7	2
13	The "GENomics of Musculo Skeletal Traits TranslatiOnal NETwork": Origins, Rationale, Organization, and Prospects. <i>Frontiers in Endocrinology</i> , 2021 , 12, 709815	5.7	2
12	GeneDiet Interactions on Bone 2015 , 21-36		1
11	Perspective of the GEMSTONE Consortium on Current and Future Approaches to Functional Validation for Skeletal Genetic Disease Using Cellular, Molecular and Animal-Modeling Techniques.. <i>Frontiers in Endocrinology</i> , 2021 , 12, 731217	5.7	1
10	The Effect of Season, Occupation and Repeated Winterings on Anthropologic and Physiological Characteristics in Russian Antarctic Staff. <i>International Journal of Circumpolar Health</i> , 2001 , 60, 41-51	1.7	1
9	Searching for parent-of-origin effects on cardiometabolic traits in imprinted genomic regions. <i>European Journal of Human Genetics</i> , 2020 , 28, 646-655	5.3	1
8	Genetic Pleiotropy of Bone-Related Phenotypes: Insights from Osteoporosis. <i>Current Osteoporosis Reports</i> , 2020 , 18, 606-619	5.4	1
7	Bone Phenotyping Approaches in Human, Mice and Zebrafish - Expert Overview of the EU Cost Action GEMSTONE ("GENomics of MusculoSkeletal traits TranslatiOnal NETwork").. <i>Frontiers in Endocrinology</i> , 2021 , 12, 720728	5.7	0
6	Genetics of Osteoporosis in Older Age 2016 , 141-155		0
5	Acute hypoxia elevates arginase 2 and induces polyamine stress response in zebrafish via evolutionarily conserved mechanism.. <i>Cellular and Molecular Life Sciences</i> , 2021 , 79, 1	10.3	0
4	Genetics of Human Aging 2018 , 1025-1039		
3	METTL21C: From GWAS to in vitro function in skeletal muscle cells. <i>FASEB Journal</i> , 2013 , 27, 942.5	0.9	
2	Evaluation of the long-term skeletal effect induced by teratogen 5-aza-2'-deoxycytidine on offspring of high (C3H/HeJ) and low (C57BL/6J) bone mass phenotype mice. <i>Bone Reports</i> , 2018 , 8, 239-243	2.6	
1	Genetics of osteosarcopenia 2022 , 217-238		