David Karasik

List of Publications by Year in Descending Order

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	Genetics of osteosarcopenia **2022**, 217-238		
105	Perspective of the GEMSTONE Consortium on Current and Future Approaches to Functional Validation for Skeletal Genetic Disease Using Cellular, Molecular and Animal-Modeling Techniques.. *Frontiers in Endocrinology*, **2021**, 12, 731217	5.7	1
104	Bone Phenotyping Approaches in Human, Mice and Zebrafish - Expert Overview of the EU Cost Action GEMSTONE ("GEnomics of MusculoSkeletal traits TranslatiOnal NEtwork").. *Frontiers in Endocrinology*, **2021**, 12, 720728	5.7	0
103	mRNA-lncRNA Co-Expression Network Analysis Reveals the Role of lncRNAs in Immune Dysfunction during Severe SARS-CoV-2 Infection. *Viruses*, **2021**, 13,	6.2	11
102	A regulatory variant at 3q21.1 confers an increased pleiotropic risk for hyperglycemia and altered bone mineral density. *Cell Metabolism*, **2021**, 33, 615-628.e13	24.6	7
101	Genetic variants modify the associations of concentrations of methylmalonic acid, vitamin B-12, vitamin B-6, and folate with bone mineral density. *American Journal of Clinical Nutrition*, **2021**, 114, 578-587	7	3
100	Lrp5 Mutant and Crispant Zebrafish Faithfully Model Human Osteoporosis, Establishing the Zebrafish as a Platform for CRISPR-Based Functional Screening of Osteoporosis Candidate Genes. *Journal of Bone and Mineral Research*, **2021**, 36, 1749-1764	6.3	4
99	Footprints in the Sand: Deep Taxonomic Comparisons in Vertebrate Genomics to Unveil the Genetic Programs of Human Longevity. *Frontiers in Genetics*, **2021**, 12, 678073	4.5	4
98	Educating Future Doctors in Covid-19 Times: Anatomists Lead the Way!. *Anatomical Sciences Education*, **2021**, 14, 426-427	6.8	5
97	Novel model of restricted mobility induced osteopenia in zebrafish. *Journal of Fish Biology*, **2021**, 98, 1031-1038	1.9	3
96	A Meta-Analysis of the Transferability of Bone Mineral Density Genetic Loci Associations From European to African Ancestry Populations. *Journal of Bone and Mineral Research*, **2021**, 36, 469-479	6.3	2
95	Genome-wide identification of novel long non-coding RNAs and their possible roles in hypoxic zebrafish brain. *Genomics*, **2021**, 113, 29-43	4.3	4
94	Deletion of SREBF1, a Functional Bone-Muscle Pleiotropic Gene, Alters Bone Density and Lipid Signaling in Zebrafish. *Endocrinology*, **2021**, 162,	4.8	3
93	Genome-wide meta-analysis of muscle weakness identifies 15 susceptibility loci in older men and women. *Nature Communications*, **2021**, 12, 654	17.4	10
92	The influence of adult hip shape genetic variants on adolescent hip shape: Findings from a population-based DXA study. *Bone*, **2021**, 143, 115792	4.7	3
91	Genetic insights into biological mechanisms governing human ovarian ageing. *Nature*, **2021**, 596, 393-397	50.4	28
90	The "GEnomics of Musculo Skeletal Traits TranslatiOnal NEtwork": Origins, Rationale, Organization, and Prospects. *Frontiers in Endocrinology*, **2021**, 12, 709815	5.7	2

89	Acute hypoxia elevates arginase 2 and induces polyamine stress response in zebrafish via evolutionarily conserved mechanism.. *Cellular and Molecular Life Sciences*, **2021**, 79, 1	10.3	0
88	A genome-wide scan for pleiotropy between bone mineral density and nonbone phenotypes. *Bone Research*, **2020**, 8, 26	13.3	4
87	Searching for parent-of-origin effects on cardiometabolic traits in imprinted genomic regions. *European Journal of Human Genetics*, **2020**, 28, 646-655	5.3	1
86	Genetic basis of falling risk susceptibility in the UK Biobank Study. *Communications Biology*, **2020**, 3, 543	6.7	3
85	The Musculoskeletal Knowledge Portal: Making Omics Data Useful to the Broader Scientific Community. *Journal of Bone and Mineral Research*, **2020**, 35, 1626-1633	6.3	8
84	Genetic Pleiotropy of Bone-Related Phenotypes: Insights from Osteoporosis. *Current Osteoporosis Reports*, **2020**, 18, 606-619	5.4	1
83	Zebrafish models of sarcopenia. *DMM Disease Models and Mechanisms*, **2020**, 13,	4.1	8
82	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. *Frontiers in Endocrinology*, **2020**, 11, 630875	5.7	2
81	Meta-Analysis of Genomewide Association Studies Reveals Genetic Variants for Hip Bone Geometry. *Journal of Bone and Mineral Research*, **2019**, 34, 1284-1296	6.3	16
80	A meta-analysis of genome-wide association studies identifies multiple longevity genes. *Nature Communications*, **2019**, 10, 3669	17.4	102
79	Disentangling the genetics of lean mass. *American Journal of Clinical Nutrition*, **2019**, 109, 276-287	7	24
78	Genetics of Bone and Muscle Interactions in Humans. *Current Osteoporosis Reports*, **2019**, 17, 86-95	5.4	21
77	Using zebrafish to study skeletal genomics. *Bone*, **2019**, 126, 37-50	4.7	23
76	An atlas of genetic influences on osteoporosis in humans and mice. *Nature Genetics*, **2019**, 51, 258-266	36.3	270
75	Plasma exosomes stimulate breast cancer metastasis through surface interactions and activation of FAK signaling. *Breast Cancer Research and Treatment*, **2019**, 174, 129-141	4.4	29
74	Identification of Novel Loci Associated With Hip Shape: A Meta-Analysis of Genomewide Association Studies. *Journal of Bone and Mineral Research*, **2019**, 34, 241-251	6.3	32
73	Life-Course Genome-wide Association Study Meta-analysis of Total Body BMD and Assessment of Age-Specific Effects. *American Journal of Human Genetics*, **2018**, 102, 88-102	11	119
72	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. *Archives of Oral Biology*, **2018**, 85, 120-129	2.8	36

71	A study of Kibbutzim in Israel reveals risk factors for cardiometabolic traits and subtle population structure. *European Journal of Human Genetics*, **2018**, 26, 1848-1858	5.3	7
70	Genetics of Human Aging **2018**, 1025-1039		
69	Accelerated Bone Regeneration by Nitrogen-Doped Carbon Dots Functionalized with Hydroxyapatite Nanoparticles. *ACS Applied Materials & Interfaces*, **2018**, 10, 19373-19385	9.5	58
68	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. *Bone Reports*, **2018**, 8, 239-243	2.6	
67	Genomic analyses identify hundreds of variants associated with age at menarche and support a role for puberty timing in cancer risk. *Nature Genetics*, **2017**, 49, 834-841	36.3	257
66	Fluorescent Nanoparticles with Tissue-Dependent Affinity for Live Zebrafish Imaging. *ACS Applied Materials & Interfaces*, **2017**, 9, 18557-18565	9.5	29
65	Students as anatomy near-peer teachers: a double-edged sword for an ancient skill. *BMC Medical Education*, **2017**, 17, 156	3.3	15
64	Bone Strength Estimated by Micro-Finite Element Analysis (□FEA) Is Heritable and Shares Genetic Predisposition With Areal BMD: The Framingham Study. *Journal of Bone and Mineral Research*, **2017**, 32, 2151-2156	6.3	3
63	Large meta-analysis of genome-wide association studies identifies five loci for lean body mass. *Nature Communications*, **2017**, 8, 80	17.4	88
62	Bivariate genome-wide association meta-analysis of pediatric musculoskeletal traits reveals pleiotropic effects at the SREBF1/TOM1L2 locus. *Nature Communications*, **2017**, 8, 121	17.4	52
61	Novel therapeutic intervention for osteoporosis prepared with strontium hydroxyapatite and zoledronic acid: In vitro and pharmacodynamic evaluation. *Materials Science and Engineering C*, **2017**, 71, 698-708	8.3	29
60	Heritability and Genetic Correlations for Bone Microarchitecture: The Framingham Study Families. *Journal of Bone and Mineral Research*, **2017**, 32, 106-114	6.3	21
59	The complex genetics of gait speed: genome-wide meta-analysis approach. *Aging*, **2017**, 9, 209-246	5.6	16
58	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. *Human Molecular Genetics*, **2016**, 25, 5234-5243	5.6	6
57	Genetics of Osteoporosis in Older Age **2016**, 141-155		0
56	FABP4 is a leading candidate gene associated with residual feed intake in growing Holstein calves. *Physiological Genomics*, **2016**, 48, 367-76	3.6	7
55	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. *Bone*, **2016**, 87, 114-9	4.7	3
54	The genetics of bone mass and susceptibility to bone diseases. *Nature Reviews Rheumatology*, **2016**, 12, 323-34	8.1	35

53	Leukocyte telomere length pattern in a Chuvash population that experienced mass famine in 1922-1923: a retrospective cohort study. *American Journal of Clinical Nutrition*, **2016**, 104, 1410-1415	7	5
52	GWAS analysis of handgrip and lower body strength in older adults in the CHARGE consortium. *Aging Cell*, **2016**, 15, 792-800	9.9	33
51	Novel Genetic Variants Associated With Increased Vertebral Volumetric BMD, Reduced Vertebral Fracture Risk, and Increased Expression of SLC1A3 and EPHB2. *Journal of Bone and Mineral Research*, **2016**, 31, 2085-2097	6.3	33
50	Models to explore genetics of human aging. *Advances in Experimental Medicine and Biology*, **2015**, 847, 141-61	3.6	3
49	GWAS of longevity in CHARGE consortium confirms APOE and FOXO3 candidacy. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2015**, 70, 110-8	6.4	188
48	Large-scale genomic analyses link reproductive aging to hypothalamic signaling, breast cancer susceptibility and BRCA1-mediated DNA repair. *Nature Genetics*, **2015**, 47, 1294-1303	36.3	226
47	Whole-genome sequencing identifies EN1 as a determinant of bone density and fracture. *Nature*, **2015**, 526, 112-7	50.4	308
46	GeneDiet Interactions on Bone **2015**, 21-36		1
45	Parent-of-origin-specific allelic associations among 106 genomic loci for age at menarche. *Nature*, **2014**, 514, 92-97	50.4	401
44	METTL21C is a potential pleiotropic gene for osteoporosis and sarcopenia acting through the modulation of the NF-B signaling pathway. *Journal of Bone and Mineral Research*, **2014**, 29, 1531-1540	6.3	63
43	Genetic diversity is a predictor of mortality in humans. *BMC Genetics*, **2014**, 15, 159	2.6	6
42	Impact of the environment on the skeleton: is it modulated by genetic factors?. *Current Osteoporosis Reports*, **2013**, 11, 219-28	5.4	10
41	Meta-analysis of genome-wide studies identifies WNT16 and ESR1 SNPs associated with bone mineral density in premenopausal women. *Journal of Bone and Mineral Research*, **2013**, 28, 547-58	6.3	74
40	Structural maintenance of chromosome complexes and bone development: the beginning of a wonderful relationship?. *BoneKEy Reports*, **2013**, 2, 388		5
39	METTL21C: From GWAS to in vitro function in skeletal muscle cells. *FASEB Journal*, **2013**, 27, 942.5	0.9	
38	Genome-wide meta-analysis identifies 56 bone mineral density loci and reveals 14 loci associated with risk of fracture. *Nature Genetics*, **2012**, 44, 491-501	36.3	866
37	Genetic variation in TRPS1 may regulate hip geometry as well as bone mineral density. *Bone*, **2012**, 50, 1188-95	4.7	11
36	Assessment of gene-by-sex interaction effect on bone mineral density. *Journal of Bone and Mineral Research*, **2012**, 27, 2051-64	6.3	37

35	Impact of common variation in bone-related genes on type 2 diabetes and related traits. *Diabetes*, **2012**, 61, 2176-86	0.9	25
34	Heritability of prevalent vertebral fracture and volumetric bone mineral density and geometry at the lumbar spine in three generations of the Framingham study. *Journal of Bone and Mineral Research*, **2012**, 27, 954-8	6.3	40
33	Genome-wide association of an integrated osteoporosis-related phenotype: is there evidence for pleiotropic genes?. *Journal of Bone and Mineral Research*, **2012**, 27, 319-30	6.3	21
32	The genetic pleiotropy of musculoskeletal aging. *Frontiers in Physiology*, **2012**, 3, 303	4.6	25
31	Osteoporosis genetics: year 2011 in review. *BoneKEy Reports*, **2012**, 1, 114		8
30	How pleiotropic genetics of the musculoskeletal system can inform genomics and phenomics of aging. *Age*, **2011**, 33, 49-62		20
29	Identification of homogeneous genetic architecture of multiple genetically correlated traits by block clustering of genome-wide associations. *Journal of Bone and Mineral Research*, **2011**, 26, 1261-71	6.3	45
28	An integration of genome-wide association study and gene expression profiling to prioritize the discovery of novel susceptibility Loci for osteoporosis-related traits. *PLoS Genetics*, **2010**, 6, e1000977	6	163
27	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. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2010**, 65, 478-87	6.4	107
26	Refined QTLs of osteoporosis-related traits by linkage analysis with genome-wide SNPs: Framingham SHARe. *Bone*, **2010**, 46, 1114-21	4.7	14
25	Evidence for pleiotropic factors in genetics of the musculoskeletal system. *Bone*, **2010**, 46, 1226-37	4.7	82
24	Hip geometry variation is associated with bone mineralization pathway gene variants: The Framingham Study. *Journal of Bone and Mineral Research*, **2010**, 25, 1564-71	6.3	19
23	Association of JAG1 with bone mineral density and osteoporotic fractures: a genome-wide association study and follow-up replication studies. *American Journal of Human Genetics*, **2010**, 86, 229-39	11	156
22	Genome-wide pleiotropy of osteoporosis-related phenotypes: the Framingham Study. *Journal of Bone and Mineral Research*, **2010**, 25, 1555-63	6.3	44
21	Mouse BMD quantitative trait loci show improved concordance with human genome-wide association loci when recalculated on a new, common mouse genetic map. *Journal of Bone and Mineral Research*, **2010**, 25, 1808-20	6.3	45
20	Twenty bone-mineral-density loci identified by large-scale meta-analysis of genome-wide association studies. *Nature Genetics*, **2009**, 41, 1199-206	36.3	566
19	Bivariate genome-wide linkage analysis of femoral bone traits and leg lean mass: Framingham study. *Journal of Bone and Mineral Research*, **2009**, 24, 710-8	6.3	32
18	Contribution of gender-specific genetic factors to osteoporosis risk. *Annals of Human Genetics*, **2008**, 72, 696-714	2.2	60

17	Large-scale analysis of association between LRP5 and LRP6 variants and osteoporosis. *JAMA - Journal of the American Medical Association*, **2008**, 299, 1277-90	27.4	204
16	Osteoporosis: an evolutionary perspective. *Human Genetics*, **2008**, 124, 349-56	6.3	21
15	A genome wide linkage scan of metacarpal size and geometry in the Framingham Study. *American Journal of Human Biology*, **2008**, 20, 663-70	2.7	13
14	Genetics of the musculoskeletal system: a pleiotropic approach. *Journal of Bone and Mineral Research*, **2008**, 23, 788-802	6.3	74
13	PPARG by dietary fat interaction influences bone mass in mice and humans. *Journal of Bone and Mineral Research*, **2008**, 23, 1398-408	6.3	51
12	Genome-wide association with bone mass and geometry in the Framingham Heart Study. *BMC Medical Genetics*, **2007**, 8 Suppl 1, S14	2.1	200
11	Bivariate linkage study of proximal hip geometry and body size indices: the Framingham study. *Calcified Tissue International*, **2007**, 81, 162-73	3.9	27
10	Proximal hip geometry is linked to several chromosomal regions: genome-wide linkage results from the Framingham Osteoporosis Study. *Bone*, **2007**, 40, 743-50	4.7	45
9	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. *Bone*, **2007** , 40, 587-96	4.7	99
8	Hip structural geometry in old and old-old age: similarities and differences between men and women. *Bone*, **2007**, 41, 722-32	4.7	51
7	Meta-analysis of genome-wide scans provides evidence for sex- and site-specific regulation of bone mass. *Journal of Bone and Mineral Research*, **2007**, 22, 173-183	6.3	128
6	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. *Journal of Bone and Mineral Research*, **2004**, 19, 552-9	6.3	63
5	Genome screen for a combined bone phenotype using principal component analysis: the Framingham study. *Bone*, **2004**, 34, 547-56	4.7	54
4	Age, gender, and body mass effects on quantitative trait loci for bone mineral density: the Framingham Study. *Bone*, **2003**, 33, 308-16	4.7	85
3	Mapping of quantitative ultrasound of the calcaneus bone to chromosome 1 by genome-wide linkage analysis. *Osteoporosis International*, **2002**, 13, 796-802	5.3	52
2	Genome screen for quantitative trait loci contributing to normal variation in bone mineral density: the Framingham Study. *Journal of Bone and Mineral Research*, **2002**, 17, 1718-27	6.3	107
1	The Effect of Season, Occupation and Repeated Winterings on Anthropologic and Physiological Characteristics in Russian Antarctic Staff. *International Journal of Circumpolar Health*, **2001**, 60, 41-51	1.7	1