Joshua N Farr

List of Publications by Year
in descending order

60 papers	7,246 citations	136950 32 h-index	138484 58 g-index
68 all docs	68 docs citations	68 times ranked	8250 citing authors

#	Article	IF	Citations
1	The Achillesâ€™ heel of senescent cells: from transcriptome to senolytic drugs. Aging Cell, 2015, 14, 644-658.	6.7	1,534
2	Senolytics improve physical function and increase lifespan in old age. Nature Medicine, 2018, 24, 1246-1256.	30.7	1,384
3	Targeting cellular senescence prevents age-related bone loss in mice. Nature Medicine, 2017, 23, 1072-1079.	30.7	754
4	In Vivo Assessment of Bone Quality in Postmenopausal Women With Type 2 Diabetes. Journal of Bone and Mineral Research, 2014, 29, 787-795.	2.8	423
5	Identification of Senescent Cells in the Bone Microenvironment. Journal of Bone and Mineral Research, 2016, 31, 1920-1929.	2.8	352
6	The role of cellular senescence in ageing and endocrine disease. Nature Reviews Endocrinology, 2020, 16, 263-275.	9.6	276
7	Fracture Prediction and the Definition of Osteoporosis in Children and Adolescents: The ISCD 2013 Pediatric Official Positions. Journal of Clinical Densitometry, 2014, 17, 275-280.	1.2	227
8	Determinants of bone strength and quality in diabetes mellitus in humans. Bone, 2016, 82, 28-34.	2.9	145
9	Cellular senescence in bone. Bone, 2019, 121, 121-133.	2.9	133
10	Identification of osteoclast-osteoblast coupling factors in humans reveals links between bone and energy metabolism. Nature Communications, 2020, 11, 87.	12.8	118
11	Myostatin as a mediator of sarcopenia versus homeostatic regulator of muscle mass: insights using a new mass spectrometry-based assay. Skeletal Muscle, 2015, 5, 21.	4.2	93
12	Inhibiting Cellular Senescence: A New Therapeutic Paradigm for Age-Related Osteoporosis. Journal of Clinical Endocrinology and Metabolism, 2018, 103, 1282-1290.	3.6	93
13	Relationship of total body fat mass to weight-bearing bone volumetric density, geometry, and strength in young girls. Bone, 2010, 46, 977-984.	2.9	77
14	Independent Roles of Estrogen Deficiency and Cellular Senescence in the Pathogenesis of Osteoporosis: Evidence in Young Adult Mice and Older Humans. Journal of Bone and Mineral Research, 2019, 34, 1407-1418.	2.8	77
15	Targeted Reduction of Senescent Cell Burden Alleviates Focal Radiotherapyâ€Related Bone Loss. Journal of Bone and Mineral Research, 2020, 35, 1119-1131.	2.8	74
16	Standardizing Evaluation of pQCT Image Quality in the Presence of Subject Movement: Qualitative Versus Quantitative Assessment. Calcified Tissue International, 2014, 94, 202-211.	3.1	71
17	Update on the pathogenesis and treatment of skeletal fragility in type 2 diabetes mellitus. Nature Reviews Endocrinology, 2021, 17, 685-697.	9.6	68
18	Skeletal muscle fat content is inversely associated with bone strength in young girls. Journal of Bone and Mineral Research, 2011, 26, 2217-2225.	2.8	64

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19	The Impact of Fat and Obesity on Bone Microarchitecture and Strength in Children. Calcified Tissue International, 2017, 100, 500-513.	3.1	64
20	Effects of Age and Estrogen on Skeletal Gene Expression in Humans as Assessed by RNA Sequencing. PLoS ONE, 2015, 10, e0138347.	2.5	62
21	Bone Strength and Structural Deficits in Children and Adolescents With a Distal Forearm Fracture Resulting From Mild Trauma. Journal of Bone and Mineral Research, 2014, 29, 590-599.	2.8	60
22	Accelerated osteocyte senescence and skeletal fragility in mice with type 2 diabetes. JCI Insight, 2020, 5, .	5.0	60
23	Relationship of Sympathetic Activity to Bone Microstructure, Turnover, and Plasma Osteopontin Levels in Women. Journal of Clinical Endocrinology and Metabolism, 2012, 97, 4219-4227.	3.6	59
24	Applications of a New Handheld Reference Point Indentation Instrument Measuring Bone Material Strength. Journal of Medical Devices, Transactions of the ASME, 2013, 7, 410051-410056.	0.7	59
25	Hdac3 Deficiency Increases Marrow Adiposity and Induces Lipid Storage and Glucocorticoid Metabolism in Osteochondroprogenitor Cells. Journal of Bone and Mineral Research, 2016, 31, 116-128.	2.8	58
26	LPS-induced premature osteocyte senescence: Implications in inflammatory alveolar bone loss and periodontal disease pathogenesis. Bone, 2020, 132, 115220.	2.9	55
27	The Spectrum of Fundamental Basic Science Discoveries Contributing to Organismal Aging. Journal of Bone and Mineral Research, 2018, 33, 1568-1584.	2.8	54
28	Body Composition During Childhood and Adolescence: Relations to Bone Strength and Microstructure. Journal of Clinical Endocrinology and Metabolism, 2014, 99, 4641-4648.	3.6	45
29	Determinants of Bone Material Strength and Cortical Porosity in Patients with Type 2 Diabetes Mellitus. Journal of Clinical Endocrinology and Metabolism, 2020, 105, e3718-e3729.	3.6	45
30	Fracture Incidence and Characteristics in Young Adults Aged 18 to 49 Years: A Population-Based Study. Journal of Bone and Mineral Research, 2017, 32, 2347-2354.	2.8	44
31	Targeted clearance of p21â€•but not p16â€positive senescent cells prevents radiationâ€induced osteoporosis and increased marrow adiposity. Aging Cell, 2022, 21, e13602.	6.7	40
32	Effects of Estrogen with Micronized Progesterone on Cortical and Trabecular Bone Mass and Microstructure in Recently Postmenopausal Women. Journal of Clinical Endocrinology and Metabolism, 2013, 98, E249-E257.	3.6	38
33	Modulation of fracture healing by the transient accumulation of senescent cells. ELife, 2021, 10, .	6.0	37
34	miR-219a-5p Regulates RorÎ² During Osteoblast Differentiation and in Age-related Bone Loss. Journal of Bone and Mineral Research, 2019, 34, 135-144.	2.8	35
35	Cellular senescence in age-related disorders. Translational Research, 2020, 226, 96-104.	5.0	35
36	Global transcriptional profiling using RNA sequencing and DNA methylation patterns in highly enriched mesenchymal cells from young versus elderly women. Bone, 2015, 76, 49-57.	2.9	34

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37	Altered cortical microarchitecture in patients with monoclonal gammopathy of undetermined significance. Blood, 2014, 123, 647-649.	1.4	32
38	Lower trabecular volumetric BMD at metaphyseal regions of weight-bearing bones is associated with prior fracture in young girls. Journal of Bone and Mineral Research, 2011, 26, 380-387.	2.8	30
39	Cellular senescence and the skeleton: pathophysiology and therapeutic implications. Journal of Clinical Investigation, 2022, 132, .	8.2	30
40	Senescent cells exacerbate chronic inflammation and contribute to periodontal disease progression in old mice. Journal of Periodontology, 2021, 92, 1483-1495.	3.4	29
41	Skeletal Aging. Mayo Clinic Proceedings, 2022, 97, 1194-1208.	3.0	29
42	Longitudinal relationships between whole body and central adiposity on weight-bearing bone geometry, density, and bone strength: a pQCT study in young girls. Archives of Osteoporosis, 2013, 8, 156.	2.4	26
43	Effects of Physical Activity and Muscle Quality on Bone Development in Girls. Medicine and Science in Sports and Exercise, 2013, 45, 2332-2340.	0.4	24
44	Periodontal Disease and Senescent Cells: New Players for an Old Oral Health Problem?. International Journal of Molecular Sciences, 2020, 21, 7441.	4.1	23
45	Exercise, Hormones, and Skeletal Adaptations During Childhood and Adolescence. Pediatric Exercise Science, 2014, 26, 384-391.	1.0	22
46	Diminished Bone Strength Is Observed in Adult Women and Men Who Sustained a Mild Trauma Distal Forearm Fracture During Childhood. Journal of Bone and Mineral Research, 2014, 29, 2193-2202.	2.8	21
47	Osteoprotection Through the Deletion of the Transcription Factor Rorî² in Mice. Journal of Bone and Mineral Research, 2018, 33, 720-731.	2.8	21
48	Osteocyte Cellular Senescence. Current Osteoporosis Reports, 2020, 18, 559-567.	3.6	20
49	The role of senolytics in osteoporosis and other skeletal pathologies. Mechanisms of Ageing and Development, 2021, 199, 111565.	4.6	19
50	Development and Application of Mass Spectroscopy Assays for Nî¼-(1-Carboxymethyl)-L-Lysine and Pentosidine in Renal Failure and Diabetes. journal of applied laboratory medicine, The, 2020, 5, 558-568.	1.3	11
51	Bone Marrow Adiposity in Models of Radiation- and Aging-Related Bone Loss Is Dependent on Cellular Senescence. Journal of Bone and Mineral Research, 2020, 37, 997-1011.	2.8	11
52	Regarding â€œTrue Gold or Pyrite: A Review of Reference Point Indentation for Assessing Bone Mechanical Properties In Vivoâ€• Journal of Bone and Mineral Research, 2015, 30, 2325-2326.	2.8	10
53	Identification of a suitable endogenous control miRNA in bone aging and senescence. Gene, 2022, 835, 146642.	2.2	9
54	Effects of diabetes on osteocytes. Current Opinion in Endocrinology, Diabetes and Obesity, 2022, 29, 310-317.	2.3	8

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55	Predictors of teriparatide treatment failure in patients with low bone mass. Bone Reports, 2016, 4, 17-22.	0.4	7
56	Skeletal Effects of Inducible ERÎ± Deletion in Osteocytes in Adult Mice. Journal of Bone and Mineral Research, 2020, 37, 1750-1760.	2.8	7
57	Very Infrequent Zoledronate Therapy â€“ Somehow Still Promisingly Effective. Journal of Clinical Endocrinology and Metabolism, 2020, 105, e2289-e2290.	3.6	1
58	SUN-LB68 Advanced Glycation Endproducts Are Associated With Worse Bone Material Strength in Older Adults With and Without Type 2 Diabetes. Journal of the Endocrine Society, 2020, 4, .	0.2	1
59	Osteoporosis and bone loss. , 2022, , 335-361.		0
60	Cellular senescence and other aging mechanisms in bone and muscle. , 2022, , 19-37.		0