Mary L Bouxsein

List of Publications by Year
in descending order

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288 papers	25,679 citations	8755 75 h-index	7348 152 g-index
301 all docs	301 docs citations	301 times ranked	20756 citing authors

#	Article	IF	Citations
1	Guidelines for assessment of bone microstructure in rodents using microâ€“computed tomography. Journal of Bone and Mineral Research, 2010, 25, 1468-1486.	2.8	3,449
2	The Effects of Parathyroid Hormone and Alendronate Alone or in Combination in Postmenopausal Osteoporosis. New England Journal of Medicine, 2003, 349, 1207-1215.	27.0	1,133
3	In VivoAssessment of Trabecular Bone Microarchitecture by High-Resolution Peripheral Quantitative Computed Tomography. Journal of Clinical Endocrinology and Metabolism, 2005, 90, 6508-6515.	3.6	1,072
4	New approaches for interpreting projected bone densitometry data. Journal of Bone and Mineral Research, 1992, 7, 137-145.	2.8	914
5	Mechanisms of Disease: is osteoporosis the obesity of bone?. Nature Clinical Practice Rheumatology, 2006, 2, 35-43.	3.2	810
6	Population-Based Study of Age and Sex Differences in Bone Volumetric Density, Size, Geometry, and Structure at Different Skeletal Sites. Journal of Bone and Mineral Research, 2004, 19, 1945-1954.	2.8	747
7	Osteoblast-specific Knockout of the Insulin-like Growth Factor (IGF) Receptor Gene Reveals an Essential Role of IGF Signaling in Bone Matrix Mineralization. Journal of Biological Chemistry, 2002, 277, 44005-44012.	3.4	621
8	The hypoxia-inducible factor Î± pathway couples angiogenesis to osteogenesis during skeletal development. Journal of Clinical Investigation, 2007, 117, 1616-1626.	8.2	616
9	Age-Related Changes in Trabecular Architecture Differ in Female and Male C57BL/6J Mice. Journal of Bone and Mineral Research, 2007, 22, 1197-1207.	2.8	500
10	Clinical Use of Quantitative Computed Tomography and Peripheral Quantitative Computed Tomography in the Management of Osteoporosis in Adults: The 2007 ISCD Official Positions. Journal of Clinical Densitometry, 2008, 11, 123-162.	1.2	430
11	Finite Element Analysis Based on In Vivo HR-pQCT Images of the Distal Radius Is Associated With Wrist Fracture in Postmenopausal Women. Journal of Bone and Mineral Research, 2008, 23, 392-399.	2.8	414
12	Irisin Mediates Effects on Bone and Fat via Î±V Integrin Receptors. Cell, 2018, 175, 1756-1768.e17.	28.9	372
13	Control of Bone Mass and Remodeling by PTH Receptor Signaling in Osteocytes. PLoS ONE, 2008, 3, e2942.	2.5	331
14	Effects of resistance and endurance exercise on bone mineral status of young women: A randomized exercise intervention trial. Journal of Bone and Mineral Research, 1992, 7, 761-769.	2.8	326
15	Caloric restriction leads to high marrow adiposity and low bone mass in growing mice. Journal of Bone and Mineral Research, 2010, 25, 2078-2088.	2.8	295
16	Metastatic osteosarcoma induced by inactivation of Rb and p53 in the osteoblast lineage. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11851-11856.	7.1	246
17	Cortical and trabecular bone microarchitecture as an independent predictor of incident fracture risk in older women and men in the Bone Microarchitecture International Consortium (BoMIC): a prospective study. Lancet Diabetes and Endocrinology,the, 2019, 7, 34-43.	11.4	244
18	Bone quality: where do we go from here?. Osteoporosis International, 2003, 14, 118-127.	3.1	232

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19	Ovariectomy-Induced Bone Loss Varies Among Inbred Strains of Mice. Journal of Bone and Mineral Research, 2005, 20, 1085-1092.	2.8	227
20	Muscle strength as a predictor of bone mineral density in young women. Journal of Bone and Mineral Research, 1990, 5, 589-595.	2.8	226
21	Suppression of Wnt Signaling by Dkk1 Attenuates PTH-Mediated Stromal Cell Response and New Bone Formation. Cell Metabolism, 2010, 11, 161-171.	16.2	203
22	Contribution of the advanced glycation end product pentosidine and of maturation of type I collagen to compressive biomechanical properties of human lumbar vertebrae. Bone, 2006, 39, 1073-1079.	2.9	197
23	Change in Bone Density and Reduction in Fracture Risk: A Meta-Regression of Published Trials. Journal of Bone and Mineral Research, 2019, 34, 632-642.	2.8	197
24	Genetic Regulation of Cortical and Trabecular Bone Strength and Microstructure in Inbred Strains of Mice. Journal of Bone and Mineral Research, 2000, 15, 1126-1131.	2.8	181
25	Guidelines for the assessment of bone density and microarchitecture in vivo using high-resolution peripheral quantitative computed tomography. Osteoporosis International, 2020, 31, 1607-1627.	3.1	181
26	Type 2 diabetes and the skeleton: new insights into sweet bones. Lancet Diabetes and Endocrinology,the, 2016, 4, 159-173.	11.4	179
27	Proximal Femoral Structure and the Prediction of Hip Fracture in Men: A Large Prospective Study Using QCT. Journal of Bone and Mineral Research, 2008, 23, 1326-1333.	2.8	178
28	A soluble activin Type IIA receptor induces bone formation and improves skeletal integrity. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7082-7087.	7.1	176
29	Precision and Discriminatory Ability of Calcaneal Bone Assessment Technologies. Journal of Bone and Mineral Research, 1997, 12, 1303-1313.	2.8	174
30	Structural Determinants of Vertebral Fracture Risk. Journal of Bone and Mineral Research, 2007, 22, 1885-1892.	2.8	174
31	Contribution of In Vivo Structural Measurements and Load/Strength Ratios to the Determination of Forearm Fracture Risk in Postmenopausal Women. Journal of Bone and Mineral Research, 2007, 22, 1442-1448.	2.8	167
32	Contribution of Trochanteric Soft Tissues to Fall Force Estimates, the Factor of Risk, and Prediction of Hip Fracture Risk*. Journal of Bone and Mineral Research, 2007, 22, 825-831.	2.8	165
33	Bone Microarchitecture Is Impaired in Adolescent Amenorrheic Athletes Compared with Eumenorrheic Athletes and Nonathletic Controls. Journal of Clinical Endocrinology and Metabolism, 2011, 96, 3123-3133.	3.6	158
34	Determinants of skeletal fragility. Best Practice and Research in Clinical Rheumatology, 2005, 19, 897-911.	3.3	153
35	Improving Evaluation and Treatment for Osteoporosis Following Distal Radial Fractures. Journal of Bone and Joint Surgery - Series A, 2008, 90, 953-961.	3.0	152
36	Diabetes and Deficits in Cortical Bone Density, Microarchitecture, and Bone Size: Framingham HR-pQCT Study. Journal of Bone and Mineral Research, 2018, 33, 54-62.	2.8	148

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37	Bone geometry and skeletal fragility. Current Osteoporosis Reports, 2006, 4, 49-56.	3.6	142
38	Atypical Femur Fractures: Review of Epidemiology, Relationship to Bisphosphonates, Prevention, and Clinical Management. Endocrine Reviews, 2019, 40, 333-368.	20.1	136
39	Quantifying the material and structural determinants of bone strength. Best Practice and Research in Clinical Rheumatology, 2009, 23, 741-753.	3.3	132
40	Development and Validation of a Musculoskeletal Model of the Fully Articulated Thoracolumbar Spine and Rib Cage. Journal of Biomechanical Engineering, 2015, 137, 081003.	1.3	132
41	HDAC5 Controls MEF2C-Driven Sclerostin Expression in Osteocytes. Journal of Bone and Mineral Research, 2015, 30, 400-411.	2.8	132
42	A Bone Structural Basis for Fracture Risk in Diabetes. Journal of Clinical Endocrinology and Metabolism, 2008, 93, 4804-4809.	3.6	131
43	Prediction of the strength of the elderly proximal femur by bone mineral density and quantitative ultrasound measurements of the heel and tibia. Bone, 1999, 25, 49-54.	2.9	129
44	Age- and Sex-Specific Differences in the Factor of Risk for Vertebral Fracture: A Population-Based Study Using QCT. Journal of Bone and Mineral Research, 2006, 21, 1475-1482.	2.8	129
45	Inhibiting activin-A signaling stimulates bone formation and prevents cancer-induced bone destruction in vivo. Journal of Bone and Mineral Research, 2010, 25, 2633-2646.	2.8	129
46	Sclerostin antibody inhibits skeletal deterioration due to reduced mechanical loading. Journal of Bone and Mineral Research, 2013, 28, 865-874.	2.8	126
47	Bone Loss After Bariatric Surgery: Discordant Results Between DXA and QCT Bone Density. Journal of Bone and Mineral Research, 2014, 29, 542-550.	2.8	126
48	A Review of Rodent Models of Type 2 Diabetic Skeletal Fragility. Journal of Bone and Mineral Research, 2014, 29, 1025-1040.	2.8	126
49	Two-Year Changes in Bone Density After Roux-en-Y Gastric Bypass Surgery. Journal of Clinical Endocrinology and Metabolism, 2015, 100, 1452-1459.	3.6	125
50	SIKs control osteocyte responses to parathyroid hormone. Nature Communications, 2016, 7, 13176.	12.8	124
51	Predicting the failure load of the distal radius. Osteoporosis International, 2003, 14, 345-352.	3.1	122
52	Comparative Effects of Teriparatide, Denosumab, and Combination Therapy on Peripheral Compartmental Bone Density, Microarchitecture, and Estimated Strength: the DATA-HRpQCT Study. Journal of Bone and Mineral Research, 2015, 30, 39-45.	2.8	121
53	Treatment-related changes in bone mineral density as a surrogate biomarker for fracture risk reduction: meta-regression analyses of individual patient data from multiple randomised controlled trials. Lancet Diabetes and Endocrinology,the, 2020, 8, 672-682.	11.4	117
54	Determinants of Bone Microarchitecture and Mechanical Properties in Obese Men. Journal of Clinical Endocrinology and Metabolism, 2012, 97, 4115-4122.	3.6	114

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55	Population-Based Analysis of the Relationship of Whole Bone Strength Indices and Fall-Related Loads to Age- and Sex-Specific Patterns of Hip and Wrist Fractures. Journal of Bone and Mineral Research, 2005, 21, 315-323.	2.8	110
56	Cortical microstructure and estimated bone strength in young amenorrheic athletes, eumenorrheic athletes and non-athletes. Bone, 2012, 51, 680-687.	2.9	110
57	Mechanical contributions of the cortical and trabecular compartments contribute to differences in age-related changes in vertebral body strength in men and women assessed by QCT-based finite element analysis. Journal of Bone and Mineral Research, 2011, 26, 974-983.	2.8	108
58	Variation in Bone Biomechanical Properties, Microstructure, and Density in BXH Recombinant Inbred Mice. Journal of Bone and Mineral Research, 2001, 16, 206-213.	2.8	100
59	Contribution of Trabecular and Cortical Components to Biomechanical Behavior of Human Vertebrae: An Ex Vivo Study. Journal of Bone and Mineral Research, 2010, 25, 356-361.	2.8	100
60	Mapping Quantitative Trait Loci for Vertebral Trabecular Bone Volume Fraction and Microarchitecture in Mice. Journal of Bone and Mineral Research, 2003, 19, 587-599.	2.8	98
61	Multicenter precision of cortical and trabecular bone quality measures assessed by high-resolution peripheral quantitative computed tomography. Journal of Bone and Mineral Research, 2013, 28, 524-536.	2.8	98
62	Bone microarchitecture, biomechanical properties, and advanced glycation end-products in the proximal femur of adults with type 2 diabetes. Bone, 2018, 114, 32-39.	2.9	97
63	Variations of CT-Based Trunk Muscle Attenuation by Age, Sex, and Specific Muscle. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2013, 68, 317-323.	3.6	96
64	Serum IGF-1 Determines Skeletal Strength by Regulating Subperiosteal Expansion and Trait Interactions. Journal of Bone and Mineral Research, 2009, 24, 1481-1492.	2.8	93
65	Serum complexes of insulinâ€like growth factorâ€1 modulate skeletal integrity and carbohydrate metabolism. FASEB Journal, 2009, 23, 709-719.	0.5	90
66	Contributions of parathyroid hormone (PTH)/PTH-related peptide receptor signaling pathways to the anabolic effect of PTH on bone. Bone, 2007, 40, 1453-1461.	2.9	88
67	Partial reductions in mechanical loading yield proportional changes in bone density, bone architecture, and muscle mass. Journal of Bone and Mineral Research, 2013, 28, 875-885.	2.8	87
68	Biomechanics of Vertebral Fractures and the Vertebral Fracture Cascade. Current Osteoporosis Reports, 2010, 8, 198-204.	3.6	86
69	Deletion of Î²-adrenergic receptor 1, 2, or both leads to different bone phenotypes and response to mechanical stimulation. Journal of Bone and Mineral Research, 2012, 27, 1252-1262.	2.8	84
70	The effect of thoracic kyphosis and sagittal plane alignment on vertebral compressive loading. Journal of Bone and Mineral Research, 2012, 27, 2144-2151.	2.8	83
71	Spinal Loading Patterns From Biomechanical Modeling Explain the High Incidence of Vertebral Fractures in the Thoracolumbar Region. Journal of Bone and Mineral Research, 2017, 32, 1282-1290.	2.8	83
72	The Efficacy and Safety of Vertebral Augmentation: A Second ASBMR Task Force Report. Journal of Bone and Mineral Research, 2019, 34, 3-21.	2.8	83

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73	Effect of type 2 diabetes-related non-enzymatic glycation on bone biomechanical properties. Bone, 2016, 82, 21-27.	2.9	82
74	Dnmt3a-mutated clonal hematopoiesis promotes osteoporosis. Journal of Experimental Medicine, 2021, 218, .	8.5	81
75	Role of trabecular microarchitecture and its heterogeneity parameters in the mechanical behavior of ex vivo human L3 vertebrae. Journal of Bone and Mineral Research, 2010, 25, 2324-2331.	2.8	79
76	Microstructural Failure Mechanisms in the Human Proximal Femur for Sideways Fall Loading. Journal of Bone and Mineral Research, 2014, 29, 507-515.	2.8	79
77	Longitudinal 5-Year Evaluation of Bone Density and Microarchitecture After Roux-en-Y Gastric Bypass Surgery. Journal of Clinical Endocrinology and Metabolism, 2018, 103, 4104-4112.	3.6	76
78	Microarchitecture Influences Microdamage Accumulation in Human Vertebral Trabecular Bone. Journal of Bone and Mineral Research, 2008, 23, 1613-1618.	2.8	74
79	Generation of a New Congenic Mouse Strain to Test the Relationships Among Serum Insulin-like Growth Factor I, Bone Mineral Density, and Skeletal Morphology In Vivo. Journal of Bone and Mineral Research, 2002, 17, 570-579.	2.8	73
80	Association Between Insulin Resistance and Bone Structure in Nondiabetic Postmenopausal Women. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 3114-3122.	3.6	73
81	Î²-Arrestin2 Regulates the Differential Response of Cortical and Trabecular Bone to Intermittent PTH in Female Mice. Journal of Bone and Mineral Research, 2004, 20, 635-643.	2.8	71
82	Technical note: Recommendations for a standard procedure to assess cortical bone at the tissue-level in vivo using impact microindentation. Bone Reports, 2016, 5, 181-185.	0.4	70
83	Spaceflight Activates Lipotoxic Pathways in Mouse Liver. PLoS ONE, 2016, 11, e0152877.	2.5	69
84	Comparison of hip fracture risk prediction by femoral aBMD to experimentally measured factor of risk. Bone, 2010, 46, 742-746.	2.9	68
85	Comparison of non-invasive assessments of strength of the proximal femur. Bone, 2017, 105, 93-102.	2.9	68
86	Irisin directly stimulates osteoclastogenesis and bone resorption in vitro and in vivo. ELife, 2020, 9, .	6.0	68
87	Mechanisms of osteoporosis therapy: A bone strength perspective. Clinical Cornerstone, 2003, 5, S13-S21.	0.7	67
88	Technology Insight: noninvasive assessment of bone strength in osteoporosis. Nature Clinical Practice Rheumatology, 2008, 4, 310-318.	3.2	66
89	Oestrogen replacement improves bone mineral density in oligo-amenorrhoeic athletes: a randomised clinical trial. British Journal of Sports Medicine, 2019, 53, 229-236.	6.7	66
90	Differences in skeletal microarchitecture and strength in African-American and white women. Journal of Bone and Mineral Research, 2013, 28, 2177-2185.	2.8	64

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91	Comparison of Skeletal Effects of Ovariectomy Versus Chemically Induced Ovarian Failure in Mice. Journal of Bone and Mineral Research, 2008, 23, 1296-1303.	2.8	63
92	Trabecular and Cortical Microstructure and Fragility of the Distal Radius in Women. Journal of Bone and Mineral Research, 2015, 30, 621-629.	2.8	62
93	Combined treatment with a Î²-blocker and intermittent PTH improves bone mass and microarchitecture in ovariectomized mice. Bone, 2006, 39, 260-267.	2.9	60
94	Theoretical Implications of the Biomechanical Fracture Threshold. Journal of Bone and Mineral Research, 2008, 23, 1541-1547.	2.8	60
95	A biomechanical model for estimating loads on thoracic and lumbar vertebrae. Clinical Biomechanics, 2010, 25, 853-858.	1.2	59
96	Effects of Denosumab and Teriparatide Transitions on Bone Microarchitecture and Estimated Strength: the DATA-Switch HR-pQCT study. Journal of Bone and Mineral Research, 2017, 32, 2001-2009.	2.8	59
97	Visceral Adipose Tissue Is Associated With Bone Microarchitecture in the Framingham Osteoporosis Study. Journal of Bone and Mineral Research, 2017, 32, 143-150.	2.8	59
98	Congenic Strains of Mice for Verification and Genetic Decomposition of Quantitative Trait Loci for Femoral Bone Mineral Density. Journal of Bone and Mineral Research, 2003, 18, 175-185.	2.8	58
99	A Proteasome Inhibitor, Bortezomib, Inhibits Breast Cancer Growth and Reduces Osteolysis by Downregulating Metastatic Genes. Clinical Cancer Research, 2010, 16, 4978-4989.	7.0	58
100	Premenopausal Women with a Distal Radial Fracture Have Deteriorated Trabecular Bone Density and Morphology Compared with Controls without a Fracture. Journal of Bone and Joint Surgery - Series A, 2013, 95, 633-642.	3.0	58
101	Cortical and trabecular load sharing in the human femoral neck. Journal of Biomechanics, 2015, 48, 816-822.	2.1	58
102	Bone mass, microarchitecture and strength are influenced by race/ethnicity in young adult men and women. Bone, 2017, 103, 200-208.	2.9	58
103	Partial weight suspension: a novel murine model for investigating adaptation to reduced musculoskeletal loading. Journal of Applied Physiology, 2010, 109, 350-357.	2.5	57
104	Effects of preexisting microdamage, collagen crossâ€links, degree of mineralization, age, and architecture on compressive mechanical properties of elderly human vertebral trabecular bone. Journal of Orthopaedic Research, 2011, 29, 481-488.	2.3	57
105	Altered thermogenesis and impaired bone remodeling in Misty mice. Journal of Bone and Mineral Research, 2013, 28, 1885-1897.	2.8	57
106	A FAK/HDAC5 signaling axis controls osteocyte mechanotransduction. Nature Communications, 2020, 11, 3282.	12.8	57
107	Specimen size and porosity can introduce error into Î¼CT-based tissue mineral density measurements. Bone, 2009, 44, 176-184.	2.9	56
108	Regressions for estimating muscle parameters in the thoracic and lumbar trunk for use in musculoskeletal modeling. Journal of Biomechanics, 2012, 45, 66-75.	2.1	56

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109	1,25-Dihydroxyvitamin D Alone Improves Skeletal Growth, Microarchitecture, and Strength in a Murine Model of XLH, Despite Enhanced FGF23 Expression. Journal of Bone and Mineral Research, 2016, 31, 929-939.	2.8	56
110	The role of adaptive bone formation in the etiology of stress fracture. Experimental Biology and Medicine, 2017, 242, 897-906.	2.4	56
111	Considerations for Development of Surrogate Endpoints for Antifracture Efficacy of New Treatments in Osteoporosis: A Perspective. Journal of Bone and Mineral Research, 2008, 23, 1155-1167.	2.8	55
112	Trochanteric Soft Tissue Thickness and Hip Fracture in Older Men. Journal of Clinical Endocrinology and Metabolism, 2009, 94, 491-496.	3.6	54
113	Progenitor recruitment and adipogenic lipolysis contribute to the anabolic actions of parathyroid hormone on the skeleton. FASEB Journal, 2019, 33, 2885-2898.	0.5	54
114	Changes in tibial bone microarchitecture in female recruits in response to 8â€¯weeks of U.S. Army Basic Combat Training. Bone, 2018, 113, 9-16.	2.9	53
115	Treatment-Related Changes in Bone Turnover and Fracture Risk Reduction in Clinical Trials of Anti-Resorptive Drugs: A Meta-Regression. Journal of Bone and Mineral Research, 2018, 33, 634-642.	2.8	51
116	QCT measures of bone strength at the thoracic and lumbar spine: The Framingham study. Journal of Bone and Mineral Research, 2012, 27, 654-663.	2.8	50
117	Associations of Computed Tomography-Based Trunk Muscle Size and Density With Balance and Falls in Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2016, 71, 811-816.	3.6	50
118	Fracture Prediction by Computed Tomography and Finite Element Analysis: Current and Future Perspectives. Current Osteoporosis Reports, 2018, 16, 411-422.	3.6	50
119	An in vitro model to test the contribution of advanced glycation end products to bone biomechanical properties. Bone, 2008, 42, 139-149.	2.9	49
120	Low-Magnitude Mechanical Stimulation to Improve Bone Density in Persons of Advanced Age: A Randomized, Placebo-Controlled Trial. Journal of Bone and Mineral Research, 2015, 30, 1319-1328.	2.8	48
121	Cathepsin Kâ€“deficient osteocytes prevent lactation-induced bone loss and parathyroid hormone suppression. Journal of Clinical Investigation, 2019, 129, 3058-3071.	8.2	48
122	Bone stress injuries. Nature Reviews Disease Primers, 2022, 8, 26.	30.5	48
123	Biomechanics of Age-Related Fractures. , 2001, , 509-531.		46
124	A novel partial gravity ground-based analog for rats via quadrupedal unloading. Journal of Applied Physiology, 2018, 125, 175-182.	2.5	44
125	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.	2.8	42
126	A soluble bone morphogenetic protein type IA receptor increases bone mass and bone strength. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12207-12212.	7.1	41

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127	Vertebral Size, Bone Density, and Strength in Men and Women Matched for Age and Areal Spine BMD. Journal of Bone and Mineral Research, 2014, 29, 562-569.	2.8	41
128	Serum FGF-21 levels are associated with worsened radial trabecular bone microarchitecture and decreased radial bone strength in women with anorexia nervosa. Bone, 2015, 77, 6-11.	2.9	41
129	Incorporation of CTâ€based measurements of trunk anatomy into subjectâ€specific musculoskeletal models of the spine influences vertebral loading predictions. Journal of Orthopaedic Research, 2017, 35, 2164-2173.	2.3	41
130	Risk of Stress Fracture Varies by Race/Ethnic Origin in a Cohort Study of 1.3 Million US Army Soldiers. Journal of Bone and Mineral Research, 2017, 32, 1546-1553.	2.8	41
131	Control of osteocyte dendrite formation by Sp7 and its target gene osteocrin. Nature Communications, 2021, 12, 6271.	12.8	41
132	Combined Effects of Botulinum Toxin Injection and Hind Limb Unloading on Bone and Muscle. Calcified Tissue International, 2014, 94, 327-337.	3.1	40
133	Bone Material Strength Index as Measured by Impact Microindentation in Postmenopausal Women With Distal Radius and Hip Fractures. Journal of Bone and Mineral Research, 2018, 33, 621-626.	2.8	40
134	Negative Effects of Long-duration Spaceflight on Paraspinal Muscle Morphology. Spine, 2019, 44, 879-886.	2.0	40
135	In Vivo Targeted Deletion of Calpain Small Subunit, Capn4, in Cells of the Osteoblast Lineage Impairs Cell Proliferation, Differentiation, and Bone Formation. Journal of Biological Chemistry, 2008, 283, 21002-21010.	3.4	38
136	Bone health in subjects with type 1 diabetes for more than 50Âyears. Acta Diabetologica, 2017, 54, 479-488.	2.5	38
137	Infrequent Delivery of a Long-Acting PTH-Fc Fusion Protein Has Potent Anabolic Effects on Cortical and Cancellous Bone. Journal of Bone and Mineral Research, 2007, 22, 1534-1547.	2.8	37
138	Î²-Arrestin2 Regulates RANKL and Ephrins Gene Expression in Response to Bone Remodeling in Mice. Journal of Bone and Mineral Research, 2009, 24, 775-784.	2.8	37
139	Association between collagen cross-links and trabecular microarchitecture properties of human vertebral bone. Bone, 2010, 46, 342-347.	2.9	37
140	Large-Scale Genome-Wide Linkage Analysis for Loci Linked to BMD at Different Skeletal Sites in Extreme Selected Sibships. Journal of Bone and Mineral Research, 2006, 22, 184-194.	2.8	36
141	Harmonizing finite element modelling for non-invasive strength estimation by high-resolution peripheral quantitative computed tomography. Journal of Biomechanics, 2018, 80, 63-71.	2.1	35
142	Differential effects of high fat diet and diet-induced obesity on skeletal acquisition in female C57BL/6J vs. FVB/NJ Mice. Bone Reports, 2018, 8, 204-214.	0.4	34
143	Cortical Bone Material Strength Index and Bone Microarchitecture in Postmenopausal Women With Atypical Femoral Fractures. Journal of Bone and Mineral Research, 2019, 34, 75-82.	2.8	34
144	Effect of follower load on motion and stiffness of the human thoracic spine with intact rib cage. Journal of Biomechanics, 2016, 49, 3252-3259.	2.1	31

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145	The Central Role of Osteocytes in the Four Adaptive Pathways of Boneâ€™s Mechanostat. Exercise and Sport Sciences Reviews, 2020, 48, 140-148.	3.0	31
146	Systems genetics in diversity outbred mice inform BMD GWAS and identify determinants of bone strength. Nature Communications, 2021, 12, 3408.	12.8	31
147	Heritability and Genetic Correlations for Bone Microarchitecture: The Framingham Study Families. Journal of Bone and Mineral Research, 2017, 32, 106-114.	2.8	30
148	A Longitudinal Study of Trunk Muscle Properties and Severity of Thoracic Kyphosis in Women and Men: The Framingham Study. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2019, 74, 420-427.	3.6	30
149	25-Hydroxyvitamin-D and Bone Turnover Marker Levels in Patients with Distal Radial Fracture. Journal of Bone and Joint Surgery - Series A, 2015, 97, 1685-1693.	3.0	29
150	Vertebral Strength and Estimated Fracture Risk Across the BMI Spectrum in Women. Journal of Bone and Mineral Research, 2016, 31, 281-288.	2.8	29
151	Comparison of cyclic and impact-based reference point indentation measurements in human cadaveric tibia. Bone, 2018, 106, 90-95.	2.9	29
152	Determinants of the mechanical behavior of human lumbar vertebrae after simulated mild fracture. Journal of Bone and Mineral Research, 2011, 26, 739-746.	2.8	28
153	Inhibition of osteoclast differentiation and collagen antibody-induced arthritis by CTHRC1. Bone, 2017, 97, 153-167.	2.9	28
154	Elevated HbA1c Is Associated with Altered Cortical and Trabecular Microarchitecture in Girls with Type 1 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2020, 105, e1648-e1656.	3.6	28
155	Bone density and strength from thoracic and lumbar CT scans both predict incident vertebral fractures independently of fracture location. Osteoporosis International, 2021, 32, 261-269.	3.1	28
156	Salt-inducible kinases dictate parathyroid hormone 1 receptor action in bone development and remodeling. Journal of Clinical Investigation, 2019, 129, 5187-5203.	8.2	28
157	Exercise Maintains Bone Mass, but Do People Maintain Exercise?. Journal of Bone and Mineral Research, 2001, 16, 202-205.	2.8	26
158	Growth hormone protects against ovariectomy-induced bone loss in states of low circulating insulin-like growth factor (IGF-1). Journal of Bone and Mineral Research, 2010, 25, 235-246.	2.8	26
159	A longitudinal study of disc height narrowing and facet joint osteoarthritis at the thoracic and lumbar spine, evaluated by computed tomography: the Framingham Study. Spine Journal, 2018, 18, 2065-2073.	1.3	26
160	Correspondence between bone mineral density and intervertebral disc degeneration across age and sex. Archives of Osteoporosis, 2018, 13, 123.	2.4	26
161	Bone outcomes following sleeve gastrectomy in adolescents and young adults with obesity versus non-surgical controls. Bone, 2020, 134, 115290.	2.9	26
162	Lumbar Vertebral Body Bone Microstructural Scaling in Small to Mediumâ€Sized Strepsirhines. Anatomical Record, 2013, 296, 210-226.	1.4	25

#	Article	IF	Citations
163	Nonsteroidal Anti-Inflammatory Drug Prescriptions Are Associated With Increased Stress Fracture Diagnosis in the US Army Population. Journal of Bone and Mineral Research, 2019, 34, 429-436.	2.8	24
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