

X Edward Guo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7566175/publications.pdf>

Version: 2024-02-01

144
papers

8,628
citations

34105

52
h-index

46799

89
g-index

144
all docs

144
docs citations

144
times ranked

8937
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastic modulus and hardness of cortical and trabecular bone lamellae measured by nanoindentation in the human femur. <i>Journal of Biomechanics</i> , 1999, 32, 1005-1012.	2.1	849
2	Engineering anatomically shaped human bone grafts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3299-3304.	7.1	367
3	Advanced Tools for Tissue Engineering: Scaffolds, Bioreactors, and Signaling. <i>Tissue Engineering</i> , 2006, 12, 3285-3305.	4.6	255
4	The dependence of transversely isotropic elasticity of human femoral cortical bone on porosity. <i>Journal of Biomechanics</i> , 2004, 37, 1281-1287.	2.1	243
5	Establishing Biomechanical Mechanisms in Mouse Models: Practical Guidelines for Systematically Evaluating Phenotypic Changes in the Diaphyses of Long Bones. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 951-966.	2.8	232
6	Adiponectin Regulates Bone Mass via Opposite Central and Peripheral Mechanisms through FoxO1. <i>Cell Metabolism</i> , 2013, 17, 901-915.	16.2	198
7	Anatomically shaped osteochondral constructs for articular cartilage repair. <i>Journal of Biomechanics</i> , 2003, 36, 1853-1864.	2.1	195
8	Complete Volumetric Decomposition of Individual Trabecular Plates and Rods and Its Morphological Correlations With Anisotropic Elastic Moduli in Human Trabecular Bone. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 223-235.	2.8	195
9	An Application of Nanoindentation Technique to Measure Bone Tissue Lamellae Properties. <i>Journal of Biomechanical Engineering</i> , 2005, 127, 1046-1053.	1.3	183
10	Primary hyperparathyroidism is associated with abnormal cortical and trabecular microstructure and reduced bone stiffness in postmenopausal women. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 1029-1040.	2.8	174
11	Quantification of the Roles of Trabecular Microarchitecture and Trabecular Type in Determining the Elastic Modulus of Human Trabecular Bone. <i>Journal of Bone and Mineral Research</i> , 2006, 21, 1608-1617.	2.8	172
12	Abdominal Fat Is Associated With Lower Bone Formation and Inferior Bone Quality in Healthy Premenopausal Women: A Transiliac Bone Biopsy Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013, 98, 2562-2572.	3.6	165
13	High-resolution peripheral quantitative computed tomography can assess microstructural and mechanical properties of human distal tibial bone. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 746-756.	2.8	160
14	Abnormal microarchitecture and reduced stiffness at the radius and tibia in postmenopausal women with fractures. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 2572-2581.	2.8	150
15	Bone density, geometry, microstructure, and stiffness: Relationships between peripheral and central skeletal sites assessed by DXA, HR-pQCT, and cQCT in premenopausal women. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 2229-2238.	2.8	145
16	Osteoblast Elastic Modulus Measured by Atomic Force Microscopy Is Substrate Dependent. <i>Annals of Biomedical Engineering</i> , 2005, 33, 963-971.	2.5	138
17	Optimizing the medium perfusion rate in bone tissue engineering bioreactors. <i>Biotechnology and Bioengineering</i> , 2011, 108, 1159-1170.	3.3	129
18	Bariatric Surgery Results in Cortical Bone Loss. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013, 98, 541-549.	3.6	123

#	ARTICLE	IF	CITATIONS
19	Mechanically induced Ca ²⁺ oscillations in osteocytes release extracellular vesicles and enhance bone formation. <i>Bone Research</i> , 2018, 6, 6.	11.4	122
20	Accuracy of high-resolution in vivo micro magnetic resonance imaging for measurements of microstructural and mechanical properties of human distal tibial bone. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 2039-2050.	2.8	115
21	Osteocytic network is more responsive in calcium signaling than osteoblastic network under fluid flow. <i>Journal of Bone and Mineral Research</i> , 2012, 27, 563-574.	2.8	111
22	Individual trabecula segmentation (ITS)-based morphological analyses and microfinite element analysis of HR-pQCT images discriminate postmenopausal fragility fractures independent of DXA measurements. <i>Journal of Bone and Mineral Research</i> , 2012, 27, 263-272.	2.8	111
23	Trabecular Bone Response to Mechanical and Parathyroid Hormone Stimulation: The Role of Mechanical Microenvironment. <i>Journal of Bone and Mineral Research</i> , 2003, 18, 2116-2125.	2.8	107
24	In Vitro Model of Vascularized Bone: Synergizing Vascular Development and Osteogenesis. <i>PLoS ONE</i> , 2011, 6, e28352.	2.5	107
25	Individual trabeculae segmentation (ITS)-based morphological analysis of high-resolution peripheral quantitative computed tomography images detects abnormal trabecular plate and rod microarchitecture in premenopausal women with idiopathic osteoporosis. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 1496-1505.	2.8	94
26	<i>In situ</i> intracellular calcium oscillations in osteocytes in intact mouse long bones under dynamic mechanical loading. <i>FASEB Journal</i> , 2014, 28, 1582-1592.	0.5	93
27	Trabecular plates and rods determine elastic modulus and yield strength of human trabecular bone. <i>Bone</i> , 2015, 72, 71-80.	2.9	92
28	Calcium response in osteocytic networks under steady and oscillatory fluid flow. <i>Bone</i> , 2012, 51, 466-473.	2.9	91
29	Subchondral Trabecular Rod Loss and Plate Thickening in the Development of Osteoarthritis. <i>Journal of Bone and Mineral Research</i> , 2018, 33, 316-327.	2.8	86
30	Mechanotransduction activation of TGF β ² maintains intervertebral disc homeostasis. <i>Bone Research</i> , 2017, 5, 17008.	11.4	83
31	Bone Microarchitecture and Stiffness in Premenopausal Women with Idiopathic Osteoporosis. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2009, 94, 4351-4360.	3.6	82
32	Serotonin-reuptake inhibitors act centrally to cause bone loss in mice by counteracting a local anti-resorptive effect. <i>Nature Medicine</i> , 2016, 22, 1170-1179.	30.7	82
33	Mechanical stress determines the configuration of TGF β ² activation in articular cartilage. <i>Nature Communications</i> , 2021, 12, 1706.	12.8	81
34	Better skeletal microstructure confers greater mechanical advantages in Chinese-American women versus white women. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 1783-1792.	2.8	80
35	Micromechanical analyses of vertebral trabecular bone based on individual trabeculae segmentation of plates and rods. <i>Journal of Biomechanics</i> , 2009, 42, 249-256.	2.1	78
36	Kidney Transplantation with Early Corticosteroid Withdrawal. <i>Journal of the American Society of Nephrology: JASN</i> , 2014, 25, 1331-1341.	6.1	78

#	ARTICLE	IF	CITATIONS
37	Osteocyte Viability and Regulation of Osteoblast Function in a 3D Trabecular Bone Explant Under Dynamic Hydrostatic Pressure. <i>Journal of Bone and Mineral Research</i> , 2004, 19, 1403-1410.	2.8	77
38	In Vivo $\frac{1}{4}$ MRI-Based Finite Element and Morphological Analyses of Tibial Trabecular Bone in Eugonadal and Hypogonadal Men Before and After Testosterone Treatment. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 1426-1434.	2.8	75
39	Geometric control of human stem cell morphology and differentiation. <i>Integrative Biology (United Kingdom)</i> 11, 1072-1081.	1.3	72
40	Individual trabecula segmentation (ITS)-based morphological analysis of microscale images of human tibial trabecular bone at limited spatial resolution. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 2184-2193.	2.8	67
41	Noninvasive Assessment of Skeletal Microstructure and Estimated Bone Strength in Hypoparathyroidism. <i>Journal of Bone and Mineral Research</i> , 2016, 31, 308-316.	2.8	67
42	Influence of vertical trabeculae on the compressive strength of the human vertebra. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 263-269.	2.8	66
43	Skeletal Structure in Postmenopausal Women With Osteopenia and Fractures Is Characterized by Abnormal Trabecular Plates and Cortical Thinning. <i>Journal of Bone and Mineral Research</i> , 2014, 29, 1101-1109.	2.8	65
44	FOXO1 orchestrates the bone-suppressing function of gut-derived serotonin. <i>Journal of Clinical Investigation</i> , 2012, 122, 3490-3503.	8.2	65
45	Vertebral trabecular bone microscopic tissue elastic modulus and hardness do not change in ovariectomized rats. <i>Journal of Orthopaedic Research</i> , 2000, 18, 333-336.	2.3	63
46	Fluid Flow Induced Calcium Response in Bone Cell Network. <i>Cellular and Molecular Bioengineering</i> , 2008, 1, 58-66.	2.1	63
47	Differences in bone microarchitecture between postmenopausal Chinese-American and white women. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 1392-1398.	2.8	63
48	<i>Fusobacterium nucleatum</i> secretes amyloid-like FadA to enhance pathogenicity. <i>EMBO Reports</i> , 2021, 22, e52891.	4.5	61
49	Computational biomechanics of the distal tibia from high-resolution MR and micro-CT images. <i>Bone</i> , 2010, 47, 556-563.	2.9	60
50	Excessive Activation of TGF β 2 by Spinal Instability Causes Vertebral Endplate Sclerosis. <i>Scientific Reports</i> , 2016, 6, 27093.	3.3	59
51	Sustained low-dose dexamethasone delivery via a PLGA microsphere-embedded agarose implant for enhanced osteochondral repair. <i>Acta Biomaterialia</i> , 2020, 102, 326-340.	8.3	57
52	Abnormal Microarchitecture and Stiffness in Postmenopausal Women with Ankle Fractures. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011, 96, 2041-2048.	3.6	56
53	Dependence of mechanical properties of trabecular bone on plate-rod microstructure determined by individual trabecula segmentation (ITS). <i>Journal of Biomechanics</i> , 2014, 47, 702-708.	2.1	56
54	Contributions of trabecular rods of various orientations in determining the elastic properties of human vertebral trabecular bone. <i>Bone</i> , 2009, 45, 158-163.	2.9	55

#	ARTICLE	IF	CITATIONS
55	An ATP-dependent mechanism mediates intercellular calcium signaling in bone cell network under single cell nanoindentation. <i>Cell Calcium</i> , 2010, 47, 234-241.	2.4	55
56	Effects of trabecular type and orientation on microdamage susceptibility in trabecular bone. <i>Bone</i> , 2010, 46, 1260-1266.	2.9	53
57	Bone loss or lost bone: Rationale and recommendations for the diagnosis and treatment of early postmenopausal bone loss. <i>Current Osteoporosis Reports</i> , 2009, 7, 118-126.	3.6	49
58	Abnormalities in Cortical Bone, Trabecular Plates, and Stiffness in Postmenopausal Women Treated With Glucocorticoids. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014, 99, 4231-4240.	3.6	48
59	Teriparatide Increases Strength of the Peripheral Skeleton in Premenopausal Women With Idiopathic Osteoporosis: A Pilot HR-pQCT Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014, 99, 2418-2425.	3.6	47
60	High-resolution peripheral quantitative computed tomography (HR-pQCT) can assess microstructural and biomechanical properties of both human distal radius and tibia: Ex vivo computational and experimental validations. <i>Bone</i> , 2016, 86, 58-67.	2.9	47
61	Microarchitectural Abnormalities Are More Severe in Postmenopausal Women with Vertebral Compared to Nonvertebral Fractures. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012, 97, E1918-E1926.	3.6	46
62	Deterioration of trabecular plate-rod and cortical microarchitecture and reduced bone stiffness at distal radius and tibia in postmenopausal women with vertebral fractures. <i>Bone</i> , 2016, 88, 39-46.	2.9	45
63	Skeletal Microstructure and Estimated Bone Strength Improve Following Parathyroidectomy in Primary Hyperparathyroidism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018, 103, 196-205.	3.6	45
64	Recapitulation of physiological spatiotemporal signals promotes in vitro formation of phenotypically stable human articular cartilage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2556-2561.	7.1	43
65	Abnormal subchondral bone remodeling and its association with articular cartilage degradation in knees of type 2 diabetes patients. <i>Bone Research</i> , 2017, 5, 17034.	11.4	42
66	A Trabecular Bone Explant Model of Osteocyte-Osteoblast Co-Culture for Bone Mechanobiology. <i>Cellular and Molecular Bioengineering</i> , 2009, 2, 405-415.	2.1	40
67	Spatiotemporal properties of intracellular calcium signaling in osteocytic and osteoblastic cell networks under fluid flow. <i>Bone</i> , 2013, 53, 531-540.	2.9	40
68	Implications of noise and resolution on mechanical properties of trabecular bone estimated by image-based finite element analysis. <i>Journal of Orthopaedic Research</i> , 2009, 27, 1263-1271.	2.3	38
69	T-Type voltage-sensitive calcium channels mediate mechanically-induced intracellular calcium oscillations in osteocytes by regulating endoplasmic reticulum calcium dynamics. <i>Bone</i> , 2016, 88, 56-63.	2.9	38
70	Effects of Thresholding Techniques on $\frac{1}{4}$ CT-Based Finite Element Models of Trabecular Bone. <i>Journal of Biomechanical Engineering</i> , 2007, 129, 481-486.	1.3	37
71	Type and orientation of yielded trabeculae during overloading of trabecular bone along orthogonal directions. <i>Journal of Biomechanics</i> , 2010, 43, 2460-2466.	2.1	37
72	Tissue engineered autologous cartilage-bone grafts for temporomandibular joint regeneration. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	37

#	ARTICLE	IF	CITATIONS
73	Premenopausal and postmenopausal differences in bone microstructure and mechanical competence in Chinese-American and white women. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 1308-1318.	2.8	36
74	Dynamic simulation of three dimensional architectural and mechanical alterations in human trabecular bone during menopause. <i>Bone</i> , 2008, 43, 292-301.	2.9	33
75	Intracellular calcium waves in bone cell networks under single cell nanoindentation. <i>MCB Molecular and Cellular Biomechanics</i> , 2006, 3, 95-107.	0.7	33
76	Central QCT Reveals Lower Volumetric BMD and Stiffness in Premenopausal Women with Idiopathic Osteoporosis, Regardless of Fracture History. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012, 97, 4244-4252.	3.6	32
77	Lower Cortical Porosity and Higher Tissue Mineral Density in Chinese American Versus White Women. <i>Journal of Bone and Mineral Research</i> , 2014, 29, 551-561.	2.8	32
78	Analysis of microstructural and mechanical alterations of trabecular bone in a simulated three-dimensional remodeling process. <i>Journal of Biomechanics</i> , 2012, 45, 2417-2425.	2.1	29
79	The MAPK Erk5 is necessary for proper skeletogenesis through a molecular axis that involves Smurfs-Smads-Sox9. <i>Development (Cambridge)</i> , 2018, 145, .	2.5	29
80	Effect of Low Vitamin D on Volumetric Bone Mineral Density, Bone Microarchitecture, and Stiffness in Primary Hyperparathyroidism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 905-913.	3.6	27
81	Fast Trabecular Bone Strength Predictions of HR-pQCT and Individual Trabeculae Segmentation-Based Plate and Rod Finite Element Model Discriminate Postmenopausal Vertebral Fractures. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 1666-1678.	2.8	26
82	Quantification of a rat tail vertebra model for trabecular bone adaptation studies. <i>Journal of Biomechanics</i> , 2002, 35, 363-368.	2.1	25
83	Spreading area and shape regulate apoptosis and differentiation of osteoblasts. <i>Biomedical Materials (Bristol)</i> , 2013, 8, 055005.	3.3	24
84	Intercellular calcium wave propagation in linear and circuit-like bone cell networks. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 617-633.	3.4	23
85	Abnormal Skeletal Strength and Microarchitecture in Women With Celiac Disease. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015, 100, 2347-2353.	3.6	23
86	Quasi-3D Cytoskeletal Dynamics of Osteocytes under Fluid Flow. <i>Biophysical Journal</i> , 2010, 99, 2812-2820.	0.5	22
87	Differences in bone quality and strength between Asian and Caucasian young men. <i>Osteoporosis International</i> , 2017, 28, 549-558.	3.1	22
88	Spatiotemporal characterization of microdamage accumulation in rat ulnae in response to uniaxial compressive fatigue loading. <i>Bone</i> , 2018, 108, 156-164.	2.9	22
89	Robust Trabecular Microstructure in Type 2 Diabetes Revealed by Individual Trabecula Segmentation Analysis of HR-pQCT Images. <i>Journal of Bone and Mineral Research</i> , 2018, 33, 1665-1675.	2.8	22
90	Tissue-Engineered Model of Human Osteolytic Bone Tumor. <i>Tissue Engineering - Part C: Methods</i> , 2017, 23, 98-107.	2.1	21

#	ARTICLE	IF	CITATIONS
91	Toughening mechanisms for the attachment of architected materials: The mechanics of the tendon enthesis. <i>Science Advances</i> , 2021, 7, eabi5584.	10.3	20
92	Trabecular Plate Loss and Deteriorating Elastic Modulus of Femoral Trabecular Bone in Intertrochanteric Hip Fractures. <i>Bone Research</i> , 2013, 1, 346-354.	11.4	19
93	Experimental studies of bone mechanoadaptation: bridging in vitro and in vivo studies with multiscale systems. <i>Interface Focus</i> , 2016, 6, 20150071.	3.0	19
94	Metformin Hydrochloride Encapsulation by Alginate Strontium Hydrogel for Cartilage Regeneration by Reliving Cellular Senescence. <i>Biomacromolecules</i> , 2021, 22, 671-680.	5.4	19
95	Localization and Distribution of Cartilage Oligomeric Matrix Protein in the Rat Intervertebral Disc. <i>Spine</i> , 2006, 31, 1539-1546.	2.0	18
96	Quantification of trabecular bone microdamage using the virtual internal bond model and the individual trabeculae segmentation technique. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2010, 13, 605-615.	1.6	18
97	Osteocyte-viability-based simulations of trabecular bone loss and recovery in disuse and reloading. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014, 13, 153-166.	2.8	17
98	Unique local bone tissue characteristics in iliac crest bone biopsy from adolescent idiopathic scoliosis with severe spinal deformity. <i>Scientific Reports</i> , 2017, 7, 40265.	3.3	17
99	Simultaneous tracking of 3D actin and microtubule strains in individual MLO-Y4 osteocytes under oscillatory flow. <i>Biochemical and Biophysical Research Communications</i> , 2013, 431, 718-723.	2.1	16
100	Bone density, microarchitecture and stiffness in Caucasian and Caribbean Hispanic postmenopausal American women. <i>Bone Research</i> , 2014, 2, 14016.	11.4	16
101	Distinct Tissue Mineral Density in Plate- and Rod-like Trabeculae of Human Trabecular Bone. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 1641-1650.	2.8	16
102	A new fracture assessment approach coupling HR-pQCT imaging and fracture mechanics-based finite element modeling. <i>Journal of Biomechanics</i> , 2013, 46, 1305-1311.	2.1	15
103	A noninvasive approach to determine viscoelastic properties of an individual adherent cell under fluid flow. <i>Journal of Biomechanics</i> , 2014, 47, 1537-1541.	2.1	14
104	Adults with cystic fibrosis have deficits in bone structure and strength at the distal tibia despite similar size and measuring standard and relative sites. <i>Bone</i> , 2018, 107, 181-187.	2.9	14
105	Commonality in the microarchitecture of trabecular bone: A preliminary study. <i>Bone</i> , 2018, 111, 59-70.	2.9	13
106	Mechanosensitive Ca ²⁺ signaling and coordination is diminished in osteocytes of aged mice during ex vivo tibial loading. <i>Connective Tissue Research</i> , 2020, 61, 389-398.	2.3	13
107	Spatiotemporal characterization of microdamage accumulation and its targeted remodeling mechanisms in diabetic fatigued bone. <i>FASEB Journal</i> , 2020, 34, 2579-2594.	0.5	11
108	Electrical stimulation of hindlimb skeletal muscle has beneficial effects on sublesional bone in a rat model of spinal cord injury. <i>Bone</i> , 2021, 144, 115825.	2.9	11

#	ARTICLE	IF	CITATIONS
109	Mechanical loading and parathyroid hormone effects and synergism in bone vary by site and modeling/remodeling regime. <i>Bone</i> , 2021, 153, 116171.	2.9	11
110	Hemodynamic stress shapes subchondral bone in osteoarthritis: An emerging hypothesis. <i>Journal of Orthopaedic Translation</i> , 2022, 32, 85-90.	3.9	10
111	Accuracy of Individual Trabecula Segmentation Based Plate and Rod Finite Element Models in Idealized Trabecular Bone Microstructure. <i>Journal of Biomechanical Engineering</i> , 2013, 135, 044502.	1.3	9
112	Sexual Dimorphism in Cortical and Trabecular Bone Microstructure Appears During Puberty in Chinese Children. <i>Journal of Bone and Mineral Research</i> , 2018, 33, 1948-1955.	2.8	9
113	Three-dimensional rendering of trabecular bone microarchitecture using a probabilistic approach. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 1263-1281.	2.8	9
114	In vivo precision of digital topological skeletonization based individual trabecula segmentation (ITS) analysis of trabecular microstructure at the distal radius and tibia by HR-pQCT. <i>Pattern Recognition Letters</i> , 2016, 76, 83-89.	4.2	8
115	Microstructure Determines Apparent-Level Mechanics Despite Tissue-Level Anisotropy and Heterogeneity of Individual Plates and Rods in Normal Human Trabecular Bone. <i>Journal of Bone and Mineral Research</i> , 2020, 36, 1796-1807.	2.8	8
116	Spine Volumetric BMD and Strength in Premenopausal Idiopathic Osteoporosis: Effect of Teriparatide Followed by Denosumab. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2022, 107, e2690-e2701.	3.6	8
117	Musculoskeletal mechanobiology: A new era for MechanoMedicine. <i>Journal of Orthopaedic Research</i> , 2018, 36, 531-532.	2.3	7
118	Bone measurements at multiple skeletal sites in adolescent idiopathic scoliosis – an in vivo correlation study using DXA, HR-pQCT and QCT. <i>Archives of Osteoporosis</i> , 2019, 14, 70.	2.4	7
119	Theoretical Analysis of Novel Quasi-3D Microscopy of Cell Deformation. <i>Cellular and Molecular Bioengineering</i> , 2012, 5, 165-172.	2.1	6
120	Rapid bone loss occurs as early as 2 days after complete spinal cord transection in young adult rats. <i>Spinal Cord</i> , 2020, 58, 309-317.	1.9	6
121	Abnormal microarchitecture and stiffness in postmenopausal women with isolated osteoporosis at the 1/3 radius. <i>Bone</i> , 2020, 132, 115211.	2.9	6
122	The effect of denosumab and alendronate on trabecular plate and rod microstructure at the distal tibia and radius: A post-hoc HR-pQCT study. <i>Bone</i> , 2022, 154, 116187.	2.9	6
123	Intervention timing of strontium treatment on estrogen depletion-induced osteoporosis in rats: Bone microstructure and mechanics. <i>Journal of Orthopaedic Research</i> , 2014, 32, 477-484.	2.3	5
124	Regional Variations of HR-pQCT Morphological and Biomechanical Measurements of Bone Segments and Their Associations With Whole Distal Radius and Tibia Mechanical Properties. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	1.3	5
125	Accurate and Efficient Plate and Rod Microfinite Element Models for Whole Bone Segments Based on High-Resolution Peripheral Computed Tomography. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	1.3	5
126	Spatiotemporal Distribution of Linear Microcracks and Diffuse Microdamage Following Daily Bouts of Fatigue Loading of Rat Ulnae. <i>Journal of Orthopaedic Research</i> , 2019, 37, 2112-2121.	2.3	5

#	ARTICLE	IF	CITATIONS
127	Chinese Women in Both the United States and Hong Kong Have Cortical Microstructural Advantages and More Trabecular Plates Compared With White Women. <i>JBMR Plus</i> , 2019, 3, e10083.	2.7	5
128	Human Serum Enhances Biomimicry of Engineered Tissue Models of Bone and Cancer. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 658472.	4.1	5
129	Osteocyte mechanosensing following short-term and long-term treatment with sclerostin antibody. <i>Bone</i> , 2021, 149, 115967.	2.9	4
130	Adenylyl cyclase 3 regulates osteocyte mechanotransduction and primary cilium. <i>Biochemical and Biophysical Research Communications</i> , 2021, 573, 145-150.	2.1	4
131	Cellular and Molecular Bioengineering: A Tipping Point. <i>Cellular and Molecular Bioengineering</i> , 2012, 5, 239-253.	2.1	3
132	Administration of High-Dose Methylprednisolone Worsens Bone Loss after Acute Spinal Cord Injury in Rats. <i>Neurotrauma Reports</i> , 2021, 2, 592-602.	1.4	3
133	Tissue Engineered Bone Differentiated From Human Adipose Derived Stem Cells Inhibit Posterolateral Fusion in an Athymic Rat Model. <i>Spine</i> , 2018, 43, 533-541.	2.0	2
134	Dimorphism in axial and appendicular dimensions, cortical and trabecular microstructure and matrix mineral density in Chinese and Caucasian women. <i>Bone</i> , 2019, 128, 115039.	2.9	2
135	Transient neonatal shoulder paralysis causes early osteoarthritis in a mouse model. <i>Journal of Orthopaedic Research</i> , 2022, 40, 1981-1992.	2.3	2
136	Cellular and Molecular Bioengineering: Editorial Perspective. <i>Cellular and Molecular Bioengineering</i> , 2008, 1, 4-4.	2.1	1
137	Calcium Signaling in Bone Cell Networks Induced by Fluid Flow. , 2009, , .		0
138	A Semi-3D Real-Time Imaging Technique for Measuring Bone Cell Deformation Under Fluid Flow. , 2009, , .		0
139	FLUID FLOW INDUCED CALCIUM RESPONSE IN BONE CELL NETWORK. , 2009, , 127-141.		0
140	Bone Structure and Function. , 2020, , 233-246.		0
141	THE ORIGIN OF PRE-STRESS IN BIOLOGICAL TISSUES " A MECHANO-ELECTROCHEMICAL MODEL: A TRIBUTE TO PROFESSOR Y.C. FUNG. , 2009, , 21-29.		0
142	Advanced Structural Assessment of Bone Using CT and MRI. , 2010, , 547-564.		0
143	Mechanical Inputs to Bone Cells. , 2020, , 333-341.		0
144	In Vivo Evaluation of a Tri-Phasic Composite Scaffold for Anterior Cruciate Ligament-to-Bone Integration. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0