

X Edward Guo

List of Publications by Year in descending order

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144
papers

8,628
citations

34105
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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Transient neonatal shoulder paralysis causes early osteoarthritis in a mouse model. <i>Journal of Orthopaedic Research</i> , 2022, 40, 1981-1992.	2.3	2
3	Hemodynamic stress shapes subchondral bone in osteoarthritis: An emerging hypothesis. <i>Journal of Orthopaedic Translation</i> , 2022, 32, 85-90.	3.9	10
4	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
5	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
6	Mechanical stress determines the configuration of TGF β 2 activation in articular cartilage. <i>Nature Communications</i> , 2021, 12, 1706.	12.8	81
7	<i>Fusobacterium nucleatum</i> secretes amyloid-like FadA to enhance pathogenicity. <i>EMBO Reports</i> , 2021, 22, e52891.	4.5	61
8	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
9	Osteocyte mechanosensing following short-term and long-term treatment with sclerostin antibody. <i>Bone</i> , 2021, 149, 115967.	2.9	4
10	Adenylyl cyclase 3 regulates osteocyte mechanotransduction and primary cilium. <i>Biochemical and Biophysical Research Communications</i> , 2021, 573, 145-150.	2.1	4
11	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
12	Metformin Hydrochloride Encapsulation by Alginate Strontium Hydrogel for Cartilage Regeneration by Reliving Cellular Senescence. <i>Biomacromolecules</i> , 2021, 22, 671-680.	5.4	19
13	Toughening mechanisms for the attachment of architected materials: The mechanics of the tendon enthesis. <i>Science Advances</i> , 2021, 7, eabi5584.	10.3	20
14	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
15	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
16	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
17	Abnormal microarchitecture and stiffness in postmenopausal women with isolated osteoporosis at the 1/3 radius. <i>Bone</i> , 2020, 132, 115211.	2.9	6
18	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

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19	Tissue engineered autologous cartilage-bone grafts for temporomandibular joint regeneration. Science Translational Medicine, 2020, 12, .	12.4	37
20	Bone Structure and Function. , 2020, , 233-246.		0
21	Mechanosensitive Ca ²⁺ signaling and coordination is diminished in osteocytes of aged mice during ex vivo tibial loading. Connective Tissue Research, 2020, 61, 389-398.	2.3	13
22	Three-dimensional rendering of trabecular bone microarchitecture using a probabilistic approach. Biomechanics and Modeling in Mechanobiology, 2020, 19, 1263-1281.	2.8	9
23	Microstructure Determines Apparent-Level Mechanics Despite Tissue-Level Anisotropy and Heterogeneity of Individual Plates and Rods in Normal Human Trabecular Bone. Journal of Bone and Mineral Research, 2020, 36, 1796-1807.	2.8	8
24	Mechanical Inputs to Bone Cells. , 2020, , 333-341.		0
25	Regional Variations of HR-pQCT Morphological and Biomechanical Measurements of Bone Segments and Their Associations With Whole Distal Radius and Tibia Mechanical Properties. Journal of Biomechanical Engineering, 2019, 141, .	1.3	5
26	Bone measurements at multiple skeletal sites in adolescent idiopathic scoliosis—an in vivo correlation study using DXA, HR-pQCT and QCT. Archives of Osteoporosis, 2019, 14, 70.	2.4	7
27	Dimorphism in axial and appendicular dimensions, cortical and trabecular microstructure and matrix mineral density in Chinese and Caucasian women. Bone, 2019, 128, 115039.	2.9	2
28	Accurate and Efficient Plate and Rod Microfinite Element Models for Whole Bone Segments Based on High-Resolution Peripheral Computed Tomography. Journal of Biomechanical Engineering, 2019, 141, .	1.3	5
29	Spatiotemporal Distribution of Linear Microcracks and Diffuse Microdamage Following Daily Bouts of Fatigue Loading of Rat Ulnae. Journal of Orthopaedic Research, 2019, 37, 2112-2121.	2.3	5
30	Chinese Women in Both the United States and Hong Kong Have Cortical Microstructural Advantages and More Trabecular Plates Compared With White Women. JBMR Plus, 2019, 3, e10083.	2.7	5
31	Skeletal Microstructure and Estimated Bone Strength Improve Following Parathyroidectomy in Primary Hyperparathyroidism. Journal of Clinical Endocrinology and Metabolism, 2018, 103, 196-205.	3.6	45
32	Musculoskeletal mechanobiology: A new era for MechanoMedicine. Journal of Orthopaedic Research, 2018, 36, 531-532.	2.3	7
33	Mechanically induced Ca ²⁺ oscillations in osteocytes release extracellular vesicles and enhance bone formation. Bone Research, 2018, 6, 6.	11.4	122
34	Spatiotemporal characterization of microdamage accumulation in rat ulnae in response to uniaxial compressive fatigue loading. Bone, 2018, 108, 156-164.	2.9	22
35	Commonality in the microarchitecture of trabecular bone: A preliminary study. Bone, 2018, 111, 59-70.	2.9	13
36	Subchondral Trabecular Rod Loss and Plate Thickening in the Development of Osteoarthritis. Journal of Bone and Mineral Research, 2018, 33, 316-327.	2.8	86

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37	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
38	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
39	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
40	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
41	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
42	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
43	Tissue-Engineered Model of Human Osteolytic Bone Tumor. <i>Tissue Engineering - Part C: Methods</i> , 2017, 23, 98-107.	2.1	21
44	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
45	Mechanotransduction activation of TGF β 2 maintains intervertebral disc homeostasis. <i>Bone Research</i> , 2017, 5, 17008.	11.4	83
46	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
47	Differences in bone quality and strength between Asian and Caucasian young men. <i>Osteoporosis International</i> , 2017, 28, 549-558.	3.1	22
48	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
49	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
50	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
51	Excessive Activation of TGF β 2 by Spinal Instability Causes Vertebral Endplate Sclerosis. <i>Scientific Reports</i> , 2016, 6, 27093.	3.3	59
52	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
53	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
54	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

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55	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
56	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
57	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
58	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
59	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
60	Trabecular plates and rods determine elastic modulus and yield strength of human trabecular bone. <i>Bone</i> , 2015, 72, 71-80.	2.9	92
61	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
62	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
63	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
64	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
65	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
66	Kidney Transplantation with Early Corticosteroid Withdrawal. <i>Journal of the American Society of Nephrology: JASN</i> , 2014, 25, 1331-1341.	6.1	78
67	Dependence of mechanical properties of trabecular bone on plateâ€rod microstructure determined by individual trabecula segmentation (ITS). <i>Journal of Biomechanics</i> , 2014, 47, 702-708.	2.1	56
68	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
69	<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
70	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
71	Bone density, microarchitecture and stiffness in Caucasian and Caribbean Hispanic postmenopausal American women. <i>Bone Research</i> , 2014, 2, 14016.	11.4	16
72	Bariatric Surgery Results in Cortical Bone Loss. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013, 98, 541-549.	3.6	123

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73	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
74	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
75	Adiponectin Regulates Bone Mass via Opposite Central and Peripheral Mechanisms through FoxO1. <i>Cell Metabolism</i> , 2013, 17, 901-915.	16.2	198
76	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
77	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
78	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
79	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
80	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
81	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
82	Spreading area and shape regulate apoptosis and differentiation of osteoblasts. <i>Biomedical Materials (Bristol)</i> , 2013, 8, 055005.	3.3	24
83	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
84	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
85	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
86	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
87	Calcium response in osteocytic networks under steady and oscillatory fluid flow. <i>Bone</i> , 2012, 51, 466-473.	2.9	91
88	Cellular and Molecular Bioengineering: A Tipping Point. <i>Cellular and Molecular Bioengineering</i> , 2012, 5, 239-253.	2.1	3
89	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
90	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

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91	Theoretical Analysis of Novel Quasi-3D Microscopy of Cell Deformation. Cellular and Molecular Bioengineering, 2012, 5, 165-172.	2.1	6
92	FOXO1 orchestrates the bone-suppressing function of gut-derived serotonin. Journal of Clinical Investigation, 2012, 122, 3490-3503.	8.2	65
93	Influence of vertical trabeculae on the compressive strength of the human vertebra. Journal of Bone and Mineral Research, 2011, 26, 263-269.	2.8	66
94	Differences in bone microarchitecture between postmenopausal Chinese-American and white women. Journal of Bone and Mineral Research, 2011, 26, 1392-1398.	2.8	63
95	Better skeletal microstructure confers greater mechanical advantages in Chinese-American women versus white women. Journal of Bone and Mineral Research, 2011, 26, 1783-1792.	2.8	80
96	Individual trabecula segmentation (ITS)-based morphological analysis of microscale images of human tibial trabecular bone at limited spatial resolution. Journal of Bone and Mineral Research, 2011, 26, 2184-2193.	2.8	67
97	Optimizing the medium perfusion rate in bone tissue engineering bioreactors. Biotechnology and Bioengineering, 2011, 108, 1159-1170.	3.3	129
98	Abnormal Microarchitecture and Stiffness in Postmenopausal Women with Ankle Fractures. Journal of Clinical Endocrinology and Metabolism, 2011, 96, 2041-2048.	3.6	56
99	In Vitro Model of Vascularized Bone: Synergizing Vascular Development and Osteogenesis. PLoS ONE, 2011, 6, e28352.	2.5	107
100	High-resolution peripheral quantitative computed tomography can assess microstructural and mechanical properties of human distal tibial bone. Journal of Bone and Mineral Research, 2010, 25, 746-756.	2.8	160
101	An ATP-dependent mechanism mediates intercellular calcium signaling in bone cell network under single cell nanoindentation. Cell Calcium, 2010, 47, 234-241.	2.4	55
102	Bone density, geometry, microstructure, and stiffness: Relationships between peripheral and central skeletal sites assessed by DXA, HR-pQCT, and cQCT in premenopausal women. Journal of Bone and Mineral Research, 2010, 25, 2229-2238.	2.8	145
103	Abnormal microarchitecture and reduced stiffness at the radius and tibia in postmenopausal women with fractures. Journal of Bone and Mineral Research, 2010, 25, 2572-2581.	2.8	150
104	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. Journal of Bone and Mineral Research, 2010, 25, 1496-1505.	2.8	94
105	Accuracy of high-resolution in vivo micro magnetic resonance imaging for measurements of microstructural and mechanical properties of human distal tibial bone. Journal of Bone and Mineral Research, 2010, 25, 2039-2050.	2.8	115
106	Type and orientation of yielded trabeculae during overloading of trabecular bone along orthogonal directions. Journal of Biomechanics, 2010, 43, 2460-2466.	2.1	37
107	Engineering anatomically shaped human bone grafts. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3299-3304.	7.1	367
108	Intercellular calcium wave propagation in linear and circuit-like bone cell networks. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 617-633.	3.4	23

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109	Quasi-3D Cytoskeletal Dynamics of Osteocytes under Fluid Flow. Biophysical Journal, 2010, 99, 2812-2820.	0.5	22
110	Quantification of trabecular bone microdamage using the virtual internal bond model and the individual trabeculae segmentation technique. Computer Methods in Biomechanics and Biomedical Engineering, 2010, 13, 605-615.	1.6	18
111	Effects of trabecular type and orientation on microdamage susceptibility in trabecular bone. Bone, 2010, 46, 1260-1266.	2.9	53
112	Computational biomechanics of the distal tibia from high-resolution MR and micro-CT images. Bone, 2010, 47, 556-563.	2.9	60
113	Geometric control of human stem cell morphology and differentiation. Integrative Biology (United Tj ETQq1 1 0.784314 rgBTj/Overlook	1.3	72
114	Advanced Structural Assessment of Bone Using CT and MRI. , 2010, , 547-564.		0
115	Bone Microarchitecture and Stiffness in Premenopausal Women with Idiopathic Osteoporosis. Journal of Clinical Endocrinology and Metabolism, 2009, 94, 4351-4360.	3.6	82
116	Implications of noise and resolution on mechanical properties of trabecular bone estimated by image-based finite element analysis. Journal of Orthopaedic Research, 2009, 27, 1263-1271.	2.3	38
117	A Trabecular Bone Explant Model of Osteocyte-Osteoblast Co-Culture for Bone Mechanobiology. Cellular and Molecular Bioengineering, 2009, 2, 405-415.	2.1	40
118	Bone loss or lost bone: Rationale and recommendations for the diagnosis and treatment of early postmenopausal bone loss. Current Osteoporosis Reports, 2009, 7, 118-126.	3.6	49
119	Micromechanical analyses of vertebral trabecular bone based on individual trabeculae segmentation of plates and rods. Journal of Biomechanics, 2009, 42, 249-256.	2.1	78
120	Contributions of trabecular rods of various orientations in determining the elastic properties of human vertebral trabecular bone. Bone, 2009, 45, 158-163.	2.9	55
121	Calcium Signaling in Bone Cell Networks Induced by Fluid Flow. , 2009, , .		0
122	A Semi-3D Real-Time Imaging Technique for Measuring Bone Cell Deformation Under Fluid Flow. , 2009, , .		0
123	FLUID FLOW INDUCED CALCIUM RESPONSE IN BONE CELL NETWORK. , 2009, , 127-141.		0
124	THE ORIGIN OF PRE-STRESS IN BIOLOGICAL TISSUES – A MECHANO-ELECTROCHEMICAL MODEL: A TRIBUTE TO PROFESSOR Y.C. FUNG. , 2009, , 21-29.		0
125	Complete Volumetric Decomposition of Individual Trabecular Plates and Rods and Its Morphological Correlations With Anisotropic Elastic Moduli in Human Trabecular Bone. Journal of Bone and Mineral Research, 2008, 23, 223-235.	2.8	195
126	Fluid Flow Induced Calcium Response in Bone Cell Network. Cellular and Molecular Bioengineering, 2008, 1, 58-66.	2.1	63

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127	Cellular and Molecular Bioengineering: Editorial Perspective. Cellular and Molecular Bioengineering, 2008, 1, 4-4.	2.1	1
128	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. Journal of Bone and Mineral Research, 2008, 23, 1426-1434.	2.8	75
129	Dynamic simulation of three dimensional architectural and mechanical alterations in human trabecular bone during menopause. Bone, 2008, 43, 292-301.	2.9	33
130	Effects of Thresholding Techniques on $\frac{1}{4}$ CT-Based Finite Element Models of Trabecular Bone. Journal of Biomechanical Engineering, 2007, 129, 481-486.	1.3	37
131	Advanced Tools for Tissue Engineering: Scaffolds, Bioreactors, and Signaling. Tissue Engineering, 2006, 12, 3285-3305.	4.6	255
132	Localization and Distribution of Cartilage Oligomeric Matrix Protein in the Rat Intervertebral Disc. Spine, 2006, 31, 1539-1546.	2.0	18
133	Quantification of the Roles of Trabecular Microarchitecture and Trabecular Type in Determining the Elastic Modulus of Human Trabecular Bone. Journal of Bone and Mineral Research, 2006, 21, 1608-1617.	2.8	172
134	Intracellular calcium waves in bone cell networks under single cell nanoindentation. MCB Molecular and Cellular Biomechanics, 2006, 3, 95-107.	0.7	33
135	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
136	Osteoblast Elastic Modulus Measured by Atomic Force Microscopy Is Substrate Dependent. Annals of Biomedical Engineering, 2005, 33, 963-971.	2.5	138
137	An Application of Nanoindentation Technique to Measure Bone Tissue Lamellae Properties. Journal of Biomechanical Engineering, 2005, 127, 1046-1053.	1.3	183
138	Osteocyte Viability and Regulation of Osteoblast Function in a 3D Trabecular Bone Explant Under Dynamic Hydrostatic Pressure. Journal of Bone and Mineral Research, 2004, 19, 1403-1410.	2.8	77
139	The dependence of transversely isotropic elasticity of human femoral cortical bone on porosity. Journal of Biomechanics, 2004, 37, 1281-1287.	2.1	243
140	Trabecular Bone Response to Mechanical and Parathyroid Hormone Stimulation: The Role of Mechanical Microenvironment. Journal of Bone and Mineral Research, 2003, 18, 2116-2125.	2.8	107
141	Anatomically shaped osteochondral constructs for articular cartilage repair. Journal of Biomechanics, 2003, 36, 1853-1864.	2.1	195
142	Quantification of a rat tail vertebra model for trabecular bone adaptation studies. Journal of Biomechanics, 2002, 35, 363-368.	2.1	25
143	Vertebral trabecular bone microscopic tissue elastic modulus and hardness do not change in ovariectomized rats. Journal of Orthopaedic Research, 2000, 18, 333-336.	2.3	63
144	Elastic modulus and hardness of cortical and trabecular bone lamellae measured by nanoindentation in the human femur. Journal of Biomechanics, 1999, 32, 1005-1012.	2.1	849