List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A new method to determine trabecular bone elastic properties and loading using micromechanical finite-element models. Journal of Biomechanics, 1995, 28, 69-81.	0.9	769
2	Estimation of distal radius failure load with micro-finite element analysis models based on three-dimensional peripheral quantitative computed tomography images. Bone, 2002, 30, 842-848.	1.4	538
3	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.	3.1	414
4	Stresses in the local collagen network of articular cartilage: a poroviscoelastic fibril-reinforced finite element study. Journal of Biomechanics, 2004, 37, 357-366.	0.9	262
5	A three-dimensional digital image correlation technique for strain measurements in microstructures. Journal of Biomechanics, 2004, 37, 1313-1320.	0.9	253
6	A theoretical framework for strain-related trabecular bone maintenance and adaptation. Journal of Biomechanics, 2005, 38, 931-941.	0.9	250
7	Finite element analysis of trabecular bone structure: a comparison of image-based meshing techniques. Journal of Biomechanics, 1998, 31, 1187-1192.	0.9	246
8	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.	5.5	244
9	Bone remodelling in humans is load-driven but not lazy. Nature Communications, 2014, 5, 4855.	5.8	212
10	Trabecular Bone Tissue Strains in the Healthy and Osteoporotic Human Femur. Journal of Bone and Mineral Research, 2003, 18, 1781-1788.	3.1	197
11	Finite element analysis performed on radius and tibia HR-pQCT images and fragility fractures at all sites in postmenopausal women. Bone, 2010, 46, 1030-1037.	1.4	153
12	Bone micro-architecture and determinants of strength in the radius and tibia: age-related changes in a population-based study of normal adults measured with high-resolution pQCT. Osteoporosis International, 2009, 20, 1683-1694.	1.3	149
13	Load distribution in the healthy and osteoporotic human proximal femur during a fall to the side. Bone, 2008, 42, 30-35.	1.4	145
14	Finite element analysis performed on radius and tibia HR-pQCT images and fragility fractures at all sites in men. Journal of Bone and Mineral Research, 2011, 26, 965-973.	3.1	126
15	COMPUTATIONAL STRATEGIES FOR ITERATIVE SOLUTIONS OF LARGE FEM APPLICATIONS EMPLOYING VOXEL DATA. International Journal for Numerical Methods in Engineering, 1996, 39, 2743-2767.	1.5	117
16	Mechanical behavior of a soft hydrogel reinforced with three-dimensional printed microfibre scaffolds. Scientific Reports, 2018, 8, 1245.	1.6	116
17	Computational finite element bone mechanics accurately predicts mechanical competence in the human radius of an elderly population. Bone, 2011, 48, 1232-1238.	1.4	109
18	Peripheral skeleton bone strength is positively correlated with total and dairy protein intakes in healthy postmenopausal women. American Journal of Clinical Nutrition, 2017, 105, 513-525	2.2	107

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19	Comparison of micro-level and continuum-level voxel models of the proximal femur. Journal of Biomechanics, 2006, 39, 2951-2957.	0.9	96
20	Cortical and Trabecular Bone Microstructure Did Not Recover at Weight-Bearing Skeletal Sites and Progressively Deteriorated at Non-Weight-Bearing Sites During the Year Following International Space Station Missions. Journal of Bone and Mineral Research, 2017, 32, 2010-2021.	3.1	96
21	No effects of in vivo micro-CT radiation on structural parameters and bone marrow cells in proximal tibia of wistar rats detected after eight weekly scans. Journal of Orthopaedic Research, 2007, 25, 1325-1332.	1.2	95
22	Clinical Applications of S53P4 Bioactive Glass in Bone Healing and Osteomyelitic Treatment: A Literature Review. BioMed Research International, 2015, 2015, 1-12.	0.9	95
23	Indirect determination of trabecular bone effective tissue failure properties using micro-finite element simulations. Journal of Biomechanics, 2008, 41, 1479-1485.	0.9	94
24	HRâ€pQCT Measures of Bone Microarchitecture Predict Fracture: Systematic Review and Metaâ€Analysis. Journal of Bone and Mineral Research, 2020, 35, 446-459.	3.1	92
25	Image-Based Micro-Finite-Element Modeling for Improved Distal Radius Strength Diagnosis. Journal of Clinical Densitometry, 2004, 7, 153-160.	0.5	91
26	Image-based goal-oriented adaptive isogeometric analysis with application to the micro-mechanical modeling of trabecular bone. Computer Methods in Applied Mechanics and Engineering, 2015, 284, 138-164.	3.4	89
27	High-resolution MRI and micro-FE for the evaluation of changes in bone mechanical properties during longitudinal clinical trials: application to calcaneal bone in postmenopausal women after one year of idoxifene treatment. Clinical Biomechanics, 2002, 17, 81-88.	0.5	87
28	Evaluation of Radius Microstructure and Areal Bone Mineral Density Improves Fracture Prediction in Postmenopausal Women. Journal of Bone and Mineral Research, 2018, 33, 328-337.	3.1	81
29	Challenges in longitudinal measurements with HR-pQCT: Evaluation of a 3D registration method to improve bone microarchitecture and strength measurement reproducibility. Bone, 2014, 63, 147-157.	1.4	80
30	A survey of micro-finite element analysis for clinical assessment of bone strength: The first decade. Journal of Biomechanics, 2015, 48, 832-841.	0.9	77
31	Mechanical consequences of different scenarios for simulated bone atrophy and recovery in the distal radius. Bone, 2003, 33, 937-945.	1.4	76
32	Bone Degeneration and Recovery after Early and Late Bisphosphonate Treatment of Ovariectomized Wistar Rats Assessed by InÂVivo Micro-Computed Tomography. Calcified Tissue International, 2008, 82, 202-211.	1.5	76
33	Effects of PTH treatment on tibial bone of ovariectomized rats assessed by in vivo micro-CT. Osteoporosis International, 2009, 20, 1823-1835.	1.3	73
34	Bone morphology allows estimation of loading history in a murine model of bone adaptation. Biomechanics and Modeling in Mechanobiology, 2012, 11, 483-492.	1.4	73
35	Fractures during Childhood and Adolescence in Healthy Boys: Relation with Bone Mass, Microstructure, and Strength. Journal of Clinical Endocrinology and Metabolism, 2011, 96, 3134-3142.	1.8	69
36	Micro-finite element simulation of trabecular-bone post-yield behaviour – effects of material model, element size and type. Computer Methods in Biomechanics and Biomedical Engineering, 2008, 11, 389-395.	0.9	68

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37	Flow rates in perfusion bioreactors to maximise mineralisation in bone tissue engineering in vitro. Journal of Biomechanics, 2018, 79, 232-237.	0.9	62
38	Age-related changes in bone strength from HR-pQCT derived microarchitectural parameters with an emphasis on the role of cortical porosity. Bone, 2016, 83, 233-240.	1.4	57
39	FEA to Measure Bone Strength: A Review. Clinical Reviews in Bone and Mineral Metabolism, 2016, 14, 26-37.	1.3	56
40	Assessment of the healing process in distal radius fractures by high resolution peripheral quantitative computed tomography. Bone, 2014, 64, 65-74.	1.4	47
41	Fermented dairy products consumption is associated with attenuated cortical bone loss independently of total calcium, protein, and energy intakes in healthy postmenopausal women. Osteoporosis International, 2018, 29, 1771-1782.	1.3	46
42	Subject-specific bone loading estimation in the human distal radius. Journal of Biomechanics, 2013, 46, 759-766.	0.9	43
43	Fracture history of healthy premenopausal women is associated with a reduction of cortical microstructural components at the distal radius. Bone, 2013, 55, 377-383.	1.4	42
44	A novel approach to estimate trabecular bone anisotropy using a database approach. Journal of Biomechanics, 2013, 46, 2356-2362.	0.9	40
45	Effects of vibration treatment on tibial bone of ovariectomized rats analyzed by in vivo micro T. Journal of Orthopaedic Research, 2010, 28, 62-69.	1.2	38
46	Fast estimation of Colles' fracture load of the distal section of the radius by homogenized finite element analysis based on HR-pQCT. Bone, 2017, 97, 65-75.	1.4	34
47	A multiscale analytical approach for bone remodeling simulations: Linking scales from collagen to trabeculae. Bone, 2014, 64, 303-313.	1.4	33
48	Determination of hip-joint loading patterns of living and extinct mammals using an inverse Wolff's law approach. Biomechanics and Modeling in Mechanobiology, 2015, 14, 427-432.	1.4	33
49	A multiscale computational fluid dynamics approach to simulate the micro-fluidic environment within a tissue engineering scaffold with highly irregular pore geometry. Biomechanics and Modeling in Mechanobiology, 2019, 18, 1965-1977.	1.4	33
50	A new approach to determine the accuracy of morphology–elasticity relationships in continuum FE analyses of human proximal femur. Journal of Biomechanics, 2012, 45, 2884-2892.	0.9	32
51	Comparison of patient-specific computational models vs. clinical follow-up, for adjacent segment disc degeneration and bone remodelling after spinal fusion. PLoS ONE, 2018, 13, e0200899.	1.1	32
52	Fracture Repair in the Distal Radius in Postmenopausal Women: A Follow-Up 2 Years Postfracture Using HRpQCT. Journal of Bone and Mineral Research, 2016, 31, 1114-1122.	3.1	31
53	Technical Note: Cortical thickness and density estimation from clinical CT using a prior thicknessâ€density relationship. Medical Physics, 2016, 43, 1945-1954.	1.6	31
54	A computational spinal motion segment model incorporating a matrix composition-based model of the intervertebral disc. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 54, 194-204.	1.5	30

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55	Validation of a bone loading estimation algorithm for patient-specific bone remodelling simulations. Journal of Biomechanics, 2013, 46, 941-948.	0.9	29
56	Least-detectable and age-related local in vivo bone remodelling assessed by time-lapse HR-pQCT. PLoS ONE, 2018, 13, e0191369.	1.1	28
57	Patient-specific bone modelling and remodelling simulation of hypoparathyroidism based on human iliac crest biopsies. Journal of Biomechanics, 2012, 45, 2411-2416.	0.9	27
58	Validation of distal radius failure load predictions by homogenized- and micro-finite element analyses based on second-generation high-resolution peripheral quantitative CT images. Osteoporosis International, 2019, 30, 1433-1443.	1.3	27
59	Analysis of bone architecture sensitivity for changes in mechanical loading, cellular activity, mechanotransduction, and tissue properties. Biomechanics and Modeling in Mechanobiology, 2011, 10, 701-712.	1.4	25
60	Bone metastasis treatment using magnetic resonance-guided high intensity focused ultrasound. Bone, 2015, 81, 513-523.	1.4	25
61	Assessment of Cortical Interruptions in the Finger Joints of Patients With Rheumatoid Arthritis Using HR-pQCT, Radiography, and MRI. Journal of Bone and Mineral Research, 2018, 33, 1676-1685.	3.1	25
62	Early Changes in Bone Density, Microarchitecture, Bone Resorption, and Inflammation Predict the Clinical Outcome 12 Weeks After Conservatively Treated Distal Radius Fractures: An Exploratory Study. Journal of Bone and Mineral Research, 2014, 29, 2065-2073.	3.1	23
63	A novel approach to estimate trabecular bone anisotropy from stress tensors. Biomechanics and Modeling in Mechanobiology, 2015, 14, 39-48.	1.4	23
64	Vascular channels in metacarpophalangeal joints: a comparative histologic and high-resolution imaging study. Scientific Reports, 2017, 7, 8966.	1.6	23
65	Consensus approach for 3D joint space width of metacarpophalangeal joints of rheumatoid arthritis patients using high-resolution peripheral quantitative computed tomography. Quantitative Imaging in Medicine and Surgery, 2020, 10, 314-325.	1.1	23
66	A sclerostin-based theory for strain-induced bone formation. Biomechanics and Modeling in Mechanobiology, 2011, 10, 663-670.	1.4	22
67	Noise Exposure in TKA Surgery; Oscillating Tip Saw Systems vs Oscillating Blade Saw Systems. Journal of Arthroplasty, 2016, 31, 2773-2777.	1.5	22
68	Trabecular bone of precocials at birth; Are they prepared to run for the wolf(f)?. Journal of Morphology, 2016, 277, 948-956.	0.6	22
69	Voxel size dependency, reproducibility and sensitivity of an <i>in vivo</i> bone loading estimation algorithm. Journal of the Royal Society Interface, 2016, 13, 20150991.	1.5	22
70	Changes in scaffold porosity during bone tissue engineering in perfusion bioreactors considerably affect cellular mechanical stimulation for mineralization. Bone Reports, 2020, 12, 100265.	0.2	22
71	Bone stiffness and failure load are related with clinical parameters in men with chronic obstructive pulmonary disease. Journal of Bone and Mineral Research, 2013, 28, 2186-2193.	3.1	21
72	Inter-individual variability of bone density and morphology distribution in the proximal femur and T12 vertebra. Bone, 2014, 60, 213-220.	1.4	21

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73	Prospective Follow-Up of Cortical Interruptions, Bone Density, and Micro-structure Detected on HR-pQCT: A Study in Patients with Rheumatoid Arthritis and Healthy Subjects. Calcified Tissue International, 2019, 104, 571-581.	1.5	20
74	Large-scale microstructural simulation of load-adaptive bone remodeling in whole human vertebrae. Biomechanics and Modeling in Mechanobiology, 2016, 15, 83-95.	1.4	19
75	Statistical estimation of femur micro-architecture using optimal shape and density predictors. Journal of Biomechanics, 2015, 48, 598-603.	0.9	18
76	An automated algorithm for the detection of cortical interruptions and its underlying loss of trabecular bone; a reproducibility study. BMC Medical Imaging, 2018, 18, 13.	1.4	18
77	Locally measured microstructural parameters are better associated with vertebral strength than whole bone density. Osteoporosis International, 2014, 25, 1285-1296.	1.3	17
78	Fluid flowâ€induced cell stimulation in bone tissue engineering changes due to interstitial tissue formation in vitro. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3342.	1.0	17
79	The Effectiveness of Percutaneous Vertebroplasty Is Determined by the Patient-Specific Bone Condition and the Treatment Strategy. PLoS ONE, 2016, 11, e0151680.	1.1	16
80	Distal radius plate of CFR-PEEK has minimal effect compared to titanium plates on bone parameters in high-resolution peripheral quantitative computed tomography: a pilot study. BMC Medical Imaging, 2017, 17, 18.	1.4	16
81	An automated algorithm for the detection of cortical interruptions on high resolution peripheral quantitative computed tomography images of finger joints. PLoS ONE, 2017, 12, e0175829.	1.1	16
82	Reference data and calculators for second-generation HR-pQCT measures of the radius and tibia at anatomically standardized regions in White adults. Osteoporosis International, 2022, 33, 791-806.	1.3	16
83	Effect of a Cast on Short-Term Reproducibility and Bone Parameters Obtained from HR-pQCT Measurements at the Distal End of the Radius. Journal of Bone and Joint Surgery - Series A, 2016, 98, 356-362.	1.4	15
84	Patient-Specific Biomechanical Modeling of Bone Strength Using Statistically-Derived Fabric Tensors. Annals of Biomedical Engineering, 2016, 44, 234-246.	1.3	15
85	Porous Geometry Guided Micro-mechanical Environment Within Scaffolds for Cell Mechanobiology Study in Bone Tissue Engineering. Frontiers in Bioengineering and Biotechnology, 2021, 9, 736489.	2.0	15
86	Effects of magnetic resonance-guided high-intensity focused ultrasound ablation on bone mechanical properties and modeling. Journal of Therapeutic Ultrasound, 2015, 3, 13.	2.2	14
87	Visual detection of cortical breaks in hand joints: reliability and validity of high-resolution peripheral quantitative CT compared to microCT. BMC Musculoskeletal Disorders, 2016, 17, 271.	0.8	14
88	Misaligned spinal rods can induce high internal forces consistent with those observed to cause screw pullout and disc degeneration. Spine Journal, 2021, 21, 528-537.	0.6	14
89	Feasibility of rigid 3D image registration of high-resolution peripheral quantitative computed tomography images of healing distal radius fractures. PLoS ONE, 2017, 12, e0179413.	1.1	14
90	The Reliability of a Semi-automated Algorithm for Detection of Cortical Interruptions in Finger Joints on High Resolution CT Compared to MicroCT. Calcified Tissue International, 2017, 101, 132-140.	1.5	12

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91	Reliability of HR-pQCTÂDerived Cortical Bone Structural Parameters When Using Uncorrected Instead of Corrected Automatically Generated Endocortical Contours in a Cross-Sectional Study: The Maastricht Study. Calcified Tissue International, 2018, 103, 252-265.	1.5	12
92	Bone Phenotyping Approaches in Human, Mice and Zebrafish – Expert Overview of the EU Cost Action GEMSTONE ("GEnomics of MusculoSkeletal traits TranslatiOnal NEtworkâ€). Frontiers in Endocrinology, 2021, 12, 720728.	1.5	12
93	Mechanical behaviour of Bioactive Glass granules and morselized cancellous bone allograft in load bearing defects. Journal of Biomechanics, 2016, 49, 1121-1127.	0.9	11
94	Composition dependent mechanical behaviour of S53P4 bioactive glass putty for bone defect grafting. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 69, 301-306.	1.5	11
95	Fracture Prospectively Recorded From Prepuberty to Young Adulthood: Are They Markers of Peak Bone Mass and Strength in Males?. Journal of Bone and Mineral Research, 2017, 32, 1963-1969.	3.1	11
96	Resorption of the calcium phosphate layer on S53P4 bioactive glass by osteoclasts. Journal of Materials Science: Materials in Medicine, 2019, 30, 94.	1.7	11
97	The Effect of Bolus Vitamin D3 Supplementation on Distal Radius Fracture Healing: A Randomized Controlled Trial Using HR-pQCT. Journal of Bone and Mineral Research, 2020, 36, 1492-1501.	3.1	11
98	Early bone ingrowth and segmental stability of a trussed titanium cage versus a polyether ether ketone cage in an ovine lumbar interbody fusion model. Spine Journal, 2022, 22, 174-182.	0.6	11
99	Improved Detection of Scaphoid Fractures with High-Resolution Peripheral Quantitative CT Compared with Conventional CT. Journal of Bone and Joint Surgery - Series A, 2020, 102, 2138-2145.	1.4	11
100	A potential mechanism for allometric trabecular bone scaling in terrestrial mammals. Journal of Anatomy, 2015, 226, 236-243.	0.9	10
101	Micro-Finite Element analysis will overestimate the compressive stiffness of fractured cancellous bone. Journal of Biomechanics, 2016, 49, 2613-2618.	0.9	10
102	The interobserver reliability of the diagnosis and classification of scaphoid fractures using high-resolution peripheral quantitative CT. Bone and Joint Journal, 2020, 102-B, 478-484.	1.9	10
103	Prepubertal Impact of Protein Intake and Physical Activity on Weight Bearing Peak Bone Mass and Strength in Males. Journal of Clinical Endocrinology and Metabolism, 2017, 102, jc.2016-2449.	1.8	9
104	The association between prevalent vertebral fractures and bone quality of the distal radius and distal tibia as measured with HR-pQCT in postmenopausal women with a recent non-vertebral fracture at the Fracture Liaison Service. Osteoporosis International, 2019, 30, 1789-1797.	1.3	9
105	Long-term functional outcome of distal radius fractures is associated with early post-fracture bone stiffness of the fracture region: An HR-pQCT exploratory study. Bone, 2019, 127, 510-516.	1.4	9
106	Associations between age-related changes in bone microstructure and strength and dietary acid load in a cohort of community-dwelling, healthy men and postmenopausal women. American Journal of Clinical Nutrition, 2020, 112, 1120-1131.	2.2	9
107	Assessment of the healing of conservatively-treated scaphoid fractures using HR-pQCT. Bone, 2021, 153, 116161.	1.4	9
108	Moderately degenerated lumbar motion segments: Are they truly unstable?. Biomechanics and Modeling in Mechanobiology, 2017, 16, 537-547.	1.4	8

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109	Structural damage and inflammation on radiographs or magnetic resonance imaging are associated with cortical interruptions on high-resolution peripheral quantitative computed tomography: a study in finger joints of patients with rheumatoid arthritis and healthy subjects. Scandinavian Journal of Rheumatology, 2018, 47, 431-439.	0.6	8
110	Radiopaque UHMWPE sublaminar cables for spinal deformity correction: Preclinical mechanical and radiopacifier leaching assessment. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 771-779.	1.6	8
111	Finite element model of load adaptive remodelling induced by orthodontic forces. Medical Engineering and Physics, 2018, 62, 63-68.	0.8	8
112	Development of a scoring method to visually score cortical interruptions on high-resolution peripheral quantitative computed tomography in rheumatoid arthritis and healthy controls. PLoS ONE, 2018, 13, e0200331.	1.1	8
113	The Feasibility of High-Resolution Peripheral Quantitative Computed Tomography (HR-pQCT) in Patients with Suspected Scaphoid Fractures. Journal of Clinical Densitometry, 2020, 23, 432-442.	0.5	8
114	Trabecular and subchondral bone development of the talus and distal tibia from foal to adult in the warmblood horse. Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia, 2018, 47, 206-215.	0.3	7
115	The turnover of mineralized growth plate cartilage into bone may be regulated by osteocytes. Journal of Biomechanics, 2011, 44, 1765-1770.	0.9	6
116	An Analytical Approach to Investigate the Evolution of Bone Volume Fraction in Bone Remodeling Simulation at the Tissue and Cell Level. Journal of Biomechanical Engineering, 2014, 136, 031004.	0.6	6
117	Occupation-dependent loading increases bone strength in men. Osteoporosis International, 2016, 27, 1169-1179.	1.3	6
118	Bone Microarchitecture and Distal Radius Fracture Pattern Complexity. Journal of Orthopaedic Research, 2019, 37, 1690-1697.	1.2	6
119	Accuracy of beam theory for estimating bone tissue modulus and yield stress from 3-point bending tests on rat femora. Journal of Biomechanics, 2020, 101, 109654.	0.9	6
120	Validation of a finite element model of the thoracolumbar spine to study instrumentation level variations in early onset scoliosis correction. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 117, 104360.	1.5	6
121	Effect of Denosumab Compared With Risedronate on Bone Strength in Patients Initiating or Continuing Glucocorticoid Treatment. Journal of Bone and Mineral Research, 2020, 37, 1136-1146.	3.1	6
122	Contra-lateral bone loss at the distal radius in postmenopausal women after a distal radius fracture: A two-year follow-up HRpQCT study. Bone, 2017, 101, 245-251.	1.4	5
123	Effects of longâ€ŧerm use of the preferential COXâ€2 inhibitor meloxicam on growing pigs. Veterinary Record, 2017, 181, 564-564.	0.2	5
124	Quantifying joint stiffness in clubfoot patients. Clinical Biomechanics, 2018, 60, 185-190.	0.5	5
125	Impairment of Cyclo-oxygenase-2 Function Results in Abnormal Growth Plate Development and Bone Microarchitecture but Does Not Affect Longitudinal Growth of the Long Bones in Skeletally Immature Mice. Cartilage, 2019, 12, 194760351983314.	1.4	5
126	Association of secondary displacement of distal radius fractures with cortical bone quality at the distal radius. Archives of Orthopaedic and Trauma Surgery, 2021, 141, 1909-1918.	1.3	5

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127	A Novel HR-pQCT Image Registration Approach Reveals Sex-Specific Changes in Cortical Bone Retraction With Aging. Journal of Bone and Mineral Research, 2020, 36, 1351-1363.	3.1	5
128	Subsidence after total lumbar disc replacement is predictable and related to clinical outcome. European Spine Journal, 2020, 29, 1544-1552.	1.0	5
129	A new semi-orthotopic bone defect model for cell and biomaterial testing in regenerative medicine. Biomaterials, 2021, 279, 121187.	5.7	5
130	Malalignment of the total ankle replacement increases peak contact stresses on the bone-implant interface: a finite element analysis. BMC Musculoskeletal Disorders, 2022, 23, 463.	0.8	5
131	Associations between bone attenuation and prevalent vertebral fractures on chest CT scans differ with vertebral fracture locations. Osteoporosis International, 2021, 32, 1869-1877.	1.3	4
132	Association between bone shape and the presence of a fracture in patients with a clinically suspected scaphoid fracture. Journal of Biomechanics, 2021, 128, 110726.	0.9	4
133	Peptide Enhanced Bone Graft Substitute Presents Improved Short-Term Increase in Bone Volume and Construct Stiffness Compared to Iliac Crest Autologous Bone in an Ovine Lumbar Interbody Fusion Model. Global Spine Journal, 2022, 12, 1330-1337.	1.2	3
134	Patient-Specific Variations in Local Strain Patterns on the Surface of a Trussed Titanium Interbody Cage. Frontiers in Bioengineering and Biotechnology, 2021, 9, 750246.	2.0	3
135	The Implantation of Bioactive Glass Granules Can Contribute the Load-Bearing Capacity of Bones Weakened by Large Cortical Defects. Materials, 2019, 12, 3481.	1.3	2
136	AB0747â€Assessment of cortical discontinuities in interphalangeal joints with hrpqct in comparison with radiography and microct imaging Annals of the Rheumatic Diseases, 2013, 72, A1017.2-A1017.	0.5	1
137	A Case Report of Abnormal Fracture Healing as Detected With High-Resolution Peripheral Quantitative Computed Tomography. Journal of Clinical Densitometry, 2017, 20, 486-489.	0.5	1
138	Evaluation of impaired growth plate development of long bones in skeletally immature mice by antirheumatic agents. Journal of Orthopaedic Research, 2021, 39, 553-564.	1.2	1
139	Ultra–high-molecular-weight polyethylene sublaminar tape as semirigid fixation or pedicle screw augmentation to prevent failure in long-segment spine surgery: an ex vivo biomechanical study. Journal of Neurosurgery: Spine, 2021, 34, 236-244.	0.9	1
140	What Is the Diagnostic Performance of Conventional Radiographs and Clinical Reassessment Compared With HR-pQCT Scaphoid Fracture Diagnosis?. Clinical Orthopaedics and Related Research, 2022, Publish Ahead of Print, .	0.7	1
141	SAT0512â€Fracture Healing of Distal Radius Fractures Assessed by High-Resolution Peripheral Quantitative Computed Tomography, Bone Strength Analysis and Biomarkers. Annals of the Rheumatic Diseases, 2013, 72, A755.1-A755.	0.5	0
142	Microarchitecture of Heterotopic Ossification in Fibrodysplasia Ossificans Progressiva: An HR-pQCT Case Series. Frontiers in Cell and Developmental Biology, 2021, 9, 627784.	1.8	0
143	Radiation Transport Model for Bone Marrow Dosimetry using GATE. Nuklearmedizin - NuclearMedicine, 2019, 58, .	0.3	0