List of Publications by Year in descending order

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		34493	27587
227	13,733	54	110
papers	citations	h-index	g-index
247	247	247	12426
247	247	247	13436
all docs	docs citations	times ranked	citing authors

STEVEN ROVD

#	Article	IF	CITATIONS
1	Pre-flight exercise and bone metabolism predict unloading-induced bone loss due to spaceflight. British Journal of Sports Medicine, 2022, 56, 196-203.	3.1	37
2	Bone density, microarchitecture and strength in elite figure skaters is discipline dependent. Journal of Science and Medicine in Sport, 2022, 25, 173-177.	0.6	7
3	Bone microarchitecture and estimated failure load are deteriorated whether patients with chronic kidney disease have normal bone mineral density, osteopenia or osteoporosis. Bone, 2022, 154, 116260.	1.4	6
4	Independent changes in bone mineralized and marrow soft tissues following acute knee injury require dual-energy or high-resolution computed tomography for accurate assessment of bone mineral density and stiffness. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 127, 105091.	1.5	3
5	Diagnostic accuracy of a dual-energy computed tomography-based post-processing method for imaging bone marrow edema following an acute ligamentous knee injury. Skeletal Radiology, 2022, 51, 1817-1827.	1.2	1
6	Response to Highâ€Đose Vitamin D Supplementation Is Specific to Imaging Modality and Skeletal Site. JBMR Plus, 2022, 6, e10615.	1.3	1
7	Incomplete recovery of bone strength and trabecular microarchitecture at the distal tibia 1Âyear after return from long duration spaceflight. Scientific Reports, 2022, 12, .	1.6	14
8	Contrast-enhanced x-ray microscopy of articular cartilage. Connective Tissue Research, 2021, 62, 542-553.	1.1	1
9	Parity, Breastfeeding, and Osteoporosis—Authors' Response. Calcified Tissue International, 2021, 108, 279-280.	1.5	1
10	Bone changes in early inflammatory arthritis assessed with High-Resolution peripheral Quantitative Computed Tomography (HR-pQCT): A 12-month cohort study. Joint Bone Spine, 2021, 88, 105065.	0.8	13
11	Heterogeneity in microstructural deterioration following spinal cord injury. Bone, 2021, 142, 115778.	1.4	10
12	A new approach for quantifying localized bone loss by measuring void spaces. Bone, 2021, 143, 115785.	1.4	9
13	Restoration of Stiffness During Fracture Healing at the Distal Radius, Using HR-pQCT and Finite Element Methods. Journal of Clinical Densitometry, 2021, 24, 422-432.	0.5	5
14	Bone and joint enhancement filtering: Application to proximal femur segmentation from uncalibrated computed tomography datasets. Medical Image Analysis, 2021, 67, 101887.	7.0	5
15	Neuroprosthetic baroreflex controls haemodynamics after spinal cord injury. Nature, 2021, 590, 308-314.	13.7	96
16	Using 3D image registration to maximize the reproducibility of longitudinal bone strength assessment by HR-pQCT and finite element analysis. Osteoporosis International, 2021, 32, 1849-1857.	1.3	5
17	Structural Consequences of a Partial Anterior Cruciate Ligament Injury on Remaining Joint Integrity: Evidence for Ligament and Bone Changes Over Time in an Ovine Model. American Journal of Sports Medicine, 2021, 49, 637-648.	1.9	6
18	Opportunistic CT screening predicts individuals at risk of major osteoporotic fracture. Osteoporosis International, 2021, 32, 1639-1649.	1.3	15

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19	A quantitative assessment of dual energy computed tomographyâ€based material decomposition for imaging bone marrow edema associated with acute knee injury. Medical Physics, 2021, 48, 1792-1803.	1.6	7
20	Heterogenous bone response to biologic DMARD therapies in rheumatoid arthritis patients and their relationship to functional indices. Scandinavian Journal of Rheumatology, 2021, 50, 417-426.	0.6	2
21	Higher Hand Grip Strength Is Associated With Greater Radius Bone Size and Strength in Older Men and Women: The Framingham Osteoporosis Study. JBMR Plus, 2021, 5, e10485.	1.3	7
22	Maintained Bone Density in Young Hypoestrogenized Women with a High BMI: Case Series. Calcified Tissue International, 2021, 109, 469-473.	1.5	0
23	Proximal Tibia Bone Stiffness and Strength in HR-pQCT- and QCT-Based Finite Element Models. Annals of Biomedical Engineering, 2021, 49, 2389-2398.	1.3	5
24	Improvements in radiographic and clinical assessment of distal radius fracture healing by FE-estimated bone stiffness. Bone Reports, 2021, 14, 100748.	0.2	5
25	Changements osseux évalués par tomodensitométrie quantitative périphérique haute résolution (HR-pQCT) dans l'arthrite inflammatoire précoceÂ: étude longitudinale sur 12Âmois. Revue Du Rhumatisme (Edition Francaise), 2021, 88, 450-450.	0.0	0
26	Bone Microarchitecture Decline and Risk of Fall and Fracture in Men With Poor Physical Performance—The STRAMBO Study. Journal of Clinical Endocrinology and Metabolism, 2021, 106, e5180-e5194.	1.8	5
27	The Assessment of Skeletal Muscle and Cortical Bone by Second-generation HR-pQCT at the Tibial Midshaft. Journal of Clinical Densitometry, 2021, 24, 465-473.	0.5	4
28	An inverse technique to identify participantâ€specific bone adaptation from serial <scp>CT</scp> measurements. International Journal for Numerical Methods in Biomedical Engineering, 2021, 37, e3515.	1.0	1
29	Validation of Bone Density and Microarchitecture Measurements of the Load-Bearing Femur in the Human Knee Obtained Using In Vivo HR-pQCT Protocol. Journal of Clinical Densitometry, 2021, 24, 651-657.	0.5	10
30	Postpubertal Architectural Developmental Patterns Differ Between the L3 Vertebra and Proximal Tibia in Three Inbred Strains of Mice. Journal of Bone and Mineral Research, 2020, 23, 2048-2059.	3.1	98
31	Microimaging. , 2020, , 1833-1856.		1
32	Robust Self-Supervised Learning of Deterministic Errors in Single-Plane (Monoplanar) and Dual-Plane (Biplanar) X-Ray Fluoroscopy. IEEE Transactions on Medical Imaging, 2020, 39, 2051-2060.	5.4	2
33	Safety of High-Dose Vitamin D Supplementation: Secondary Analysis of a Randomized Controlled Trial. Journal of Clinical Endocrinology and Metabolism, 2020, 105, 1261-1273.	1.8	43
34	High-Dose Vitamin D Supplementation and Bone Health—Reply. JAMA - Journal of the American Medical Association, 2020, 323, 93.	3.8	1
35	Associations Between Breastfeeding History and Early Postmenopausal Bone Loss. Calcified Tissue International, 2020, 106, 264-273.	1.5	3
36	Optimizing HR-pQCT workflow: a comparison of bias and precision error for quantitative bone analysis. Osteoporosis International, 2020, 31, 567-576.	1.3	18

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37	Adverse Effects of Highâ€Dose Vitamin <scp>D</scp> Supplementation on Volumetric Bone Density Are Greater in Females than Males. Journal of Bone and Mineral Research, 2020, 35, 2404-2414.	3.1	25
38	Differences in fracture prevalence and in bone mineral density between Chinese and White Canadians: the Canadian Multicentre Osteoporosis Study (CaMos). Archives of Osteoporosis, 2020, 15, 147.	1.0	19
39	Spectrum of microarchitectural bone disease in inborn errors of metabolism: a cross-sectional, observational study. Orphanet Journal of Rare Diseases, 2020, 15, 251.	1.2	5
40	Longitudinal bone microarchitectural changes are best detected using image registration. Osteoporosis International, 2020, 31, 1995-2005.	1.3	20
41	Guidelines for the assessment of bone density and microarchitecture in vivo using high-resolution peripheral quantitative computed tomography. Osteoporosis International, 2020, 31, 1607-1627.	1.3	181
42	Sex―and <scp>Siteâ€Specific</scp> Reference Data for Bone Microarchitecture in Adults Measured Using <scp>Secondâ€Generation HRâ€pQCT</scp> . Journal of Bone and Mineral Research, 2020, 35, 2151-2158.	3.1	38
43	Effect of high-dose vitamin D supplementation on peripheral arterial calcification: secondary analysis of a randomized controlled trial. Osteoporosis International, 2020, 31, 2141-2150.	1.3	3
44	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
45	Impact on bone microarchitecture and failure load in a patient with type I Gaucher disease who switched from Imiglucerase to Eliglustat. Molecular Genetics and Metabolism Reports, 2020, 24, 100606.	0.4	4
46	CT-based internal density calibration for opportunistic skeletal assessment using abdominal CT scans. Medical Engineering and Physics, 2020, 78, 55-63.	0.8	33
47	Postural Balance Effects Associated with 400, 4000 or 10,000 IU Vitamin D3 Daily for Three Years: A Secondary Analysis of a Randomized Clinical Trial. Nutrients, 2020, 12, 527.	1.7	6
48	Reply to Effects of High-Dose Vitamin D Supplementation on Bone Fragility. Journal of Bone and Mineral Research, 2020, 36, 622-622.	3.1	0
49	Reply to Vitamin D Supplements: Is Bone Loss by HR-pQCT Really Negative?. Journal of Bone and Mineral Research, 2020, 36, 1206-1207.	3.1	0
50	Reply to Burt LA, et al.: Adverse Effects of High-Dose Vitamin D Supplementation on Volumetric Bone Density Are Greater in Females Than Males. Journal of Bone and Mineral Research, 2020, 36, 1417-1418.	3.1	2
51	Bone Microarchitecture Phenotypes Identified in Older Adults Are Associated With Different Levels of Osteoporotic Fracture Risk. Journal of Bone and Mineral Research, 2020, 37, 428-439.	3.1	24
52	Concurrent Assessment of Cartilage Morphology and Bone Microarchitecture in the Human Knee Using Contrast-Enhanced HR-pQCT Imaging. Journal of Clinical Densitometry, 2019, 22, 74-85.	0.5	15
53	Trabecular Bone Score at the Distal Femur and Proximal Tibia in Individuals With Spinal Cord Injury. Journal of Clinical Densitometry, 2019, 22, 249-256.	0.5	8
54	Longitudinal Effects of Acute Anterior Cruciate Ligament Tears on Periâ€Articular Bone in Human Knees Within the First Year of Injury. Journal of Orthopaedic Research, 2019, 37, 2325-2336.	1.2	31

STEVEN BOYD

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55	Assessment of the elastic properties of human vertebral trabecular bone using computational mechanical tests and x-ray microtomography—a subvolume analysis. Biomedical Physics and Engineering Express, 2019, 5, 045031.	0.6	1
56	Effect of High-Dose Vitamin D Supplementation on Volumetric Bone Density and Bone Strength. JAMA - Journal of the American Medical Association, 2019, 322, 736.	3.8	220
57	The Correction of Systematic Error due to Plaster and Fiberglass Casts on HR-pQCT Bone Parameters Measured In Vivo at the Distal Radius. Journal of Clinical Densitometry, 2019, 22, 401-408.	0.5	8
58	The SPECTRA Collaboration OMERACT Working Group: Construct Validity of Joint Space Outcomes with High-resolution Peripheral Quantitative Computed Tomography. Journal of Rheumatology, 2019, 46, 1369-1373.	1.0	15
59	Absence of Proteoglycan 4 (<i>Prg4</i>) Leads to Increased Subchondral Bone Porosity Which Can Be Mitigated Through Intraâ€Articular Injection of PRG4. Journal of Orthopaedic Research, 2019, 37, 2077-2088.	1.2	16
60	Hip load capacity cut-points for Astronaut Skeletal Health NASA Finite Element Strength Task Group Recommendations. Npj Microgravity, 2019, 5, 6.	1.9	10
61	Absence of p21(WAF1/CIP1/SDI1) protects against osteopenia and minimizes bone loss after ovariectomy in a mouse model. PLoS ONE, 2019, 14, e0215018.	1.1	4
62	Bone Adaptation as Level Set Motion. Lecture Notes in Computer Science, 2019, , 58-72.	1.0	1
63	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
64	The Influence of Reconstruction Kernel on Bone Mineral and Strength Estimates Using Quantitative Computed Tomography and Finite Element Analysis. Journal of Clinical Densitometry, 2019, 22, 219-228.	0.5	11
65	Methods and procedures for: A randomized double-blind study investigating dose-dependent longitudinal effects of vitamin D supplementation on bone health. Contemporary Clinical Trials, 2018, 67, 68-73.	0.8	12
66	Differences in subchondral bone plate and cartilage thickness between women with anterior cruciate ligament reconstructions and uninjured controls. Osteoarthritis and Cartilage, 2018, 26, 929-939.	0.6	29
67	Lower Bone Density, Impaired Microarchitecture, and Strength Predict Future Fragility Fracture in Postmenopausal Women: 5-Year Follow-up of the Calgary CaMos Cohort. Journal of Bone and Mineral Research, 2018, 33, 589-597.	3.1	42
68	Subchondral bone microarchitecture in ACL reconstructed knees of young women: A comparison with contralateral and uninjured control knees. Bone, 2018, 111, 1-8.	1.4	27
69	Assessment of Bone Mineral Density at the Distal Femur and the Proximal Tibia by Dual-Energy X-ray Absorptiometry in Individuals With Spinal Cord Injury: Precision of Protocol and Relation to Injury Duration. Journal of Clinical Densitometry, 2018, 21, 338-346.	0.5	12
70	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.	3.1	148
71	The relationship between estimated bone strength by finite element analysis at the peripheral skeleton to areal BMD and trabecular bone score at lumbar spine. Bone, 2018, 117, 47-53.	1.4	9
72	Harmonizing finite element modelling for non-invasive strength estimation by high-resolution peripheral quantitative computed tomography. Journal of Biomechanics, 2018, 80, 63-71.	0.9	35

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73	Long-Term and Recent Weight Change Are Associated With Reduced Peripheral Bone Density, Deficits in Bone Microarchitecture, and Decreased Bone Strength: The Framingham Osteoporosis Study. Journal of Bone and Mineral Research, 2018, 33, 1851-1858.	3.1	18
74	Overexpression of E2F1 in chondrocytes increases cartilaginous callus formation and consequent bone regeneration after fracture. Osteoarthritis and Cartilage, 2018, 26, S91-S92.	0.6	2
75	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
76	A study of the relationship between meniscal injury and bone microarchitecture in ACL reconstructed knees. Knee, 2018, 25, 746-756.	0.8	10
77	Contrast-enhanced x-ray microscopy of bovine articular cartilage. , 2018, , .		2
78	Automatic Full Femur Segmentation from Computed Tomography Datasets Using an Atlas-Based Approach. Lecture Notes in Computer Science, 2018, , 120-132.	1.0	2
79	Quantitative in vivo assessment of bone microarchitecture in the human knee using HR-pQCT. Bone, 2017, 97, 43-48.	1.4	58
80	Cranio-caudal asymmetries in trabecular architecture reflect vertebral fracture patterns. Bone, 2017, 95, 102-107.	1.4	6
81	Cortical porosity exhibits accelerated rate of change in peri- compared with post-menopausal women. Osteoporosis International, 2017, 28, 1423-1431.	1.3	9
82	Distal skeletal tibia assessed by HR-pQCT is highly correlated with femoral and lumbar vertebra failure loads. Journal of Biomechanics, 2017, 59, 43-49.	0.9	25
83	The Estimation of Second-Generation HR-pQCT From First-Generation HR-pQCT Using In Vivo Cross-Calibration. Journal of Bone and Mineral Research, 2017, 32, 1514-1524.	3.1	52
84	Cross-sectional Versus Longitudinal Change in a Prospective HR-pQCT Study. Journal of Bone and Mineral Research, 2017, 32, 1505-1513.	3.1	39
85	Bone Strength Estimated by Micro-Finite Element Analysis (µFEA) Is Heritable and Shares Genetic Predisposition With Areal BMD: The Framingham Study. Journal of Bone and Mineral Research, 2017, 32, 2151-2156.	3.1	5
86	A Consensus Method for Determining Volumetric Joint Space Width in Finger Joints of Arthritis Patients Using HR-PQCT. Osteoarthritis and Cartilage, 2017, 25, S233-S234.	0.6	0
87	Romosozumab Improves Bone Mass and Strength While Maintaining Bone Quality in Ovariectomized Cynomolgus Monkeys. Journal of Bone and Mineral Research, 2017, 32, 788-801.	3.1	82
88	Mechanical stimuli of trabecular bone in osteoporosis: A numerical simulation by finite element analysis of microarchitecture. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 66, 19-27.	1.5	31
89	Operator variability in scan positioning is a major component of HR-pQCT precision error and is reduced by standardized training. Osteoporosis International, 2017, 28, 245-257.	1.3	33
90	Visceral Adipose Tissue Is Associated With Bone Microarchitecture in the Framingham Osteoporosis Study. Journal of Bone and Mineral Research, 2017, 32, 143-150.	3.1	59

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91	p21â^'/â^' mice exhibit enhanced bone regeneration after injury. BMC Musculoskeletal Disorders, 2017, 18, 435.	0.8	21
92	Sex- and Site-Specific Normative Data Curves for HR-pQCT. Journal of Bone and Mineral Research, 2016, 31, 2041-2047.	3.1	90
93	Competitive trampolining influences trabecular bone structure, bone size, and bone strength. Journal of Sport and Health Science, 2016, 5, 469-475.	3.3	7
94	Determining Metacarpophalangeal Flexion Angle Tolerance for Reliable Volumetric Joint Space Measurements by High-resolution Peripheral Quantitative Computed Tomography. Journal of Rheumatology, 2016, 43, 1941-1944.	1.0	10
95	Morphology based anisotropic finite element models of the proximal femur validated with experimental data. Medical Engineering and Physics, 2016, 38, 1339-1347.	0.8	29
96	Evaluation of bone loss in antibacterial coated dental implants: An experimental study in dogs. Materials Science and Engineering C, 2016, 69, 538-545.	3.8	44
97	P21 deficiency increases the regenerative capacity of bone and cartilage after injury. Osteoarthritis and Cartilage, 2016, 24, S367-S368.	0.6	0
98	Integrin α1β1 protects against signs of post-traumatic osteoarthritis in the female murine knee partially via regulation of epidermal growth factor receptor signalling. Osteoarthritis and Cartilage, 2016, 24, 1795-1806.	0.6	21
99	Impact of Growth Hormone on Adult Bone Quality in Turner Syndrome: A HR-pQCT Study. Calcified Tissue International, 2016, 98, 49-59.	1.5	22
100	Bilateral Asymmetry of Radius and Tibia Bone Macroarchitecture and Microarchitecture: A High-Resolution Peripheral Quantitative Computed Tomography Study. Journal of Clinical Densitometry, 2016, 19, 250-254.	0.5	15
101	Longitudinal HR-pQCT and Image Registration Detects Endocortical Bone Loss in Kidney Transplantation Patients. Journal of Bone and Mineral Research, 2015, 30, 554-561.	3.1	62
102	Premature changes in trabecular and cortical microarchitecture result in decreased bone strength in hemophilia. Blood, 2015, 125, 2160-2163.	0.6	23
103	Cartilage imaging of a rabbit knee using dual-energy X-ray microscopy and 1.0ÂT andÂ9.4ÂT magnetic resonance imaging. Journal of Orthopaedic Translation, 2015, 3, 212-218.	1.9	7
104	Human trabecular bone microarchitecture can be assessed independently of density with second generation HR-pQCT. Bone, 2015, 79, 213-221.	1.4	138
105	Bone quality in osteopenic postmenopausal women is not improved after 12Âmonths of whole-body vibration training. Osteoporosis International, 2015, 26, 911-920.	1.3	40
106	The poro-viscoelastic properties of trabecular bone: a micro computed tomography-based finite element study. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 44, 1-9.	1.5	46
107	The distribution of bone mass in the lumbar vertebrae: are we measuring the right target?. Spine Journal, 2015, 15, 2412-2416.	0.6	11
108	Investigating the role of bone microarchitecture in early osteoarthritis using new in vivo 3D high-resolution peripheral quantitative computed tomography. Osteoarthritis and Cartilage, 2015, 23, A239.	0.6	1

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109	The relationship between serum 25(OH)D and bone density and microarchitecture as measured by HR-pQCT. Osteoporosis International, 2015, 26, 2375-2380.	1.3	25
110	Bone micro-architecture of elite alpine skiers is not reflected by bone mineral density. Osteoporosis International, 2015, 26, 2309-2317.	1.3	9
111	Improvement in Bone Mineral Density and Architecture in a Patient with Gaucher Disease Using Teriparatide. JIMD Reports, 2015, 22, 23-28.	0.7	7
112	A comparison of methods for in vivo assessment of cortical porosity in the human appendicular skeleton. Bone, 2015, 73, 167-175.	1.4	42
113	International Combined Orthopaedic Research Societies: A model for international collaboration to promote orthopaedic and musculoskeletal research. Journal of Orthopaedic Translation, 2014, 2, 165-169.	1.9	1
114	Bone quality in prehistoric, cisâ€baikal forager femora: A microâ€CT analysis of cortical canal microstructure. American Journal of Physical Anthropology, 2014, 154, 486-497.	2.1	5
115	Embryonic stem cell therapy improves bone quality in a model of impaired fracture healing in the mouse; tracked temporally using in vivo micro-CT. Bone, 2014, 64, 263-272.	1.4	29
116	Classification of women with and without hip fracture based on quantitative computed tomography and finite element analysis. Osteoporosis International, 2014, 25, 619-626.	1.3	51
117	Proximal femur elastic behaviour is the same in impact and constant displacement rate fall simulation. Journal of Biomechanics, 2014, 47, 3744-3749.	0.9	29
118	Mapping anisotropy of the proximal femur for enhanced image based finite element analysis. Journal of Biomechanics, 2014, 47, 3272-3278.	0.9	35
119	Predicting the permeability of trabecular bone by micro-computed tomography and finite element modeling. Journal of Biomechanics, 2014, 47, 3129-3134.	0.9	32
120	Bone microarchitecture and strength of the radius and tibia in a reference population of young adults: an HR-pQCT study. Archives of Osteoporosis, 2014, 9, 183.	1.0	30
121	AB0955â€Determining Optimal Hand Position for Reliable Metacarpophalangeal Joint Width Measurements Using Volumetric Methodology by Hr-Pqct: Table 1. Annals of the Rheumatic Diseases, 2014, 73, 1116.1-1116.	0.5	0
122	Women with previous fragility fractures can be classified based on bone microarchitecture and finite element analysis measured with HR-pQCT. Osteoporosis International, 2013, 24, 1733-1740.	1.3	103
123	High-Resolution Peripheral Quantitative Computed Tomography for the Assessment of Bone Strength and Structure: A Review by the Canadian Bone Strength Working Group. Current Osteoporosis Reports, 2013, 11, 136-146.	1.5	182
124	Bone micro-architecture, estimated bone strength, and the muscle-bone interaction in elite athletes: An HR-pQCT study. Bone, 2013, 56, 281-289.	1.4	79
125	Proximal femur bone strength estimated by a computationally fast finite element analysis in a sideways fall configuration. Journal of Biomechanics, 2013, 46, 1231-1236.	0.9	92
126	Micro-CT evaluation of bone defects: Applications to osteolytic bone metastases, bone cysts, and fracture. Medical Engineering and Physics, 2013, 35, 1645-1650.	0.8	16

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127	Regional variations in trabecular architecture of the lumbar vertebra: Associations with age, disc degeneration and disc space narrowing. Bone, 2013, 56, 249-254.	1.4	29
128	Occupational loading may not affect the association between vertebral trabecular bone and intervertebral disc narrowing. Bone, 2013, 57, 375-376.	1.4	3
129	Reproducible metacarpal joint space width measurements using 3D analysis of images acquired with high-resolution peripheral quantitative computed tomography. Medical Engineering and Physics, 2013, 35, 1540-1544.	0.8	29
130	Effects of growth hormone on the ontogenetic allometry of craniofacial bones. Evolution & Development, 2013, 15, 133-145.	1.1	44
131	<i>In vivo</i> monitoring of bone–implant bond strength by microCT and finite element modelling. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 993-1001.	0.9	13
132	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.	3.1	98
133	Assessment of the efficacy of MRI for detection of changes in bone morphology in a mouse model of bone injury. Journal of Magnetic Resonance Imaging, 2013, 38, 231-237.	1.9	11
134	Embryonic Stem Cells Incorporate into Newly Formed Bone and do Not Form Tumors in an Immunocompetent Mouse Fracture Model. Cell Transplantation, 2013, 22, 1453-1462.	1.2	12
135	Estimation of the Poroelastic Properties of Trabecular Bone at the Microscopic Scale Using CT Based FE Models. , 2013, , .		Ο
136	Trabecular Bone Poroelasticity for MicroCT-Based FE Models. , 2013, , 145-155.		1
137	Quantification of small joint space width, periarticular bone microstructure and erosions using high-resolution peripheral quantitative computed tomography in rheumatoid arthritis. Clinical and Experimental Rheumatology, 2013, 31, 243-50.	0.4	31
138	Microarchitecture, but Not Bone Mechanical Properties, Is Rescued with Growth Hormone Treatment in a Mouse Model of Growth Hormone Deficiency. International Journal of Endocrinology, 2012, 2012, 1-10.	0.6	12
139	In Vivo Bone Architecture in Pompe Disease Using High-Resolution Peripheral Computed Tomography. JIMD Reports, 2012, 7, 81-88.	0.7	11
140	Quality control for bone quality parameters affected by subject motion in high-resolution peripheral quantitative computed tomography. Bone, 2012, 50, 1304-1310.	1.4	133
141	High-Frequency, Low-Magnitude Vibration Does Not Prevent Bone Loss Resulting from Muscle Disuse in Mice following Botulinum Toxin Injection. PLoS ONE, 2012, 7, e36486.	1.1	21
142	Quantitative Ex-Vivo Micro-Computed Tomographic Imaging of Blood Vessels and Necrotic Regions within Tumors. PLoS ONE, 2012, 7, e41685.	1.1	24
143	Response to "Vertebral fracture and intervertebral discs― Journal of Bone and Mineral Research, 2012, 27, 1433-1434.	3.1	2
144	Cortical porosity is higher in boys compared with girls at the distal radius and distal tibia during pubertal growth: An HR-pQCT study. Journal of Bone and Mineral Research, 2012, 27, 273-282.	3.1	100

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145	Deformable image registration and 3D strain mapping for the quantitative assessment of cortical bone microdamage. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 8, 184-193.	1.5	61
146	Fragile Spines on Cayo Santiago: Bone Mineral Density, Trabecular Morphology, and the Potential for Exploring the Genetics of Osteoporosis in Rhesus Monkeys. , 2012, , 85-116.		3
147	The osseous endplates in lumbar vertebrae: Thickness, bone mineral density and their associations with age and disk degeneration. Bone, 2011, 48, 804-809.	1.4	85
148	Increased bone strength is associated with improved bone microarchitecture in intact female rats treated with strontium ranelate: A finite element analysis study. Bone, 2011, 48, 1109-1116.	1.4	28
149	The bone architecture is enhanced with combined PTH and alendronate treatment compared to monotherapy while maintaining the state of surface mineralization in the OVX rat. Bone, 2011, 49, 225-232.	1.4	26
150	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
151	Bone Quality and Muscle Strength in Female Athletes with Lower Limb Stress Fractures. Medicine and Science in Sports and Exercise, 2011, 43, 2110-2119.	0.2	82
152	Physical activity positively predicts bone architecture and bone strength in adolescent males and females. Acta Paediatrica, International Journal of Paediatrics, 2011, 100, 97-101.	0.7	38
153	Changes in trabecular and cortical bone microarchitecture at peripheral sites associated with 18Âmonths of teriparatide therapy in postmenopausal women with osteoporosis. Osteoporosis International, 2011, 22, 357-362.	1.3	111
154	Bone quality is partially recovered after the discontinuation of RANKL administration in rats by increased bone mass on existing trabeculae: an in vivo micro-CT study. Osteoporosis International, 2011, 22, 931-942.	1.3	26
155	Age-related patterns of trabecular and cortical bone loss differ between sexes and skeletal sites: A population-based HR-pQCT study. Journal of Bone and Mineral Research, 2011, 26, 50-62.	3.1	298
156	Is greater lumbar vertebral BMD associated with more disk degeneration? A study using ÂμCT and discography. Journal of Bone and Mineral Research, 2011, 26, 2785-2791.	3.1	55
157	Vertical ground reaction forces diminish in mice after botulinum toxin injection. Journal of Biomechanics, 2011, 44, 637-643.	0.9	23
158	Automated quantification of three-dimensional subject motion to monitor image quality in high-resolution peripheral quantitative computed tomography. Physics in Medicine and Biology, 2011, 56, 6523-6543.	1.6	25
159	A blueprint for bone health across the lifespan: engaging novel team members to influence fracture rates. British Journal of Sports Medicine, 2011, 45, 463-464.	3.1	2
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