

Klaus Engelke

List of Publications by Year in descending order

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Version: 2024-02-01

180
papers

11,216
citations

25034

57
h-index

32842

100
g-index

188
all docs

188
docs citations

188
times ranked

9814
citing authors

#	ARTICLE	IF	CITATIONS
1	Noninvasive assessment of bone mineral and structure: State of the art. Journal of Bone and Mineral Research, 1996, 11, 707-730.	2.8	786
2	Universal standardization for dual X-ray absorptiometry: Patient and phantom cross-calibration results. Journal of Bone and Mineral Research, 1994, 9, 1503-1514.	2.8	534
3	Pitfalls in the measurement of muscle mass: a need for a reference standard. Journal of Cachexia, Sarcopenia and Muscle, 2018, 9, 269-278.	7.3	482
4	Clinical Use of Quantitative Computed Tomography and Peripheral Quantitative Computed Tomography in the Management of Osteoporosis in Adults: The 2007 ISCD Official Positions. Journal of Clinical Densitometry, 2008, 11, 123-162.	1.2	430
5	Romosozumab (sclerostin monoclonal antibody) versus teriparatide in postmenopausal women with osteoporosis transitioning from oral bisphosphonate therapy: a randomised, open-label, phase 3 trial. Lancet, The, 2017, 390, 1585-1594.	13.7	313
6	Bone loss before the clinical onset of rheumatoid arthritis in subjects with anticitrullinated protein antibodies. Annals of the Rheumatic Diseases, 2014, 73, 854-860.	0.9	269
7	A new accurate and precise 3-D segmentation method for skeletal structures in volumetric CT data. IEEE Transactions on Medical Imaging, 2003, 22, 586-598.	8.9	237
8	Executive Summary of the 2015 ISCD Position Development Conference on Advanced Measures From DXA and QCT: Fracture Prediction Beyond BMD. Journal of Clinical Densitometry, 2015, 18, 274-286.	1.2	213
9	Benefits of 2 Years of Intense Exercise on Bone Density, Physical Fitness, and Blood Lipids in Early Postmenopausal Osteopenic Women. Archives of Internal Medicine, 2004, 164, 1084.	3.8	206
10	Accuracy limits for the determination of cortical width and density: the influence of object size and CT imaging parameters. Physics in Medicine and Biology, 1999, 44, 751-764.	3.0	200
11	Regulatory T Cells Protect from Local and Systemic Bone Destruction in Arthritis. Journal of Immunology, 2010, 184, 7238-7246.	0.8	184
12	Guidelines for the assessment of bone density and microarchitecture in vivo using high-resolution peripheral quantitative computed tomography. Osteoporosis International, 2020, 31, 1607-1627.	3.1	181
13	Volumetric quantitative computed tomography of the proximal femur: relationships linking geometric and densitometric variables to bone strength. Role for compact bone. Osteoporosis International, 2006, 17, 855-864.	3.1	167
14	Periarticular bone structure in rheumatoid arthritis patients and healthy individuals assessed by high-resolution computed tomography. Arthritis and Rheumatism, 2010, 62, 330-339.	6.7	153
15	A hierarchical 3D segmentation method and the definition of vertebral body coordinate systems for QCT of the lumbar spine. Medical Image Analysis, 2006, 10, 560-577.	11.6	148
16	Additive effect of anti-citrullinated protein antibodies and rheumatoid factor on bone erosions in patients with RA. Annals of the Rheumatic Diseases, 2015, 74, 2151-2156.	0.9	143
17	Advanced CT bone imaging in osteoporosis. Rheumatology, 2008, 47, iv9-iv16.	1.9	138
18	Exercise Effects on Bone Mineral Density, Falls, Coronary Risk Factors, and Health Care Costs in Older Women. Archives of Internal Medicine, 2010, 170, 179.	3.8	135

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19	Exercise maintains bone density at spine and hip EFOPS: a 3-year longitudinal study in early postmenopausal women. <i>Osteoporosis International</i> , 2006, 17, 133-142.	3.1	131
20	A comparative study of periarticular bone lesions in rheumatoid arthritis and psoriatic arthritis. <i>Annals of the Rheumatic Diseases</i> , 2011, 70, 122-127.	0.9	121
21	Bone Density, Turnover, and Estimated Strength in Postmenopausal Women Treated With Odanacatib: A Randomized Trial. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013, 98, 571-580.	3.6	119
22	Quantitative analysis of skeletal muscle by computed tomography imaging—State of the art. <i>Journal of Orthopaedic Translation</i> , 2018, 15, 91-103.	3.9	118
23	Assessment of the skeletal status by peripheral quantitative computed tomography of the forearm: Short-term precision in vivo and comparison to dual X-ray absorptiometry. <i>Journal of Bone and Mineral Research</i> , 1995, 10, 1566-1576.	2.8	114
24	Clinical Use of Quantitative Computed Tomography—Based Finite Element Analysis of the Hip and Spine in the Management of Osteoporosis in Adults: the 2015 ISCD Official Positions—Part II. <i>Journal of Clinical Densitometry</i> , 2015, 18, 359-392.	1.2	109
25	Opportunistic Screening Using Low-Dose CT and the Prevalence of Osteoporosis in China: A Nationwide, Multicenter Study. <i>Journal of Bone and Mineral Research</i> , 2020, 36, 427-435.	2.8	109
26	Repair of bone erosions in rheumatoid arthritis treated with tumour necrosis factor inhibitors is based on bone apposition at the base of the erosion. <i>Annals of the Rheumatic Diseases</i> , 2011, 70, 1587-1593.	0.9	102
27	Clinical Use of Quantitative Computed Tomography—Based Advanced Techniques in the Management of Osteoporosis in Adults: the 2015 ISCD Official Positions—Part III. <i>Journal of Clinical Densitometry</i> , 2015, 18, 393-407.	1.2	102
28	Interleukin-6 receptor blockade induces limited repair of bone erosions in rheumatoid arthritis: a micro CT study. <i>Annals of the Rheumatic Diseases</i> , 2013, 72, 396-400.	0.9	98
29	Multicenter precision of cortical and trabecular bone quality measures assessed by high-resolution peripheral quantitative computed tomography. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 524-536.	2.8	98
30	Femoral and Vertebral Strength Improvements in Postmenopausal Women With Osteoporosis Treated With Denosumab. <i>Journal of Bone and Mineral Research</i> , 2014, 29, 158-165.	2.8	98
31	Inactivation of autophagy ameliorates glucocorticoid-induced and ovariectomy-induced bone loss. <i>Annals of the Rheumatic Diseases</i> , 2016, 75, 1203-1210.	0.9	98
32	Effects of Romosozumab Compared With Teriparatide on Bone Density and Mass at the Spine and Hip in Postmenopausal Women With Low Bone Mass. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 181-187.	2.8	98
33	Clinical Use of Quantitative Computed Tomography (QCT) of the Hip in the Management of Osteoporosis in Adults: the 2015 ISCD Official Positions—Part I. <i>Journal of Clinical Densitometry</i> , 2015, 18, 338-358.	1.2	96
34	Quantitative Computed Tomography—Current Status and New Developments. <i>Journal of Clinical Densitometry</i> , 2017, 20, 309-321.	1.2	95
35	Quantitative computed tomography (QCT) of the forearm using general purpose spiral whole-body CT scanners: Accuracy, precision and comparison with dual-energy X-ray absorptiometry (DXA). <i>Bone</i> , 2009, 45, 110-118.	2.9	93
36	Advanced CT based In Vivo Methods for the Assessment of Bone Density, Structure, and Strength. <i>Current Osteoporosis Reports</i> , 2013, 11, 246-255.	3.6	90

#	ARTICLE	IF	CITATIONS
37	Quantitative Computer Tomography in Children and Adolescents: The 2013 ISCD Pediatric Official Positions. <i>Journal of Clinical Densitometry</i> , 2014, 17, 258-274.	1.2	89
38	Exercise effects on fitness and bone mineral density in early postmenopausal women: 1-year EFOPS results. <i>Medicine and Science in Sports and Exercise</i> , 2002, 34, 2115-2123.	0.4	88
39	Once-Monthly Oral Ibandronate Improves Biomechanical Determinants of Bone Strength in Women with Postmenopausal Osteoporosis. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2009, 94, 171-180.	3.6	86
40	Interactive 3D editing tools for image segmentation. <i>Medical Image Analysis</i> , 2004, 8, 35-46.	11.6	82
41	Impact of whole-body electromyostimulation on body composition in elderly women at risk for sarcopenia: the Training and ElectroStimulation Trial (TEST-III). <i>Age</i> , 2014, 36, 395-406.	3.0	82
42	Interactions between Muscle and Bone – Where Physics Meets Biology. <i>Biomolecules</i> , 2020, 10, 432.	4.0	79
43	Denosumab improves density and strength parameters as measured by QCT of the radius in postmenopausal women with low bone mineral density. <i>Bone</i> , 2010, 47, 131-139.	2.9	78
44	Effects of Whole-Body Vibration Training on Different Devices on Bone Mineral Density. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 1071-1079.	0.4	78
45	In vivo discrimination of hip fracture with quantitative computed tomography: Results from the prospective European Femur Fracture Study (EFFECT). <i>Journal of Bone and Mineral Research</i> , 2011, 26, 881-893.	2.8	78
46	Quality and performance measures in bone densitometry. <i>Osteoporosis International</i> , 2006, 17, 1283-1292.	3.1	77
47	Effects of High-Intensity Resistance Training on Osteopenia and Sarcopenia Parameters in Older Men with Osteosarcopenia – One-Year Results of the Randomized Controlled Franconian Osteopenia and Sarcopenia Trial (<scp>FROST</scp>). <i>Journal of Bone and Mineral Research</i> , 2020, 35, 1634-1644.	2.8	71
48	Greater Gains in Spine and Hip Strength for Romosozumab Compared With Teriparatide in Postmenopausal Women With Low Bone Mass. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 1956-1962.	2.8	70
49	Advanced Knee Structure Analysis (AKSA): a comparison of bone mineral density and trabecular texture measurements using computed tomography and high-resolution peripheral quantitative computed tomography of human knee cadavers. <i>Arthritis Research and Therapy</i> , 2017, 19, 1.	3.5	68
50	Exercise, Body Composition, and Functional Ability. <i>American Journal of Preventive Medicine</i> , 2010, 38, 279-287.	3.0	66
51	Differential effects of strength versus power training on bone mineral density in postmenopausal women: a 2-year longitudinal study. <i>British Journal of Sports Medicine</i> , 2007, 41, 649-655.	6.7	65
52	Segmentation and quantification of bone erosions in high-resolution peripheral quantitative computed tomography datasets of the metacarpophalangeal joints of patients with rheumatoid arthritis. <i>Rheumatology</i> , 2014, 53, 65-71.	1.9	65
53	Evaluation of 2-point, 3-point, and 6-point Dixon magnetic resonance imaging with flexible echo timing for muscle fat quantification. <i>European Journal of Radiology</i> , 2018, 103, 57-64.	2.6	64
54	Repeatability of Dixon magnetic resonance imaging and magnetic resonance spectroscopy for quantitative muscle fat assessments in the thigh. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2018, 9, 1093-1100.	7.3	62

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55	Short-term in vivo precision of BMD and parameters of trabecular architecture at the distal forearm and tibia. <i>Osteoporosis International</i> , 2012, 23, 2151-2158.	3.1	61
56	Muscle Density, but Not Size, Correlates Well With Muscle Strength and Physical Performance. <i>Journal of the American Medical Directors Association</i> , 2021, 22, 751-759.e2.	2.5	61
57	Accuracy of bone mineral density quantification using dual-layer spectral detector CT: a phantom study. <i>European Radiology</i> , 2017, 27, 4351-4359.	4.5	60
58	Improvements in hip trabecular, subcortical, and cortical density and mass in postmenopausal women with osteoporosis treated with denosumab. <i>Bone</i> , 2013, 56, 482-488.	2.9	59
59	The effect of habitual physical activity, non-athletic exercise, muscle strength, and VO2max on bone mineral density is rather low in early postmenopausal osteopenic women. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2004, 4, 325-34.	0.1	59
60	Quantitative and Qualitative Changes of Bone in Psoriasis and Psoriatic Arthritis Patients. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 1775-1783.	2.8	58
61	Looking beyond bone mineral density. <i>Annals of the New York Academy of Sciences</i> , 2010, 1192, 45-56.	3.8	57
62	Implementation of a cone-beam reconstruction algorithm for the single-circle source orbit with embedded misalignment correction using homogeneous coordinates. <i>Medical Physics</i> , 2001, 28, 2050-2069.	3.0	56
63	Decreased Quantity and Quality of the Periarticular and Nonperiarticular Bone in Patients With Rheumatoid Arthritis: A Cross-Sectional HR-pQCT Study. <i>Journal of Bone and Mineral Research</i> , 2014, 29, 1005-1014.	2.8	56
64	FEA to Measure Bone Strength: A Review. <i>Clinical Reviews in Bone and Mineral Metabolism</i> , 2016, 14, 26-37.	0.8	56
65	Universal Standardization of Forearm Bone Densitometry. <i>Journal of Bone and Mineral Research</i> , 2002, 17, 734-745.	2.8	54
66	Ronacaleret, a calcium-sensing receptor antagonist, increases trabecular but not cortical bone in postmenopausal women. <i>Journal of Bone and Mineral Research</i> , 2012, 27, 255-262.	2.8	53
67	The clinical application of high-resolution peripheral computed tomography (HR-pQCT) in adults: state of the art and future directions. <i>Osteoporosis International</i> , 2021, 32, 1465-1485.	3.1	51
68	The erlangen fitness osteoporosis prevention study: a controlled exercise trial in early postmenopausal women with low bone density – first-year results. <i>Archives of Physical Medicine and Rehabilitation</i> , 2003, 84, 673-682.	0.9	50
69	Advanced imaging assessment of bone fragility in glucocorticoid-induced osteoporosis. <i>Bone</i> , 2011, 48, 1221-1231.	2.9	50
70	An in vivo comparison of hip structure analysis (HSA) with measurements obtained by QCT. <i>Osteoporosis International</i> , 2012, 23, 543-551.	3.1	50
71	Acute hormonal responses of a high impact physical exercise session in early postmenopausal women. <i>European Journal of Applied Physiology</i> , 2003, 90, 199-209.	2.5	49
72	Reanalysis precision of 3D quantitative computed tomography (QCT) of the spine. <i>Bone</i> , 2009, 44, 566-572.	2.9	48

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73	Volumetric DXA (VXA): A new method to extract 3D information from multiple in vivo DXA images. Journal of Bone and Mineral Research, 2010, 25, 2744-2751.	2.8	48
74	CT imaging for the investigation of subchondral bone in knee osteoarthritis. Osteoporosis International, 2012, 23, 861-865.	3.1	47
75	Comparison of proximal femur and vertebral body strength improvements in the FREEDOM trial using an alternative finite element methodology. Bone, 2015, 81, 122-130.	2.9	47
76	An anatomic coordinate system of the femoral neck for highly reproducible BMD measurements using 3D QCT. Computerized Medical Imaging and Graphics, 2005, 29, 533-541.	5.8	46
77	Next-generation imaging of the skeletal system and its blood supply. Nature Reviews Rheumatology, 2019, 15, 533-549.	8.0	46
78	Bone status in elite male runners. European Journal of Applied Physiology, 2006, 96, 78-85.	2.5	45
79	Effects of High Intensity Dynamic Resistance Exercise and Whey Protein Supplements on Osteosarcopenia in Older Men with Low Bone and Muscle Mass. Final Results of the Randomized Controlled FrOST Study. Nutrients, 2020, 12, 2341.	4.1	45
80	The Erlangen fitness osteoporosis prevention study: A controlled exercise trial in early postmenopausal women with low bone density[mdash]first-year results. Archives of Physical Medicine and Rehabilitation, 2003, 84, 673-682.	0.9	45
81	Exercise Effects on Menopausal Risk Factors of Early Postmenopausal Women: 3-yr Erlangen Fitness Osteoporosis Prevention Study Results. Medicine and Science in Sports and Exercise, 2005, 37, 194-203.	0.4	43
82	Exercise and fractures in postmenopausal women: 12-year results of the Erlangen Fitness and Osteoporosis Prevention Study (EFOPS). Osteoporosis International, 2012, 23, 1267-1276.	3.1	43
83	Muscle density discriminates hip fracture better than computed tomography X-ray absorptiometry hip areal bone mineral density. Journal of Cachexia, Sarcopenia and Muscle, 2020, 11, 1799-1812.	7.3	42
84	Odanacatib Treatment Affects Trabecular and Cortical Bone in the Femur of Postmenopausal Women: Results of a Two-Year Placebo-Controlled Trial. Journal of Bone and Mineral Research, 2015, 30, 30-38.	2.8	41
85	Whole-Body Electromyostimulation to Fight Osteopenia in Elderly Females: The Randomized Controlled Training and Electrostimulation Trial (TEST-III). Journal of Osteoporosis, 2015, 2015, 1-7.	0.5	41
86	Advanced Imaging of Bone Macrostructure and Microstructure in Bone Fragility and Fracture Repair. Journal of Bone and Joint Surgery - Series A, 2008, 90, 68-78.	3.0	38
87	Prediction of Hip Failure Load: In Vitro Study of 80 Femurs Using Three Imaging Methods and Finite Element Modelsâ€”The European Fracture Study (EFFECT). Radiology, 2016, 280, 837-847.	7.3	38
88	Long-Term Exercise and Bone Mineral Density Changes in Postmenopausal Womenâ€”Are There Periods of Reduced Effectiveness?. Journal of Bone and Mineral Research, 2016, 31, 215-222.	2.8	38
89	Prevalence of sarcopenic obesity in Germany using established definitions. Osteoporosis International, 2016, 27, 275-281.	3.1	38
90	High resolution computed tomography of the vertebrae yields accurate information on trabecular distances if processed by 3D fuzzy segmentation approaches. Bone, 2009, 44, 145-152.	2.9	36

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91	Quantitative ultrasound of cortical bone in the femoral neck predicts femur strength: Results of a pilot study. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 302-312.	2.8	36
92	The Effect of the Cathepsin K Inhibitor ONO-5334 on Trabecular and Cortical Bone in Postmenopausal Osteoporosis: The OCEAN Study. <i>Journal of Bone and Mineral Research</i> , 2014, 29, 629-638.	2.8	36
93	Effect of exercise and Cimicifuga racemosa (CR BNO 1055) on bone mineral density, 10-year coronary heart disease risk, and menopausal complaints. <i>Menopause</i> , 2010, 17, 791-800.	2.0	35
94	Early Changes of the Cortical Micro-Channel System in the Bare Area of the Joints of Patients With Rheumatoid Arthritis. <i>Arthritis and Rheumatology</i> , 2017, 69, 1580-1587.	5.6	35
95	Age- and Sex-Dependent Changes of Intra-articular Cortical and Trabecular Bone Structure and the Effects of Rheumatoid Arthritis. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 722-730.	2.8	35
96	Romosozumab improves lumbar spine bone mass and bone strength parameters relative to alendronate in postmenopausal women: results from the Active-Controlled Fracture Study in Postmenopausal Women With Osteoporosis at High Risk (ARCH) trial. <i>Journal of Bone and Mineral Research</i> , 2021, 36, 2139-2152.	2.8	35
97	Bone marrow lesions identified by MRI in knee osteoarthritis are associated with locally increased bone mineral density measured by QCT. <i>Osteoarthritis and Cartilage</i> , 2013, 21, 957-964.	1.3	34
98	Phantom studies simulating the impact of trabecular structure on marrow relaxation time, T2*. <i>Magnetic Resonance in Medicine</i> , 1994, 31, 380-387.	3.0	33
99	Effect of block-periodized exercise training on bone and coronary heart disease risk factors in early postmenopausal women: a randomized controlled study. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2013, 23, 121-129.	2.9	33
100	Accuracy of trabecular structure by HR-pQCT compared to gold standard μ CT in the radius and tibia of patients with osteoporosis and long-term bisphosphonate therapy. <i>Osteoporosis International</i> , 2014, 25, 1595-1606.	3.1	33
101	Three-dimensional structural analysis of the proximal femur in an age-stratified sample of women. <i>Bone</i> , 2013, 55, 179-188.	2.9	32
102	Methods for segmentation of rheumatoid arthritis bone erosions in high-resolution peripheral quantitative computed tomography (HR-pQCT). <i>Seminars in Arthritis and Rheumatism</i> , 2018, 47, 611-618.	3.4	32
103	Regional distribution of spine and hip QCT BMD responses after one year of once-monthly ibandronate in postmenopausal osteoporosis. <i>Bone</i> , 2010, 46, 1626-1632.	2.9	31
104	Differences in bone structure between rheumatoid arthritis and psoriatic arthritis patients relative to autoantibody positivity. <i>Annals of the Rheumatic Diseases</i> , 2014, 73, 2022-2028.	0.9	31
105	Biomechanical properties of bone are impaired in patients with ACPA-positive rheumatoid arthritis and associated with the occurrence of fractures. <i>Annals of the Rheumatic Diseases</i> , 2018, 77, 973-980.	0.9	31
106	Potential of First Arriving Signal to Assess Cortical Bone Geometry at the Hip with QUS: A Model Based Study. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 656-666.	1.5	29
107	Finite element analyses of human vertebral bodies embedded in polymethylmethacrylate or loaded via the hyperelastic intervertebral disc models provide equivalent predictions of experimental strength. <i>Journal of Biomechanics</i> , 2014, 47, 2512-2516.	2.1	29
108	Three-dimensional Distribution of Muscle and Adipose Tissue of the Thigh at CT: Association with Acute Hip Fracture. <i>Radiology</i> , 2019, 290, 426-434.	7.3	29

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109	Dual X-ray absorptiometry forearm software: Accuracy and intermachine relationship. Journal of Bone and Mineral Research, 1994, 9, 1425-1427.	2.8	25
110	QCT of the proximal femur— which parameters should be measured to discriminate hip fracture?. Osteoporosis International, 2016, 27, 1137-1147.	3.1	25
111	Qualitative and Quantitative Assessment of Bone Fragility and Fracture Healing Using Conventional Radiography and Advanced Imaging Technologies-Focus on Wrist Fracture. Journal of Orthopaedic Trauma, 2008, 22, S83-S90.	1.4	23
112	Effect of Exercise, Body Composition, and Nutritional Intake on Bone Parameters in Male Elite Rock Climbers. International Journal of Sports Medicine, 2006, 27, 653-659.	1.7	21
113	A COMPARISON BETWEEN 6-POINT DIXON MRI AND MR SPECTROSCOPY TO QUANTIFY MUSCLE FAT IN THE THIGH OF SUBJECTS WITH SARCOPENIA. Journal of Frailty & Aging, the, 2019, 8, 1-6.	1.3	21
114	Automated three-dimensional registration of high-resolution peripheral quantitative computed tomography data to quantify size and shape changes of arthritic bone erosions. Rheumatology, 2015, 54, kev256.	1.9	20
115	Microcracks in subchondral bone plate is linked to less cartilage damage. Bone, 2019, 123, 1-7.	2.9	20
116	Significance of QCT Bone Mineral Density and Its Standard Deviation as Parameters to Evaluate Osteoporosis. Journal of Computer Assisted Tomography, 1995, 19, 111-116.	0.9	19
117	Assessment of bone quality and strength with new technologies. Current Opinion in Endocrinology, Diabetes and Obesity, 2012, 19, 474-482.	2.3	19
118	Magnetic Resonance Imaging and Bioelectrical Impedance Analysis to Assess Visceral and Abdominal Adipose Tissue. Obesity, 2020, 28, 277-283.	3.0	19
119	Muscle density is an independent risk factor of second hip fracture: a prospective cohort study. Journal of Cachexia, Sarcopenia and Muscle, 2022, 13, 1927-1937.	7.3	19
120	A reproducible semi-automatic method to quantify the muscle-lipid distribution in clinical 3D CT images of the thigh. PLoS ONE, 2017, 12, e0175174.	2.5	16
121	Automated quantitative morphometry of vertebral heights on spinal radiographs: comparison of a clinical workflow tool with standard 6-point morphometry. Archives of Osteoporosis, 2019, 14, 18.	2.4	15
122	Associations of Muscle Size and Density With Proximal Femur Bone in a Community Dwelling Older Population. Frontiers in Endocrinology, 2020, 11, 503.	3.5	15
123	Dose-efficient assessment of trabecular microstructure using ultra-high-resolution photon-counting CT. Zeitschrift Fur Medizinische Physik, 2022, 32, 403-416.	1.5	15
124	An Integrated Segmentation and Analysis Approach for QCT of the Knee to Determine Subchondral Bone Mineral Density and Texture. IEEE Transactions on Biomedical Engineering, 2012, 59, 2449-2458.	4.2	14
125	Cartilage morphology assessed by high resolution micro-computed tomography in non OA knees. Osteoarthritis and Cartilage, 2016, 24, 567-571.	1.3	14
126	QCT of the femur: Comparison between QCTPro CTXA and MIAF Femur. Bone, 2019, 120, 262-270.	2.9	14

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127	Effects of High-Intensity Resistance Training on Fitness and Fatness in Older Men With Osteosarcopenia. <i>Frontiers in Physiology</i> , 2020, 11, 1014.	2.8	14
128	RSK2 protects mice against TNF-induced bone loss. <i>Journal of Cell Science</i> , 2012, 125, 2160-71.	2.0	13
129	A low-radiation exposure protocol for 3D QCT of the spine. <i>Osteoporosis International</i> , 2014, 25, 983-992.	3.1	13
130	A new method to determine cortical bone thickness in CT images using a hybrid approach of parametric profile representation and local adaptive thresholds: Accuracy results. <i>PLoS ONE</i> , 2017, 12, e0187097.	2.5	13
131	Effects of 16 months of high intensity resistance training on thigh muscle fat infiltration in elderly men with osteosarcopenia. <i>GeroScience</i> , 2021, 43, 607-617.	4.6	13
132	A New Trabecular Region of Interest for Femoral Dual X-Ray Absorptiometry: Short-Term Precision, Age-Related Bone Loss, and Fracture Discrimination Compared with Current Femoral Regions of Interest. <i>Journal of Bone and Mineral Research</i> , 1997, 12, 832-838.	2.8	12
133	Stereolithographic models simulating trabecular bone and their characterization by thin-slice- and micro-CT. <i>European Radiology</i> , 2001, 11, 2026-2040.	4.5	12
134	Quality and performance measures in bone densitometry. <i>Osteoporosis International</i> , 2006, 17, 1449-1458.	3.1	12
135	Characterization and quantification of angiogenesis in rheumatoid arthritis in a mouse model using μ CT. <i>BMC Musculoskeletal Disorders</i> , 2014, 15, 298.	1.9	12
136	Feasibility of Dixon magnetic resonance imaging to quantify effects of physical training on muscle composition – A pilot study in young and healthy men. <i>European Journal of Radiology</i> , 2019, 114, 160-166.	2.6	12
137	Influence of meniscus on cartilage and subchondral bone features of knees from older individuals: A cadaver study. <i>PLoS ONE</i> , 2017, 12, e0181956.	2.5	12
138	The effect of ageing on fat infiltration of thigh and paraspinal muscles in men. <i>Aging Clinical and Experimental Research</i> , 2022, 34, 2089-2098.	2.9	12
139	BMD accuracy errors specific to phantomless calibration of CT scans of the lumbar spine. <i>Bone</i> , 2022, 157, 116304.	2.9	11
140	Binary Segmentation Masks Can Improve Intrasubject Registration Accuracy of Bone Structures in CT Images. <i>Annals of Biomedical Engineering</i> , 2010, 38, 2464-2472.	2.5	10
141	Segmentation of the fascia lata and reproducible quantification of intermuscular adipose tissue (IMAT) of the thigh. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, 34, 367-376.	2.0	10
142	The authors reply: Letter on: “Pitfalls in the measurement of muscle mass: a need for a reference standard” by Clark et al.. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2018, 9, 1272-1274.	7.3	9
143	Structural Analysis of High Resolution In Vitro MR Images Compared to Stained Grindings. <i>Calcified Tissue International</i> , 2001, 68, 163-171.	3.1	8
144	Influence of 3D QCT scan protocol on the QCT-based finite element models of human vertebral cancellous bone. <i>Medical Engineering and Physics</i> , 2014, 36, 1069-1073.	1.7	8

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145	Volumetric Bone Mineral Density in Cementless Total Hip Arthroplasty in Postmenopausal Women. Journal of Bone and Joint Surgery - Series A, 2021, 103, 1072-1082.	3.0	8
146	The effect of in situ/in vitro three-dimensional quantitative computed tomography image voxel size on the finite element model of human vertebral cancellous bone. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2014, 228, 1208-1213.	1.8	7
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