

Klaus Engelke

List of Publications by Year in descending order

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Version: 2024-02-01

180
papers

11,216
citations

24978

57
h-index

33814

99
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. <i>Journal of Bone and Mineral Research</i> , 1996, 11, 707-730.	3.1	786
2	Universal standardization for dual X-ray absorptiometry: Patient and phantom cross-calibration results. <i>Journal of Bone and Mineral Research</i> , 1994, 9, 1503-1514.	3.1	534
3	Pitfalls in the measurement of muscle mass: a need for a reference standard. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2018, 9, 269-278.	2.9	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. <i>Journal of Clinical Densitometry</i> , 2008, 11, 123-162.	0.5	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. <i>Lancet</i> , The, 2017, 390, 1585-1594.	6.3	313
6	Bone loss before the clinical onset of rheumatoid arthritis in subjects with anticitrullinated protein antibodies. <i>Annals of the Rheumatic Diseases</i> , 2014, 73, 854-860.	0.5	269
7	A new accurate and precise 3-D segmentation method for skeletal structures in volumetric CT data. <i>IEEE Transactions on Medical Imaging</i> , 2003, 22, 586-598.	5.4	237
8	Executive Summary of the 2015 ISCD Position Development Conference on Advanced Measures From DXA and QCT: Fracture Prediction Beyond BMD. <i>Journal of Clinical Densitometry</i> , 2015, 18, 274-286.	0.5	213
9	Benefits of 2 Years of Intense Exercise on Bone Density, Physical Fitness, and Blood Lipids in Early Postmenopausal Osteopenic Women. <i>Archives of Internal Medicine</i> , 2004, 164, 1084.	4.3	206
10	Accuracy limits for the determination of cortical width and density: the influence of object size and CT imaging parameters. <i>Physics in Medicine and Biology</i> , 1999, 44, 751-764.	1.6	200
11	Regulatory T Cells Protect from Local and Systemic Bone Destruction in Arthritis. <i>Journal of Immunology</i> , 2010, 184, 7238-7246.	0.4	184
12	Guidelines for the assessment of bone density and microarchitecture in vivo using high-resolution peripheral quantitative computed tomography. <i>Osteoporosis International</i> , 2020, 31, 1607-1627.	1.3	181
13	Volumetric quantitative computed tomography of the proximal femur: relationships linking geometric and densitometric variables to bone strength. Role for compact bone. <i>Osteoporosis International</i> , 2006, 17, 855-864.	1.3	167
14	Periarticular bone structure in rheumatoid arthritis patients and healthy individuals assessed by high-resolution computed tomography. <i>Arthritis and Rheumatism</i> , 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. <i>Medical Image Analysis</i> , 2006, 10, 560-577.	7.0	148
16	Additive effect of anti-citrullinated protein antibodies and rheumatoid factor on bone erosions in patients with RA. <i>Annals of the Rheumatic Diseases</i> , 2015, 74, 2151-2156.	0.5	143
17	Advanced CT bone imaging in osteoporosis. <i>Rheumatology</i> , 2008, 47, iv9-iv16.	0.9	138
18	Exercise Effects on Bone Mineral Density, Falls, Coronary Risk Factors, and Health Care Costs in Older Women. <i>Archives of Internal Medicine</i> , 2010, 170, 179.	4.3	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.	1.3	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.	0.5	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.	1.8	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.	1.9	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.	3.1	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.	0.5	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.	3.1	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.	0.5	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.	0.5	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.	0.5	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.	3.1	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.	3.1	98
31	Inactivation of autophagy ameliorates glucocorticoid-induced and ovariectomy-induced bone loss. <i>Annals of the Rheumatic Diseases</i> , 2016, 75, 1203-1210.	0.5	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.	3.1	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.	0.5	96
34	Quantitative Computed Tomography—Current Status and New Developments. <i>Journal of Clinical Densitometry</i> , 2017, 20, 309-321.	0.5	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.	1.4	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.	1.5	90

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37	Quantitative Computer Tomography in Children and Adolescents: The 2013 ISCD Pediatric Official Positions. <i>Journal of Clinical Densitometry</i> , 2014, 17, 258-274.	0.5	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.	0.2	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.	1.8	86
40	Interactive 3D editing tools for image segmentation. <i>Medical Image Analysis</i> , 2004, 8, 35-46.	7.0	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.	1.8	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.	1.4	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.	0.2	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.	3.1	78
46	Quality and performance measures in bone densitometry. <i>Osteoporosis International</i> , 2006, 17, 1283-1292.	1.3	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 (<sc>FROST</sc>). <i>Journal of Bone and Mineral Research</i> , 2020, 35, 1634-1644.	3.1	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.	3.1	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.	1.6	68
50	Exercise, Body Composition, and Functional Ability. <i>American Journal of Preventive Medicine</i> , 2010, 38, 279-287.	1.6	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.	3.1	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.	0.9	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.	1.2	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.	2.9	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.	1.3	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.	1.2	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.	2.3	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.	1.4	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.	3.1	58
61	Looking beyond bone mineral density. <i>Annals of the New York Academy of Sciences</i> , 2010, 1192, 45-56.	1.8	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.	1.6	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.	3.1	56
64	FEA to Measure Bone Strength: A Review. <i>Clinical Reviews in Bone and Mineral Metabolism</i> , 2016, 14, 26-37.	1.3	56
65	Universal Standardization of Forearm Bone Densitometry. <i>Journal of Bone and Mineral Research</i> , 2002, 17, 734-745.	3.1	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.	3.1	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.	1.3	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.	0.5	50
69	Advanced imaging assessment of bone fragility in glucocorticoid-induced osteoporosis. <i>Bone</i> , 2011, 48, 1221-1231.	1.4	50
70	An in vivo comparison of hip structure analysis (HSA) with measurements obtained by QCT. <i>Osteoporosis International</i> , 2012, 23, 543-551.	1.3	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.	1.2	49
72	Reanalysis precision of 3D quantitative computed tomography (QCT) of the spine. <i>Bone</i> , 2009, 44, 566-572.	1.4	48

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73	Volumetric DXA (VXA): A new method to extract 3D information from multiple in vivo DXA images. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 2744-2751.	3.1	48
74	CT imaging for the investigation of subchondral bone in knee osteoarthritis. <i>Osteoporosis International</i> , 2012, 23, 861-865.	1.3	47
75	Comparison of proximal femur and vertebral body strength improvements in the FREEDOM trial using an alternative finite element methodology. <i>Bone</i> , 2015, 81, 122-130.	1.4	47
76	An anatomic coordinate system of the femoral neck for highly reproducible BMD measurements using 3D QCT. <i>Computerized Medical Imaging and Graphics</i> , 2005, 29, 533-541.	3.5	46
77	Next-generation imaging of the skeletal system and its blood supply. <i>Nature Reviews Rheumatology</i> , 2019, 15, 533-549.	3.5	46
78	Bone status in elite male runners. <i>European Journal of Applied Physiology</i> , 2006, 96, 78-85.	1.2	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. <i>Nutrients</i> , 2020, 12, 2341.	1.7	45
80	The Erlangen fitness osteoporosis prevention study: A controlled exercise trial in early postmenopausal women with low bone density[mdash]first-year results. <i>Archives of Physical Medicine and Rehabilitation</i> , 2003, 84, 673-682.	0.5	45
81	Exercise Effects on Menopausal Risk Factors of Early Postmenopausal Women: 3-yr Erlangen Fitness Osteoporosis Prevention Study Results. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, 194-203.	0.2	43
82	Exercise and fractures in postmenopausal women: 12-year results of the Erlangen Fitness and Osteoporosis Prevention Study (EFOPS). <i>Osteoporosis International</i> , 2012, 23, 1267-1276.	1.3	43
83	Muscle density discriminates hip fracture better than computed tomography X-ray absorptiometry hip areal bone mineral density. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020, 11, 1799-1812.	2.9	42
84	Odanacatib Treatment Affects Trabecular and Cortical Bone in the Femur of Postmenopausal Women: Results of a Two-Year Placebo-Controlled Trial. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 30-38.	3.1	41
85	Whole-Body Electromyostimulation to Fight Osteopenia in Elderly Females: The Randomized Controlled Training and Electrostimulation Trial (TEST-III). <i>Journal of Osteoporosis</i> , 2015, 2015, 1-7.	0.1	41
86	Advanced Imaging of Bone Macrostructure and Microstructure in Bone Fragility and Fracture Repair. <i>Journal of Bone and Joint Surgery - Series A</i> , 2008, 90, 68-78.	1.4	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). <i>Radiology</i> , 2016, 280, 837-847.	3.6	38
88	Long-Term Exercise and Bone Mineral Density Changes in Postmenopausal Womenâ€”Are There Periods of Reduced Effectiveness?. <i>Journal of Bone and Mineral Research</i> , 2016, 31, 215-222.	3.1	38
89	Prevalence of sarcopenic obesity in Germany using established definitions. <i>Osteoporosis International</i> , 2016, 27, 275-281.	1.3	38
90	High resolution computed tomography of the vertebrae yields accurate information on trabecular distances if processed by 3D fuzzy segmentation approaches. <i>Bone</i> , 2009, 44, 145-152.	1.4	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.	3.1	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.	3.1	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.	0.8	35
94	Early Changes of the Cortical Microchannel System in the Bare Area of the Joints of Patients With Rheumatoid Arthritis. <i>Arthritis and Rheumatology</i> , 2017, 69, 1580-1587.	2.9	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.	3.1	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.	3.1	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.	0.6	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.	1.9	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.	1.3	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.	1.3	33
101	Three-dimensional structural analysis of the proximal femur in an age-stratified sample of women. <i>Bone</i> , 2013, 55, 179-188.	1.4	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.	1.6	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.	1.4	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.	0.5	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.	0.5	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.	0.7	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.	0.9	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.	3.6	29

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109	Dual X-ray absorptiometry forearm software: Accuracy and intermachine relationship. <i>Journal of Bone and Mineral Research</i> , 1994, 9, 1425-1427.	3.1	25
110	QCT of the proximal femur— which parameters should be measured to discriminate hip fracture?. <i>Osteoporosis International</i> , 2016, 27, 1137-1147.	1.3	25
111	Qualitative and Quantitative Assessment of Bone Fragility and Fracture Healing Using Conventional Radiography and Advanced Imaging Technologies-Focus on Wrist Fracture. <i>Journal of Orthopaedic Trauma</i> , 2008, 22, S83-S90.	0.7	23
112	Effect of Exercise, Body Composition, and Nutritional Intake on Bone Parameters in Male Elite Rock Climbers. <i>International Journal of Sports Medicine</i> , 2006, 27, 653-659.	0.8	21
113	A COMPARISON BETWEEN 6-POINT DIXON MRI AND MR SPECTROSCOPY TO QUANTIFY MUSCLE FAT IN THE THIGH OF SUBJECTS WITH SARCOOPENIA. <i>Journal of Frailty & Aging</i> , 2019, 8, 1-6.	0.8	21
114	Automated three-dimensional registration of high-resolution peripheral quantitative computed tomography data to quantify size and shape changes of arthritic bone erosions. <i>Rheumatology</i> , 2015, 54, kev256.	0.9	20
115	Microcracks in subchondral bone plate is linked to less cartilage damage. <i>Bone</i> , 2019, 123, 1-7.	1.4	20
116	Significance of QCT Bone Mineral Density and Its Standard Deviation as Parameters to Evaluate Osteoporosis. <i>Journal of Computer Assisted Tomography</i> , 1995, 19, 111-116.	0.5	19
117	Assessment of bone quality and strength with new technologies. <i>Current Opinion in Endocrinology, Diabetes and Obesity</i> , 2012, 19, 474-482.	1.2	19
118	Magnetic Resonance Imaging and Bioelectrical Impedance Analysis to Assess Visceral and Abdominal Adipose Tissue. <i>Obesity</i> , 2020, 28, 277-283.	1.5	19
119	Muscle density is an independent risk factor of second hip fracture: a prospective cohort study. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2022, 13, 1927-1937.	2.9	19
120	A reproducible semi-automatic method to quantify the muscle-lipid distribution in clinical 3D CT images of the thigh. <i>PLoS ONE</i> , 2017, 12, e0175174.	1.1	16
121	Automated quantitative morphometry of vertebral heights on spinal radiographs: comparison of a clinical workflow tool with standard 6-point morphometry. <i>Archives of Osteoporosis</i> , 2019, 14, 18.	1.0	15
122	Associations of Muscle Size and Density With Proximal Femur Bone in a Community Dwelling Older Population. <i>Frontiers in Endocrinology</i> , 2020, 11, 503.	1.5	15
123	Dose-efficient assessment of trabecular microstructure using ultra-high-resolution photon-counting CT. <i>Zeitschrift Fur Medizinische Physik</i> , 2022, 32, 403-416.	0.6	15
124	An Integrated Segmentation and Analysis Approach for QCT of the Knee to Determine Subchondral Bone Mineral Density and Texture. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 2449-2458.	2.5	14
125	Cartilage morphology assessed by high resolution micro-computed tomography in non OA knees. <i>Osteoarthritis and Cartilage</i> , 2016, 24, 567-571.	0.6	14
126	QCT of the femur: Comparison between QCTPro CTXA and MIAF Femur. <i>Bone</i> , 2019, 120, 262-270.	1.4	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.	1.3	14
128	RSK2 protects mice against TNF-induced bone loss. <i>Journal of Cell Science</i> , 2012, 125, 2160-71.	1.2	13
129	A low-radiation exposure protocol for 3D QCT of the spine. <i>Osteoporosis International</i> , 2014, 25, 983-992.	1.3	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.	1.1	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.	2.1	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.	3.1	12
133	Stereolithographic models simulating trabecular bone and their characterization by thin-slice- and micro-CT. <i>European Radiology</i> , 2001, 11, 2026-2040.	2.3	12
134	Quality and performance measures in bone densitometry. <i>Osteoporosis International</i> , 2006, 17, 1449-1458.	1.3	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.	0.8	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.	1.2	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.	1.1	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.	1.4	12
139	BMD accuracy errors specific to phantomless calibration of CT scans of the lumbar spine. <i>Bone</i> , 2022, 157, 116304.	1.4	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.	1.3	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.	1.1	10
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