Klaus Engelke

List of Publications by Year
in descending order

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180	11,216	25034	32842
papers	citations	57 h-index	100 g-index

188	188	188	9814
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	BMD accuracy errors specific to phantomless calibration of CT scans of the lumbar spine. Bone, 2022, 157, 116304.	2.9	11
2	In memoriam â€“ Harry K Genant, MD. Bone, 2022, 157, 116326.	2.9	0
3	Differences in Hip Geometry Between Female Subjects With and Without Acute Hip Fracture: A Cross-Sectional Case-Control Study. Frontiers in Endocrinology, 2022, 13, 799381.	3.5	1
4	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
5	Dose-efficient assessment of trabecular microstructure using ultra-high-resolution photon-counting CT. Zeitschrift Fur Medizinische Physik, 2022, 32, 403-416.	1.5	15
6	The effect of ageing on fat infiltration of thigh and paraspinal muscles in men. Aging Clinical and Experimental Research, 2022, 34, 2089-2098.	2.9	12
7	Muscle Density, but Not Size, Correlates Well With Muscle Strength and Physical Performance. Journal of the American Medical Directors Association, 2021, 22, 751-759.e2.	2.5	61
8	Segmentation of the fascia lata and reproducible quantification of intermuscular adipose tissue (IMAT) of the thigh. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 367-376.	2.0	10
9	Reliability and Change in Erosion Measurements by High-resolution Peripheral Quantitative Computed Tomography in a Longitudinal Dataset of Rheumatoid Arthritis Patients. Journal of Rheumatology, 2021, 48, 348-351.	2.0	6
10	Segmentation of the Fascia Lata in Magnetic Resonance Images of the Thigh. Informatik Aktuell, 2021, , 98-103.	0.6	0
11	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
12	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.	1.1	2
13	The clinical application of high-resolution peripheral computed tomography (HR-pQCT) in adults: state of the art and future directions. Osteoporosis International, 2021, 32, 1465-1485.	3.1	51
14	Detraining Effects on Muscle Quality in Older Men with Osteosarcopenia. Follow-Up of the Randomized Controlled Franconian Osteopenia and Sarcopenia Trial (FrOST). Nutrients, 2021, 13, 1528.	4.1	6
15	Once Weekly Whole-Body Electromyostimulation Enhances Muscle Quality in Men: Data of the Randomized Controlled Franconian Electromyostimulation and Golf Study. Frontiers in Physiology, 2021, 12, 700423.	2.8	3
16	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. Journal of Bone and Mineral Research, 2021, 36, 2139-2152.	2.8	35
17	Effects of 16Âmonths of high intensity resistance training on thigh muscle fat infiltration in elderly men with osteosarcopenia. GeroScience, 2021, 43, 607-617.	4.6	13
18	CT Imaging: Basics and New Trends. , 2021, , 1173-1215.		0

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19	Hyperglycemia Is Not Associated With Higher Volumetric BMD in a Chinese Health Check-up Cohort. Frontiers in Endocrinology, 2021, 12, 794066.	3.5	2
20	Macroimaging. , 2020, , 1857-1886.		1
21	Magnetic Resonance Imaging and Bioelectrical Impedance Analysis to Assess Visceral and Abdominal Adipose Tissue. Obesity, 2020, 28, 277-283.	3.0	19
22	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
23	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
24	Lack of periosteal apposition in the head and neck of femur after menopause in Chinese women with high risk for hip fractures â€" A cross-sectional study with QCT. Bone, 2020, 139, 115545.	2.9	5
25	Muscle density discriminates hip fracture better than computed tomography Xâ€ray absorptiometry hip areal bone mineral density. Journal of Cachexia, Sarcopenia and Muscle, 2020, 11, 1799-1812.	7.3	42
26	Effects of High-Intensity Resistance Training on Fitness and Fatness in Older Men With Osteosarcopenia. Frontiers in Physiology, 2020, 11, 1014.	2.8	14
27	A new method for quantitative assessment of hand muscle volume and fat in magnetic resonance images. BMC Rheumatology, 2020, 4, 72.	1.6	3
28	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
29	A degenerative medial meniscus retains some protective effect against osteoarthritis-induced subchondral bone changes. Bone Reports, 2020, 12, 100271.	0.4	3
30	Interactions between Muscle and Boneâ€"Where Physics Meets Biology. Biomolecules, 2020, 10, 432.	4.0	79
31	Impact of meniscal coverage on subchondral bone mineral density of the proximal tibia in female subjects â€" A cross-sectional in vivo study using QCT. Bone, 2020, 134, 115292.	2.9	4
32	Effects of Highâ€Intensity Resistance Training on Osteopenia and Sarcopenia Parameters in Older Men with Osteosarcopeniaâ€"Oneâ€Year Results of the Randomized Controlled Franconian Osteopenia and Sarcopenia Trial (<scp>FrOST</scp>). Journal of Bone and Mineral Research, 2020, 35, 1634-1644.	2.8	71
33	Opportunistic Screening Using Low-Dose CT and the Prevalence of Osteoporosis in China: A Nationwide, Multicenter Study. Journal of Bone and Mineral Research, 2020, 36, 427-435.	2.8	109
34	CT Imaging: Basics and New Trends. , 2020, , 1-43.		0
35	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.	2.8	6
36	In Memoriam â€" Harry K. Genant, MD. Journal of Bone and Mineral Research, 2020, 37, 819-823.	2.8	0

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37	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
38	Next-generation imaging of the skeletal system and its blood supply. Nature Reviews Rheumatology, 2019, 15, 533-549.	8.0	46
39	Impact of reference point selection on DXA-based measurement of forearm bone mineral density. Archives of Osteoporosis, 2019, 14, 107.	2.4	4
40	Letter to the Editor. British Journal of Radiology, 2019, 92, 20190115.	2.2	5
41	Microcracks in subchondral bone plate is linked to less cartilage damage. Bone, 2019, 123, 1-7.	2.9	20
42	Feasibility of Dixon magnetic resonance imaging to quantify effects of physical training on muscle compositionâ€"A pilot study in young and healthy men. European Journal of Radiology, 2019, 114, 160-166.	2.6	12
43	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
44	X-Ray Based Imaging Methods to Assess Bone Quality. , 2019, , 102-115.		0
45	Three-dimensional Distribution of Muscle and Adipose Tissue of the Thigh at CT: Association with Acute Hip Fracture. Radiology, 2019, 290, 426-434.	7.3	29
46	QCT of the femur: Comparison between QCTPro CTXA and MIAF Femur. Bone, 2019, 120, 262-270.	2.9	14
47	Biomechanical properties of bone are impaired in patients with ACPA-positive rheumatoid arthritis and associated with the occurrence of fractures. Annals of the Rheumatic Diseases, 2018, 77, 973-980.	0.9	31
48	Evaluation of 2-point, 3-point, and 6-point Dixon magnetic resonance imaging with flexible echo timing for muscle fat quantification. European Journal of Radiology, 2018, 103, 57-64.	2.6	64
49	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
50	Methods for segmentation of rheumatoid arthritis bone erosions in high-resolution peripheral quantitative computed tomography (HR-pQCT). Seminars in Arthritis and Rheumatism, 2018, 47, 611-618.	3.4	32
51	The authors reply: Letter on: â€œPitfalls in the measurement of muscle mass: a need for a reference standardâ€•by Clark et al.. Journal of Cachexia, Sarcopenia and Muscle, 2018, 9, 1272-1274.	7.3	9
52	Quantitative analysis of skeletal muscle by computed tomography imagingâ€"State of the art. Journal of Orthopaedic Translation, 2018, 15, 91-103.	3.9	118
53	Repeatability of Dixon magnetic resonance imaging and magnetic resonance spectroscopy for quantitative muscle fat assessments in the thigh. Journal of Cachexia, Sarcopenia and Muscle, 2018, 9, 1093-1100.	7.3	62
54	The Authors reply: â€œDual energy Xâ€ray absorptiometry: gold standard for muscle mass?â€•by Scafoglieri et al.. Journal of Cachexia, Sarcopenia and Muscle, 2018, 9, 788-790.	7.3	3

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55	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. Arthritis Research and Therapy, 2017, 19, 1.	3.5	68
56	Accuracy of bone mineral density quantification using dual-layer spectral detector CT: a phantom study. European Radiology, 2017, 27, 4351-4359.	4.5	60
57	Early Changes of the Cortical Microâ€Channel System in the Bare Area of the Joints of Patients With Rheumatoid Arthritis. Arthritis and Rheumatology, 2017, 69, 1580-1587.	5.6	35
58	Greater Gains in Spine and Hip Strength for Romosozumab Compared With Teriparatide in Postmenopausal Women With Low Bone Mass. Journal of Bone and Mineral Research, 2017, 32, 1956-1962.	2.8	70
59	Quantitative Computed Tomographyâ€"Current Status and New Developments. Journal of Clinical Densitometry, 2017, 20, 309-321.	1.2	95
60	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
61	Age- and Sex-Dependent Changes of Intra-articular Cortical and Trabecular Bone Structure and the Effects of Rheumatoid Arthritis. Journal of Bone and Mineral Research, 2017, 32, 722-730.	2.8	35
62	Effects of Romosozumab Compared With Teriparatide on Bone Density and Mass at the Spine and Hip in Postmenopausal Women With Low Bone Mass. Journal of Bone and Mineral Research, 2017, 32, 181-187.	2.8	98
63	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
64	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. PLoS ONE, 2017, 12, e0187097.	2.5	13
65	Influence of meniscus on cartilage and subchondral bone features of knees from older individuals: A cadaver study. PLoS ONE, 2017, 12, e0181956.	2.5	12
66	Cartilage morphology assessed by high resolution micro-computed tomography in non OA knees. Osteoarthritis and Cartilage, 2016, 24, 567-571.	1.3	14
67	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
68	Cortical Bone Thickness Estimation in CT Images: A Model-Based Approach Without Profile Fitting. Lecture Notes in Computer Science, 2016, , 64-73.	1.3	1
69	SAT0543â€…Accurate Determination of Periarticular Bone Composition in Healthy Individuals and Comparison To Acpa-Positive Rheumatoid Arthritis Patients. Annals of the Rheumatic Diseases, 2016, 75, 865.3-866.	0.9	0
70	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
71	FEA to Measure Bone Strength: A Review. Clinical Reviews in Bone and Mineral Metabolism, 2016, 14, 26-37.	0.8	56
72	Prevalence of sarcopenic obesity in Germany using established definitions. Osteoporosis International, 2016, 27, 275-281.	3.1	38

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73	QCT of the proximal femurâ€"which parameters should be measured to discriminate hip fracture?. Osteoporosis International, 2016, 27, 1137-1147.	3.1	25
74	Inactivation of autophagy ameliorates glucocorticoid-induced and ovariectomy-induced bone loss. Annals of the Rheumatic Diseases, 2016, 75, 1203-1210.	0.9	98
75	AB0938â€…A Comparison of Two Methods To Segment Bone Erosions in The Metacarpophalangeal Joints of Rheumatoid Arthritis Patients. Annals of the Rheumatic Diseases, 2016, 75, 1222.2-1222.	0.9	0
76	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
77	Quantitative and Qualitative Changes of Bone in Psoriasis and Psoriatic Arthritis Patients. Journal of Bone and Mineral Research, 2015, 30, 1775-1783.	2.8	58
78	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
79	Clinical Use of Quantitative Computed Tomography (QCT) of the Hip in the Management of Osteoporosis in Adults: the 2015 ISCD Official Positionsâ€"Part I. Journal of Clinical Densitometry, 2015, 18, 338-358.	1.2	96
80	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
81	Clinical Use of Quantitative Computed Tomographyâ€"Based Advanced Techniques in the Management of Osteoporosis in Adults: the 2015 ISCD Official Positionsâ€"Part III. Journal of Clinical Densitometry, 2015, 18, 393-407.	1.2	102
82	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
83	Clinical Use of Quantitative Computed Tomographyâ€"Based Finite Element Analysis of the Hip and Spine in the Management of Osteoporosis in Adults: the 2015 ISCD Official Positionsâ€"Part II. Journal of Clinical Densitometry, 2015, 18, 359-392.	1.2	109
84	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
85	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
86	A Digital Model to Simulate Effects of Bone Architecture Variations on Texture at Spatial Resolutions of CT, HR-pQCT, and Î¼CT Scanners. Journal of Medical Engineering, 2014, 2014, 1-13.	1.1	5
87	Characterization and quantification of angiogenesis in rheumatoid arthritis in a mouse model using Î¼CT. BMC Musculoskeletal Disorders, 2014, 15, 298.	1.9	12
88	Characterization of knee osteoarthritis-related changes in trabecular bone using texture parameters at various levels of spatial resolutionâ€"a simulation study. BoneKEy Reports, 2014, 3, 615.	2.7	5
89	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
90	The Effect of the Cathepsin K Inhibitor ONO-5334 on Trabecular and Cortical Bone in Postmenopausal Osteoporosis: The OCEAN Study. Journal of Bone and Mineral Research, 2014, 29, 629-638.	2.8	36

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91	Femoral and Vertebral Strength Improvements in Postmenopausal Women With Osteoporosis Treated With Denosumab. Journal of Bone and Mineral Research, 2014, 29, 158-165.	2.8	98
92	Impact of whole-body electromyostimulation on body composition in elderly women at risk for sarcopenia: the Training and ElectroStimulation Trial (TEST-III). Age, 2014, 36, 395-406.	3.0	82
93	Accuracy of trabecular structure by HR-pQCT compared to gold standard Î¼CT in the radius and tibia of patients with osteoporosis and long-term bisphosphonate therapy. Osteoporosis International, 2014, 25, 1595-1606.	3.1	33
94	A low-radiation exposure protocol for 3D QCT of the spine. Osteoporosis International, 2014, 25, 983-992.	3.1	13
95	Segmentation and quantification of bone erosions in high-resolution peripheral quantitative computed tomography datasets of the metacarpophalangeal joints of patients with rheumatoid arthritis. Rheumatology, 2014, 53, 65-71.	1.9	65
96	Decreased Quantity and Quality of the Periarticular and Nonperiarticular Bone in Patients With Rheumatoid Arthritis: A Cross-Sectional HR-pQCT Study. Journal of Bone and Mineral Research, 2014, 29, 1005-1014.	2.8	56
97	Differences in bone structure between rheumatoid arthritis and psoriatic arthritis patients relative to autoantibody positivity. Annals of the Rheumatic Diseases, 2014, 73, 2022-2028.	0.9	31
98	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
99	Finite element analyses of human vertebral bodies embedded in polymethylmethalcrylate or loaded via the hyperelastic intervertebral disc models provide equivalent predictions of experimental strength. Journal of Biomechanics, 2014, 47, 2512-2516.	2.1	29
100	Quantitative Computer Tomography in Children and Adolescents: The 2013 ISCD Pediatric Official Positions. Journal of Clinical Densitometry, 2014, 17, 258-274.	1.2	89
101	Influence of 3D QCT scan protocol on the QCT-based finite element models of human vertebral cancellous bone. Medical Engineering and Physics, 2014, 36, 1069-1073.	1.7	8
102	Effect of blockâ€periodized exercise training on bone and coronary heart disease risk factors in early postâ€menopausal women: a randomized controlled study. Scandinavian Journal of Medicine and Science in Sports, 2013, 23, 121-129.	2.9	33
103	Advanced CT based In Vivo Methods for the Assessment of Bone Density, Structure, and Strength. Current Osteoporosis Reports, 2013, 11, 246-255.	3.6	90
104	Improvements in hip trabecular, subcortical, and cortical density and mass in postmenopausal women with osteoporosis treated with denosumab. Bone, 2013, 56, 482-488.	2.9	59
105	Interleukin-6 receptor blockade induces limited repair of bone erosions in rheumatoid arthritis: a micro CT study. Annals of the Rheumatic Diseases, 2013, 72, 396-400.	0.9	98
106	Quantitative ultrasound of cortical bone in the femoral neck predicts femur strength: Results of a pilot study. Journal of Bone and Mineral Research, 2013, 28, 302-312.	2.8	36
107	Bone marrow lesions identified by MRI in knee osteoarthritis are associated withÂlocally increased bone mineral density measured by QCT. Osteoarthritis and Cartilage, 2013, 21, 957-964.	1.3	34
108	Bone Density, Turnover, and Estimated Strength in Postmenopausal Women Treated With Odanacatib: A Randomized Trial. Journal of Clinical Endocrinology and Metabolism, 2013, 98, 571-580.	3.6	119

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109	Three-dimensional structural analysis of the proximal femur in an age-stratified sample of women. Bone, 2013, 55, 179-188.	2.9	32
110	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.	2.8	98
111	Impact of Segmentation in Quantitative Computed Tomography. Informatik Aktuell, 2013, , 158-163.	0.6	1
112	FRI0481â€...Anti- citrullinated protein antibodies but not rheumatoid factor are associated with larger bone erosions in ra patients- a cross-sectional hr-pqct study. Annals of the Rheumatic Diseases, 2013, 72, A537.3-A538.	0.9	0
113	Assessment of bone quality and strength with new technologies. Current Opinion in Endocrinology, Diabetes and Obesity, 2012, 19, 474-482.	2.3	19
114	RSK2 protects mice against TNF-induced bone loss. Journal of Cell Science, 2012, 125, 2160-71.	2.0	13
115	Short-term in vivo precision of BMD and parameters of trabecular architecture at the distal forearm and tibia. Osteoporosis International, 2012, 23, 2151-2158.	3.1	61
116	CT imaging for the investigation of subchondral bone in knee osteoarthritis. Osteoporosis International, 2012, 23, 861-865.	3.1	47
117	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
118	Ronacaleret, a calcium-sensing receptor antagonist, increases trabecular but not cortical bone in postmenopausal women. Journal of Bone and Mineral Research, 2012, 27, 255-262.	2.8	53
119	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
120	An in vivo comparison of hip structure analysis (HSA) with measurements obtained by QCT. Osteoporosis International, 2012, 23, 543-551.	3.1	50
121	CT Imaging: Basics and New Trends. , 2012, , 883-915.		3
122	Advanced imaging assessment of bone fragility in glucocorticoid-induced osteoporosis. Bone, 2011, 48, 1221-1231.	2.9	50
123	Effects of Whole-Body Vibration Training on Different Devices on Bone Mineral Density. Medicine and Science in Sports and Exercise, 2011, 43, 1071-1079.	0.4	78
124	In vivo discrimination of hip fracture with quantitative computed tomography: Results from the prospective European Femur Fracture Study (EFFECT). Journal of Bone and Mineral Research, 2011, 26, 881-893.	2.8	78
125	Repair of bone erosions in rheumatoid arthritis treated with tumour necrosis factor inhibitors is based on bone apposition at the base of the erosion. Annals of the Rheumatic Diseases, 2011, 70, 1587-1593.	0.9	102
126	A comparative study of periarticular bone lesions in rheumatoid arthritis and psoriatic arthritis. Annals of the Rheumatic Diseases, 2011, 70, 122-127.	0.9	121

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127	Effect of exercise and Cimicifuga racemosa (CR BNO 1055) on bone mineral density, 10-year coronary heart disease risk, and menopausal complaints. Menopause, 2010, 17, 791-800.	2.0	35
128	Binary Segmentation Masks Can Improve Intrasubject Registration Accuracy of Bone Structures in CT Images. Annals of Biomedical Engineering, 2010, 38, 2464-2472.	2.5	10
129	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
130	Periarticular bone structure in rheumatoid arthritis patients and healthy individuals assessed by highâ€resolution computed tomography. Arthritis and Rheumatism, 2010, 62, 330-339.	6.7	153
131	Looking beyond bone mineral density. Annals of the New York Academy of Sciences, 2010, 1192, 45-56.	3.8	57
132	Potential of First Arriving Signal to Assess Cortical Bone Geometry at the Hip with QUS: A Model Based Study. Ultrasound in Medicine and Biology, 2010, 36, 656-666.	1.5	29
133	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
134	Comparison of anatomic coordinate systems with rigid multi-resolution 3D registration for the reproducible positioning of analysis volumes of interest in QCT. Physics in Medicine and Biology, 2010, 55, 1429-1439.	3.0	2
135	Regulatory T Cells Protect from Local and Systemic Bone Destruction in Arthritis. Journal of Immunology, 2010, 184, 7238-7246.	0.8	184
136	Regional distribution of spine and hip QCT BMD responses after one year of once-monthly ibandronate in postmenopausal osteoporosis. Bone, 2010, 46, 1626-1632.	2.9	31
137	Denosumab improves density and strength parameters as measured by QCT of the radius in postmenopausal women with low bone mineral density. Bone, 2010, 47, 131-139.	2.9	78
138	Exercise, Body Composition, and Functional Ability. American Journal of Preventive Medicine, 2010, 38, 279-287.	3.0	66
139	Once-Monthly Oral Ibandronate Improves Biomechanical Determinants of Bone Strength in Women with Postmenopausal Osteoporosis. Journal of Clinical Endocrinology and Metabolism, 2009, 94, 171-180.	3.6	86
140	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
141	Reanalysis precision of 3D quantitative computed tomography (QCT) of the spine. Bone, 2009, 44, 566-572.	2.9	48
142	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). Bone, 2009, 45, 110-118.	2.9	93
143	Report 81. Journal of the ICRU, 2009, 9, NP.1-NP.	15.5	1
144	Binary Segmentation Masks for Registration of Bone Structures in CT Images. Informatik Aktuell, 2009, , 112-116.	0.6	0

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145	Macro- and Microimaging of Bone Architecture. , 2008, , 1905-1942.		3
146	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
147	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
148	Advanced CT bone imaging in osteoporosis. Rheumatology, 2008, 47, iv9-iv16.	1.9	138
149	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
150	Differential effects of strength versus power training on bone mineral density in postmenopausal women: a 2-year longitudinal study. British Journal of Sports Medicine, 2007, 41, 649-655.	6.7	65
151	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
152	Bone status in elite male runners. European Journal of Applied Physiology, 2006, 96, 78-85.	2.5	45
153	Quality and performance measures in bone densitometry. Osteoporosis International, 2006, 17, 1449-1458.	3.1	12
154	Quality and performance measures in bone densitometry. Osteoporosis International, 2006, 17, 1283-1292.	3.1	77
155	Exercise maintains bone density at spine and hip EFOPS: a 3-year longitudinal study in early postmenopausal women. Osteoporosis International, 2006, 17, 133-142.	3.1	131
156	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
157	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
158	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
159	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
160	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
161	Interactive 3D editing tools for image segmentation. Medical Image Analysis, 2004, 8, 35-46.	11.6	82
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