Jan S Kirschke

List of Publications by Year
in descending order

295 papers	8,008 citations	50170 46 h-index	91712 69 g-index
303 all docs	303 docs citations	303 times ranked	8711 citing authors

#	Article	IF	Citations
1	ISLES 2015 - A public evaluation benchmark for ischemic stroke lesion segmentation from multispectral MRI. Medical Image Analysis, 2017, 35, 250-269.	7.0	360
2	Five Freely Circulating miRNAs and Bone Tissue miRNAs Are Associated With Osteoporotic Fractures. Journal of Bone and Mineral Research, 2014, 29, 1718-1728.	3.1	292
3	Cartilage and meniscal T2 relaxation time as non-invasive biomarker for knee osteoarthritis and cartilage repair procedures. Osteoarthritis and Cartilage, 2013, 21, 1474-1484.	0.6	159
4	Inter-subject comparison of MRI knee cartilage thickness. Medical Image Analysis, 2008, 12, 120-135.	7.0	127
5	Advances in osteoporosis imaging. European Journal of Radiology, 2009, 71, 440-449.	1.2	127
6	Bone marrow fat quantification in the presence of trabecular bone: Initial comparison between water–fat imaging and single–voxel MRS. Magnetic Resonance in Medicine, 2014, 71, 1158-1165.	1.9	127
7	Risk of cement leakage and pulmonary embolism by bone cement-augmented pedicle screw fixation of the thoracolumbar spine. Spine Journal, 2017, 17, 837-844.	0.6	116
8	VerSe: A Vertebrae labelling and segmentation benchmark for multi-detector CT images. Medical Image Analysis, 2021, 73, 102166.	7.0	112
9	Cortical pathology in multiple sclerosis detected by the <scp>T</scp>1/<scp>T</scp>2–weighted ratio from routine magnetic resonance imaging. Annals of Neurology, 2017, 82, 519-529.	2.8	102
10	Trabecular Bone Structure of the Calcaneus: Comparison of MR Imaging at 3.0 and 1.5 T with Micro-CT as the Standard of Reference. Radiology, 2006, 239, 488-496.	3.6	101
11	Improved prediction of incident vertebral fractures using opportunistic QCT compared to DXA. European Radiology, 2019, 29, 4980-4989.	2.3	99
12	miRNAs in bone tissue correlate to bone mineral density and circulating miRNAs are gender independent in osteoporotic patients. Scientific Reports, 2017, 7, 15861.	1.6	96
13	Volumetric Quantitative CT of the Spine and Hip Derived from Contrast-Enhanced MDCT: Conversion Factors. American Journal of Roentgenology, 2007, 188, 1294-1301.	1.0	95
14	Radiolucent Carbon Fiber–Reinforced Pedicle Screws for Treatment of Spinal Tumors: Advantages for Radiation Planning and Follow-Up Imaging. World Neurosurgery, 2017, 105, 294-301.	0.7	93
15	In Vitro and in Vivo Spiral CT to Determine Bone Mineral Density: Initial Experience in Patients at Risk for Osteoporosis. Radiology, 2004, 231, 805-811.	3.6	87
16	MR imaging of the ankle at 3 Tesla and 1.5 Tesla: protocol optimization and application to cartilage, ligament and tendon pathology in cadaver specimens. European Radiology, 2007, 17, 1518-1528.	2.3	87
17	DeepVesselNet: Vessel Segmentation, Centerline Prediction, and Bifurcation Detection in 3-D Angiographic Volumes. Frontiers in Neuroscience, 2020, 14, 592352.	1.4	83
18	Structural Analysis of Trabecular Bone of the Proximal Femur Using Multislice Computed Tomography: A Comparison with Dual X-Ray Absorptiometry for Predicting Biomechanical Strength In Vitro. Calcified Tissue International, 2006, 78, 78-89.	1.5	82

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19	Assessment of whole spine vertebral bone marrow fat using chemical shift–encoding based water–fat MRI. Journal of Magnetic Resonance Imaging, 2015, 42, 1018-1023.	1.9	82
20	Revision Rate of Misplaced Pedicle Screws of the Thoracolumbar Spine–Comparison of Three-Dimensional Fluoroscopy Navigation with Freehand Placement: A Systematic Analysis and Review of the Literature. World Neurosurgery, 2018, 109, e24-e32.	0.7	82
21	Bone Mineral Density Values Derived from Routine Lumbar Spine Multidetector Row CT Predict Osteoporotic Vertebral Fractures and Screw Loosening. American Journal of Neuroradiology, 2014, 35, 1628-1633.	1.2	74
22	Opportunistic osteoporosis screening in multi-detector CT images via local classification of textures. Osteoporosis International, 2019, 30, 1275-1285.	1.3	72
23	A Vertebral Segmentation Dataset with Fracture Grading. Radiology: Artificial Intelligence, 2020, 2, e190138.	3.0	71
24	MR-Based Assessment of Bone Marrow Fat in Osteoporosis, Diabetes, and Obesity. Frontiers in Endocrinology, 2016, 7, 74.	1.5	70
25	MR-based assessment of body fat distribution and characteristics. European Journal of Radiology, 2016, 85, 1512-1518.	1.2	68
26	X-ray-based quantitative osteoporosis imaging at the spine. Osteoporosis International, 2020, 31, 233-250.	1.3	68
27	Association of paraspinal muscle water–fat MRI-based measurements with isometric strength measurements. European Radiology, 2019, 29, 599-608.	2.3	66
28	Detection of osteoporotic vertebral fractures using multidetector CT. Osteoporosis International, 2006, 17, 608-615.	1.3	65
29	Anatomical Variation of Age-Related Changes in Vertebral Bone Marrow Composition Using Chemical Shift Encoding-Based Water–Fat Magnetic Resonance Imaging. Frontiers in Endocrinology, 2018, 9, 141.	1.5	65
30	<scp>MRI</scp>–Based Quantitative Osteoporosis Imaging at the Spine and Femur. Journal of Magnetic Resonance Imaging, 2021, 54, 12-35.	1.9	61
31	Significance of sagittal reformations in routine thoracic and abdominal multislice CT studies for detecting osteoporotic fractures and other spine abnormalities. European Radiology, 2008, 18, 1696-1702.	2.3	60
32	Associations between clinical outcome and navigated transcranial magnetic stimulation characteristics in patients with motor-eloquent brain lesions: a combined navigated transcranial magnetic stimulation–diffusion tensor imaging fiber tracking approach. Journal of Neurosurgery, 2018, 128, 800-810.	0.9	60
33	Automated segmentation of changes in FLAIR-hyperintense white matter lesions in multiple sclerosis on serial magnetic resonance imaging. NeuroImage: Clinical, 2019, 23, 101849.	1.4	60
34	Diffusion tensor image features predict IDH genotype in newly diagnosed WHO grade II/III gliomas. Scientific Reports, 2017, 7, 13396.	1.6	57
35	BMD measurements of the spine derived from sagittal reformations of contrast-enhanced MDCT without dedicated software. European Journal of Radiology, 2011, 80, e140-e145.	1.2	55
36	Bisphosphonate and Medication-Related Osteonecrosis of the Jaw: A Review. Seminars in Musculoskeletal Radiology, 2016, 20, 305-314.	0.4	54

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37	Converted Lumbar BMD Values Derived from Sagittal Reformations of Contrast-Enhanced MDCT Predict Incidental Osteoporotic Vertebral Fractures. Calcified Tissue International, 2012, 90, 481-487.	1.5	53
38	Volume versus surface-based cortical thickness measurements: A comparative study with healthy controls and multiple sclerosis patients. PLoS ONE, 2017, 12, e0179590.	1.1	53
39	Trabecular Bone Structure of the Distal Radius, the Calcaneus, and the Spine. Investigative Radiology, 2004, 39, 487-497.	3.5	52
40	The need for T_2 correction on MRS-based vertebral bone marrow fat quantification: implications for bone marrow fat fraction age dependence. NMR in Biomedicine, 2015, 28, 432-439.	1.6	52
41	MR–detected changes in liver fat, abdominal fat, and vertebral bone marrow fat after a four–week calorie restriction in obese women. Journal of Magnetic Resonance Imaging, 2015, 42, 1272-1280.	1.9	51
42	Combined Image Processing Techniques for Characterization of MRI Cartilage of the Knee. , 2005, 2005, 3043-6.		50
43	BraTS Toolkit: Translating BraTS Brain Tumor Segmentation Algorithms Into Clinical and Scientific Practice. Frontiers in Neuroscience, 2020, 14, 125.	1.4	50
44	Automatic opportunistic osteoporosis screening in routine CT: improved prediction of patients with prevalent vertebral fractures compared to DXA. European Radiology, 2021, 31, 6069-6077.	2.3	50
45	T2 assessment and clinical outcome following autologous matrix-assisted chondrocyte and osteochondral autograft transplantation. Osteoarthritis and Cartilage, 2009, 17, 1576-1582.	0.6	49
46	Relaxation effects of ferucarbotran–labeled mesenchymal stem cells at 1.5T and 3T: Discrimination of viable from lysed cells. Magnetic Resonance in Medicine, 2009, 62, 325-332.	1.9	48
47	Sonographic assessment of abdominal fat distribution during the first year of infancy. Pediatric Research, 2015, 78, 342-350.	1.1	48
48	Retrospective Analysis of Radiological Recurrence Patterns in Glioblastoma, Their Prognostic Value And Association to Postoperative Infarct Volume. Scientific Reports, 2018, 8, 4561.	1.6	48
49	Cell labeling with the positive MR contrast agent Gadofluorine M. European Radiology, 2007, 17, 1226-1234.	2.3	47
50	Magnetic Resonance Imaging of the Ankle at 3.0 Tesla and 1.5 Tesla in Human Cadaver Specimens With Artificially Created Lesions of Cartilage and Ligaments. Investigative Radiology, 2008, 43, 604-611.	3.5	47
51	Is multidetector CT-based bone mineral density and quantitative bone microstructure assessment at the spine still feasible using ultra-low tube current and sparse sampling?. European Radiology, 2017, 27, 5261-5271.	2.3	47
52	Analysis of Trabecular Bone Structure with Multidetector Spiral Computed Tomography in a Simulated Soft-Tissue Environment. Calcified Tissue International, 2007, 80, 366-373.	1.5	46
53	Cartilage Repair Surgery: Outcome Evaluation by Using Noninvasive Cartilage Biomarkers Based on Quantitative MRI Techniques?. BioMed Research International, 2014, 2014, 1-17.	0.9	46
54	Modeling of T_2* decay in vertebral bone marrow fat quantification. NMR in Biomedicine, 2015, 28, 1535-1542.	1.6	46

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55	Bone mineral density measurements derived from dual-layer spectral CT enable opportunistic screening for osteoporosis. European Radiology, 2019, 29, 6355-6363.	2.3	46
56	Accuracy of Unenhanced MRI in the Detection of New Brain Lesions in Multiple Sclerosis. Radiology, 2019, 291, 429-435.	3.6	46
57	Proximal Femur Specimens: Automated 3D Trabecular Bone Mineral Density Analysis at Multidetector CT—Correlation with Biomechanical Strength Measurement. Radiology, 2008, 247, 472-481.	3.6	45
58	MR arthrography including abduction and external rotation images in the assessment of atraumatic multidirectional instability of the shoulder. European Radiology, 2014, 24, 1376-1385.	2.3	42
59	Language pathway tracking: comparing nTMS-based DTI fiber tracking with a cubic ROIs-based protocol. Journal of Neurosurgery, 2017, 126, 1006-1014.	0.9	42
60	Associations Between Lumbar Vertebral Bone Marrow and Paraspinal Muscle Fat Compositions—An Investigation by Chemical Shift Encoding-Based Water-Fat MRI. Frontiers in Endocrinology, 2018, 9, 563.	1.5	39
61	Diagnostic Value of CT Arthrography for Evaluation of Osteochondral Lesions at the Ankle. BioMed Research International, 2016, 2016, 1-11.	0.9	38
62	Visualization of subcortical language pathways by diffusion tensor imaging fiber tracking based on rTMS language mapping. Brain Imaging and Behavior, 2017, 11, 899-914.	1.1	38
63	Robust and parallel scalable iterative solutions for large-scale finite cell analyses. Finite Elements in Analysis and Design, 2019, 163, 14-30.	1.7	37
64	Btrfly Net: Vertebrae Labelling with Energy-Based Adversarial Learning of Local Spine Prior. Lecture Notes in Computer Science, 2018, , 649-657.	1.0	37
65	Fast High-Spatial-Resolution MRI of the Ankle with Parallel Imaging Using GRAPPA at 3 T. American Journal of Roentgenology, 2007, 189, 240-245.	1.0	36
66	Prediction of bone strength by μCT and MDCT-based finite-element-models: How much spatial resolution is needed?. European Journal of Radiology, 2014, 83, e36-e42.	1.2	36
67	Association of MRS-Based Vertebral Bone Marrow Fat Fraction with Bone Strength in a Human In Vitro Model. Journal of Osteoporosis, 2015, 2015, 1-8.	0.1	36
68	Feasibility of nTMS-based DTI fiber tracking of language pathways in neurosurgical patients using a fractional anisotropy threshold. Journal of Neuroscience Methods, 2016, 267, 45-54.	1.3	36
69	Fatigue in multiple sclerosis: Associations with clinical, MRI and CSF parameters. Multiple Sclerosis Journal, 2018, 24, 1115-1125.	1.4	36
70	DiamondGAN: Unified Multi-modal Generative Adversarial Networks for MRI Sequences Synthesis. Lecture Notes in Computer Science, 2019, , 795-803.	1.0	36
71	CT-like images based on T1 spoiled gradient-echo and ultra-short echo time MRI sequences for the assessment of vertebral fractures and degenerative bone changes of the spine. European Radiology, 2021, 31, 4680-4689.	2.3	35
72	Volumetric Cartilage Measurements of Porcine Knee at 1.5-T and 3.0-T MR Imaging: Evaluation of Precision and Accuracy. Radiology, 2006, 241, 399-406.	3.6	34

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73	Double Inversion Recovery Sequence of the Cervical Spinal Cord in Multiple Sclerosis and Related Inflammatory Diseases. American Journal of Neuroradiology, 2015, 36, 219-225.	1.2	34
74	Prognostic Value of O-(2-[18F]-Fluoroethyl)-L-Tyrosine-Positron Emission Tomography Imaging for Histopathologic Characteristics and Progression-Free Survival in Patients with Low-Grade Glioma. World Neurosurgery, 2016, 89, 230-239.	0.7	34
75	MR and CT Imaging to Optimize CT-Guided Biopsies in Suspected Spondylodiscitis. World Neurosurgery, 2017, 99, 726-734.e7.	0.7	34
76	Phase–field boundary conditions for the voxel finite cell method: Surface–free stress analysis of CT–based bone structures. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e2880.	1.0	33
77	Local Fractional Anisotropy Is Reduced in Areas with Tumor Recurrence in Glioblastoma. Radiology, 2017, 283, 499-507.	3.6	33
78	Prognostic Value of Tumor Volume in Glioblastoma Patients: Size Also Matters for Patients with Incomplete Resection. Annals of Surgical Oncology, 2018, 25, 558-564.	0.7	33
79	A large, curated, open-source stroke neuroimaging dataset to improve lesion segmentation algorithms. Scientific Data, 2022, 9, .	2.4	33
80	Association of Quadriceps Muscle Fat With Isometric Strength Measurements in Healthy Males Using Chemical Shift Encoding-Based Water-Fat Magnetic Resonance Imaging. Journal of Computer Assisted Tomography, 2016, 40, 447-451.	0.5	32
81	Bone mineral density measurements in vertebral specimens and phantoms using dual-layer spectral computed tomography. Scientific Reports, 2017, 7, 17519.	1.6	32
82	Automatic detection of osteoporotic vertebral fractures in routine thoracic and abdominal MDCT. European Radiology, 2014, 24, 872-880.	2.3	31
83	In-Vivo Assessment of Femoral Bone Strength Using Finite Element Analysis (FEA) Based on Routine MDCT Imaging: A Preliminary Study on Patients with Vertebral Fractures. PLoS ONE, 2015, 10, e0116907.	1.1	31
84	Texture analysis of vertebral bone marrow using chemical shift encoding–based water-fat MRI: a feasibility study. Osteoporosis International, 2019, 30, 1265-1274.	1.3	30
85	Correlation of X-Ray Vector Radiography to Bone Micro-Architecture. Scientific Reports, 2014, 4, 3695.	1.6	29
86	Improving bone strength prediction in human proximal femur specimens through geometrical characterization of trabecular bone microarchitecture and support vector regression. Journal of Electronic Imaging, 2014, 23, 013013.	0.5	28
87	View-Angle Tilting and Slice-Encoding Metal Artifact Correction for Artifact Reduction in MRI: Experimental Sequence Optimization for Orthopaedic Tumor Endoprostheses and Clinical Application. PLoS ONE, 2015, 10, e0124922.	1.1	28
88	Patterns and Time Dependence of Unspecific Enhancement in Postoperative Magnetic Resonance Imaging After Glioblastoma Resection. World Neurosurgery, 2016, 90, 440-447.	0.7	28
89	Analysis of fractional anisotropy facilitates differentiation of glioblastoma and brain metastases in a clinical setting. European Journal of Radiology, 2016, 85, 2182-2187.	1.2	28
90	Multi–level <i>h</i><i>p</i>–finite cell method for embedded interface problems with application in biomechanics. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2951.	1.0	28

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91	Acceleration of Double Inversion Recovery Sequences in Multiple Sclerosis With Compressed Sensing. Investigative Radiology, 2019, 54, 319-324.	3.5	28
92	Feasibility of opportunistic osteoporosis screening in routine contrast-enhanced multi detector computed tomography (MDCT) using texture analysis. Osteoporosis International, 2018, 29, 825-835.	1.3	27
93	Associations of thigh muscle fat infiltration with isometric strength measurements based on chemical shift encoding-based water-fat magnetic resonance imaging. European Radiology Experimental, 2019, 3, 45.	1.7	27
94	Trabecular Bone Structure Obtained From Multislice Spiral Computed Tomography of the Calcaneus Predicts Osteoporotic Vertebral Deformities. Journal of Computer Assisted Tomography, 2005, 29, 246-253.	0.5	26
95	Imaging Characteristics of DHOG, a Hepatobiliary Contrast Agent for Preclinical MicroCT in Mice. Academic Radiology, 2008, 15, 342-349.	1.3	26
96	Trabecular bone structure analysis of the spine using clinical MDCT: can it predict vertebral bone strength?. Journal of Bone and Mineral Metabolism, 2014, 32, 56-64.	1.3	26
97	Labeling Vertebrae with Two-dimensional Reformations of Multidetector CT Images: An Adversarial Approach for Incorporating Prior Knowledge of Spine Anatomy. Radiology: Artificial Intelligence, 2020, 2, e190074.	3.0	26
98	Takayasu's arteritis in pregnancy: review of literature and discussion. Journal of Perinatal Medicine, 2010, 38, 55-62.	0.6	25
99	Preoperative language mapping by repetitive navigated transcranial magnetic stimulation and diffusion tensor imaging fiber tracking and their comparison to intraoperative stimulation. Neuroradiology, 2016, 58, 807-818.	1.1	25
100	Magnetic resonance imaging of the inferior alveolar nerve with special regard to metal artifact reduction. Journal of Cranio-Maxillo-Facial Surgery, 2017, 45, 558-569.	0.7	25
101	Accuracy of CT-navigated pedicle screw positioning in the cervical and upper thoracic region with and without prior anterior surgery and ventral plating. Bone and Joint Journal, 2017, 99-B, 1373-1380.	1.9	25
102	Improved Brachial Plexus Visualization Using an Adiabatic iMSDE-Prepared STIR 3D TSE. Clinical Neuroradiology, 2019, 29, 631-638.	1.0	25
103	Vertebral Artery Patency and Thrombectomy in Basilar Artery Occlusions. Stroke, 2019, 50, 389-395.	1.0	25
104	Bone mineral density measurements of the proximal femur from routine contrast-enhanced MDCT data sets correlate with dual-energy X-ray absorptiometry. European Radiology, 2013, 23, 505-512.	2.3	24
105	Coherent Superposition in Grating-Based Directional Dark-Field Imaging. PLoS ONE, 2013, 8, e61268.	1.1	24
106	Multidetector Computed Tomography Imaging. Journal of Computer Assisted Tomography, 2018, 42, 441-447.	0.5	24
107	Bilateral cartilage T2 mapping 9 years after Mega-OATS implantation at the knee: a quantitative 3T MRI study. Osteoarthritis and Cartilage, 2015, 23, 2119-2128.	0.6	23
108	Infarct volume after glioblastoma surgery as an independent prognostic factor. Oncotarget, 2016, 7, 61945-61954.	0.8	23

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109	Cognitive impairment in early MS: contribution of white matter lesions, deep grey matter atrophy, and cortical atrophy. Journal of Neurology, 2020, 267, 2307-2318.	1.8	23
110	Mapping of cerebral metabolic rate of oxygen using dynamic susceptibility contrast and blood oxygen level dependent MR imaging in acute ischemic stroke. Neuroradiology, 2015, 57, 1253-1261.	1.1	22
111	Distinguishing Benign and Malignant Vertebral Fractures Using CT and MRI. Seminars in Musculoskeletal Radiology, 2016, 20, 345-352.	0.4	22
112	Two patients with G<i>MPPB</i> mutation: The overlapping phenotypes of limb-girdle myasthenic syndrome and limb-girdle muscular dystrophy dystroglycanopathy. Muscle and Nerve, 2017, 56, 334-340.	1.0	22
113	Loss of Subcortical Language Pathways Correlates with Surgery-Related Aphasia in Patients with Brain Tumor: An Investigation via Repetitive Navigated Transcranial Magnetic Stimulationâ€"Based Diffusion Tensor Imaging Fiber Tracking. World Neurosurgery, 2018, 111, e806-e818.	0.7	22
114	Adjuvant stereotactic fractionated radiotherapy to the resection cavity in recurrent glioblastoma â€" the GlioCave study (NOA 17 â€" ARO 2016/3 â€" DKTK ROG trial). BMC Cancer, 2018, 18, 15.	1.1	22
115	Thigh muscle segmentation of chemical shift encoding-based water-fat magnetic resonance images: The reference database MyoSegmenTUM. PLoS ONE, 2018, 13, e0198200.	1.1	22
116	Retrospective distortion correction of diffusion tensor imaging data by semi-elastic image fusion â€" Evaluation by means of anatomical landmarks. Clinical Neurology and Neurosurgery, 2019, 183, 105387.	0.6	22
117	Paraspinal Muscle DTI Metrics Predict Muscle Strength. Journal of Magnetic Resonance Imaging, 2019, 50, 816-823.	1.9	22
118	Magnetic Resonance Imaging of the Brain Using Compressed Sensingâ€" Quality Assessment in Daily Clinical Routine. Clinical Neuroradiology, 2020, 30, 279-286.	1.0	22
119	Effect of the intervertebral disc on vertebral bone strength prediction: a finite-element study. Spine Journal, 2020, 20, 665-671.	0.6	22
120	A computed tomography vertebral segmentation dataset with anatomical variations and multi-vendor scanner data. Scientific Data, 2021, 8, 284.	2.4	22
121	Imaging of Trabecular Bone Structure. Seminars in Musculoskeletal Radiology, 2002, 06, 253-262.	0.4	21
122	Balloon osteoplastyâ€"a new technique for reduction and stabilisation of impression fractures in the tibial plateau: A cadaver study and first clinical application. International Orthopaedics, 2012, 36, 1937-1940.	0.9	21
123	Osteoporosis Is the Most Important Risk Factor for Odontoid Fractures in the Elderly. Journal of Bone and Mineral Research, 2017, 32, 1582-1588.	3.1	21
124	Gender- and Age-Related Changes in Trunk Muscle Composition Using Chemical Shift Encoding-Based Waterâ€"Fat MRI. Nutrients, 2018, 10, 1972.	1.7	21
125	Three-material decomposition with dual-layer spectral CT compared to MRI for the detection of bone marrow edema in patients with acute vertebral fractures. Skeletal Radiology, 2018, 47, 1533-1540.	1.2	21
126	Multi-detector CT imaging: impact of virtual tube current reduction and sparse sampling on detection of vertebral fractures. European Radiology, 2019, 29, 3606-3616.	2.3	21

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127	Opportunistic Osteoporosis Screening Reveals Low Bone Density in Patients With Screw Loosening After Lumbar Semi-Rigid Instrumentation: A Case-Control Study. Frontiers in Endocrinology, 2020, 11, 552719.	1.5	21
128	Attention-Driven Deep Learning for Pathological Spine Segmentation. Lecture Notes in Computer Science, 2018, , 108-119.	1.0	21
129	Accelerated stem cell labeling with ferucarbotran and protamine. European Radiology, 2010, 20, 640-648.	2.3	20
130	Cortical and trabecular bone structure analysis at the distal radiusâ€"prediction of biomechanical strength by DXA and MRI. Journal of Bone and Mineral Metabolism, 2013, 31, 212-221.	1.3	20
131	Effects of dose reduction on bone strength prediction using finite element analysis. Scientific Reports, 2016, 6, 38441.	1.6	20
132	Interhemispheric connectivity revealed by diffusion tensor imaging fiber tracking derived from navigated transcranial magnetic stimulation maps as a sign of language function at risk in patients with brain tumors. Journal of Neurosurgery, 2017, 126, 222-233.	0.9	20
133	Decreased water T$_2$ in fatty infiltrated skeletal muscles of patients with neuromuscular diseases. NMR in Biomedicine, 2019, 32, e4111.	1.6	20
134	Highly accelerated time-of-flight magnetic resonance angiography using spiral imaging improves conspicuity of intracranial arterial branches while reducing scan time. European Radiology, 2020, 30, 855-865.	2.3	20
135	Regional analysis of age-related local bone loss in the spine of a healthy population using 3D voxel-based modeling. Bone, 2017, 103, 233-240.	1.4	19
136	Fully automated analysis combining [18F]-FET-PET and multiparametric MRI including DSC perfusion and APTw imaging: a promising tool for objective evaluation of glioma progression. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 4445-4455.	3.3	19
137	Safe Brain Tumor Resection Does not Depend on Surgery Alone - Role of Hemodynamics. Scientific Reports, 2017, 7, 5585.	1.6	18
138	DXA-equivalent quantification of bone mineral density using dual-layer spectral CT scout scans. European Radiology, 2019, 29, 4624-4634.	2.3	18
139	Simulation Training in Neuroangiographyâ€"Validation and Effectiveness. Clinical Neuroradiology, 2021, 31, 465-473.	1.0	18
140	MR-based proton density fat fraction (PDFF) of the vertebral bone marrow differentiates between patients with and without osteoporotic vertebral fractures. Osteoporosis International, 2022, 33, 487-496.	1.3	18
141	B1-insensitive T2 mapping of healthy thigh muscles using a T2-prepared 3D TSE sequence. PLoS ONE, 2017, 12, e0171337.	1.1	18
142	Advances of 3T MR imaging in visualizing trabecular bone structure of the calcaneus are partially SNRâ€"independent: Analysis using simulated noise in relation to microâ€"CT, 1.5T MRI, and biomechanical strength. Journal of Magnetic Resonance Imaging, 2009, 29, 132-140.	1.9	17
143	Osteoporosis imaging: effects of bone preservation on MDCT-based trabecular bone microstructure parameters and finite element models. BMC Medical Imaging, 2015, 15, 22.	1.4	17
144	ADC Quantification of the Vertebral Bone Marrow Water Component: Removing the Confounding Effect of Residual Fat. Magnetic Resonance in Medicine, 2017, 78, 1432-1441.	1.9	17

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145	A novel imaging technique for better detecting new lesions in multiple sclerosis. Journal of Neurology, 2017, 264, 1909-1918.	1.8	17
146	Risk of vertebral compression fractures in multiple myeloma patients. Medicine (United States), 2017, 96, e5825.	0.4	17
147	T_2 mapping with magnetization‐prepared 3D TSE based on a modified BIR‐4 T_2 preparation. NMR in Biomedicine, 2017, 30, e3773.	1.6	17
148	Consistency of normalized cerebral blood volume values in glioblastoma using different leakage correction algorithms on dynamic susceptibility contrast magnetic resonance imaging data without and with preload. Journal of Neuroradiology, 2019, 46, 44-51.	0.6	17
149	T2-relaxation time of cartilage repair tissue is associated with bone remodeling after spongiosa-augmented matrix-associated autologous chondrocyte implantation. Osteoarthritis and Cartilage, 2019, 27, 90-98.	0.6	17
150	Balloon osteoplasty—a new technique for minimally invasive reduction and stabilisation of Hill–Sachs lesions of the humeral head: a cadaver study. International Orthopaedics, 2012, 36, 2287-91.	0.9	16
151	Imaging of the lumbar plexus: Optimized refocusing flip angle train design for 3D TSE. Journal of Magnetic Resonance Imaging, 2016, 43, 789-799.	1.9	16
152	FLAIR signal increase of the fluid within the resection cavity after glioma surgery: generally valid as early recurrence marker?. Journal of Neurosurgery, 2017, 127, 417-425.	0.9	16
153	Orthogonally combined motion‐and diffusion‐sensitized driven equilibrium (OC‐MDSDE) preparation for vessel signal suppression in 3D turbo spin echo imaging of peripheral nerves in the extremities. Magnetic Resonance in Medicine, 2018, 79, 407-415.	1.9	16
154	Acute infarction after mechanical thrombectomy is better delineable in virtual non-contrast compared to conventional images using a dual-layer spectral CT. Scientific Reports, 2018, 8, 9329.	1.6	16
155	Can Early Postoperative O-(2-18FFluoroethyl)-l-Tyrosine Positron Emission Tomography After Resection of Glioblastoma Predict the Location of Later Tumor Recurrence?. World Neurosurgery, 2019, 121, e467-e474.	0.7	16
156	Opportunistic QCT Bone Mineral Density Measurements Predicting Osteoporotic Fractures: A Use Case in a Prospective Clinical Cohort. Frontiers in Endocrinology, 2020, 11, 586352.	1.5	16
157	AI for Doctors—A Course to Educate Medical Professionals in Artificial Intelligence for Medical Imaging. Healthcare (Switzerland), 2021, 9, 1278.	1.0	16
158	Bi-allelic truncating mutations in *VWA1* cause neuromyopathy. Brain, 2021, 144, 574-583.	3.7	16
159	Progressive disease in glioblastoma: Benefits and limitations of semi-automated volumetry. PLoS ONE, 2017, 12, e0173112.	1.1	16
160	Automated Opportunistic Osteoporosis Screening in Routine Computed Tomography of the Spine: Comparison With Dedicated Quantitative CT. Journal of Bone and Mineral Research, 2020, 37, 1287-1296.	3.1	16
161	Reproducibility of Trabecular Bone Structure Measurements of the Distal Radius at 1.5 and 3.0 T Magnetic Resonance Imaging. Journal of Computer Assisted Tomography, 2012, 36, 623-626.	0.5	15
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