

Jan S Kirschke

List of Publications by Year in descending order

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295
papers

8,008
citations

50276

46
h-index

91884

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. <i>Medical Image Analysis</i> , 2017, 35, 250-269.	11.6	360
2	Five Freely Circulating miRNAs and Bone Tissue miRNAs Are Associated With Osteoporotic Fractures. <i>Journal of Bone and Mineral Research</i> , 2014, 29, 1718-1728.	2.8	292
3	Cartilage and meniscal T2 relaxation time as non-invasive biomarker for knee osteoarthritis and cartilage repair procedures. <i>Osteoarthritis and Cartilage</i> , 2013, 21, 1474-1484.	1.3	159
4	Inter-subject comparison of MRI knee cartilage thickness. <i>Medical Image Analysis</i> , 2008, 12, 120-135.	11.6	127
5	Advances in osteoporosis imaging. <i>European Journal of Radiology</i> , 2009, 71, 440-449.	2.6	127
6	Bone marrow fat quantification in the presence of trabecular bone: Initial comparison between water-fat imaging and single-voxel MRS. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1158-1165.	3.0	127
7	Risk of cement leakage and pulmonary embolism by bone cement-augmented pedicle screw fixation of the thoracolumbar spine. <i>Spine Journal</i> , 2017, 17, 837-844.	1.3	116
8	VerSe: A Vertebrae labelling and segmentation benchmark for multi-detector CT images. <i>Medical Image Analysis</i> , 2021, 73, 102166.	11.6	112
9	Cortical pathology in multiple sclerosis detected by the T_2 -weighted ratio from routine magnetic resonance imaging. <i>Annals of Neurology</i> , 2017, 82, 519-529.	5.3	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. <i>Radiology</i> , 2006, 239, 488-496.	7.3	101
11	Improved prediction of incident vertebral fractures using opportunistic QCT compared to DXA. <i>European Radiology</i> , 2019, 29, 4980-4989.	4.5	99
12	miRNAs in bone tissue correlate to bone mineral density and circulating miRNAs are gender independent in osteoporotic patients. <i>Scientific Reports</i> , 2017, 7, 15861.	3.3	96
13	Volumetric Quantitative CT of the Spine and Hip Derived from Contrast-Enhanced MDCT: Conversion Factors. <i>American Journal of Roentgenology</i> , 2007, 188, 1294-1301.	2.2	95
14	Radiolucent Carbon Fiber-Reinforced Pedicle Screws for Treatment of Spinal Tumors: Advantages for Radiation Planning and Follow-Up Imaging. <i>World Neurosurgery</i> , 2017, 105, 294-301.	1.3	93
15	In Vitro and in Vivo Spiral CT to Determine Bone Mineral Density: Initial Experience in Patients at Risk for Osteoporosis. <i>Radiology</i> , 2004, 231, 805-811.	7.3	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. <i>European Radiology</i> , 2007, 17, 1518-1528.	4.5	87
17	DeepVesselNet: Vessel Segmentation, Centerline Prediction, and Bifurcation Detection in 3-D Angiographic Volumes. <i>Frontiers in Neuroscience</i> , 2020, 14, 592352.	2.8	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. <i>Calcified Tissue International</i> , 2006, 78, 78-89.	3.1	82

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19	Assessment of whole spine vertebral bone marrow fat using chemical shiftâ€œencoding based waterâ€œfat MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 1018-1023.	3.4	82
20	Revision Rate of Misplaced Pedicle Screws of the Thoracolumbar Spineâ€œComparison of Three-Dimensional Fluoroscopy Navigation with Freehand Placement: A Systematic Analysis and Review of the Literature. <i>World Neurosurgery</i> , 2018, 109, e24-e32.	1.3	82
21	Bone Mineral Density Values Derived from Routine Lumbar Spine Multidetector Row CT Predict Osteoporotic Vertebral Fractures and Screw Loosening. <i>American Journal of Neuroradiology</i> , 2014, 35, 1628-1633.	2.4	74
22	Opportunistic osteoporosis screening in multi-detector CT images via local classification of textures. <i>Osteoporosis International</i> , 2019, 30, 1275-1285.	3.1	72
23	A Vertebral Segmentation Dataset with Fracture Grading. <i>Radiology: Artificial Intelligence</i> , 2020, 2, e190138.	5.8	71
24	MR-Based Assessment of Bone Marrow Fat in Osteoporosis, Diabetes, and Obesity. <i>Frontiers in Endocrinology</i> , 2016, 7, 74.	3.5	70
25	MR-based assessment of body fat distribution and characteristics. <i>European Journal of Radiology</i> , 2016, 85, 1512-1518.	2.6	68
26	X-ray-based quantitative osteoporosis imaging at the spine. <i>Osteoporosis International</i> , 2020, 31, 233-250.	3.1	68
27	Association of paraspinal muscle waterâ€œfat MRI-based measurements with isometric strength measurements. <i>European Radiology</i> , 2019, 29, 599-608.	4.5	66
28	Detection of osteoporotic vertebral fractures using multidetector CT. <i>Osteoporosis International</i> , 2006, 17, 608-615.	3.1	65
29	Anatomical Variation of Age-Related Changes in Vertebral Bone Marrow Composition Using Chemical Shift Encoding-Based Waterâ€œFat Magnetic Resonance Imaging. <i>Frontiers in Endocrinology</i> , 2018, 9, 141.	3.5	65
30	<scp>MRI</scp>-Based Quantitative Osteoporosis Imaging at the Spine and Femur. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 54, 12-35.	3.4	61
31	Significance of sagittal reformations in routine thoracic and abdominal multislice CT studies for detecting osteoporotic fractures and other spine abnormalities. <i>European Radiology</i> , 2008, 18, 1696-1702.	4.5	60
32	Associations between clinical outcome and navigated transcranial magnetic stimulation characteristics in patients with motor-eloquent brain lesions: a combined navigated transcranial magnetic stimulationâ€œdiffusion tensor imaging fiber tracking approach. <i>Journal of Neurosurgery</i> , 2018, 128, 800-810.	1.6	60
33	Automated segmentation of changes in FLAIR-hyperintense white matter lesions in multiple sclerosis on serial magnetic resonance imaging. <i>NeuroImage: Clinical</i> , 2019, 23, 101849.	2.7	60
34	Diffusion tensor image features predict IDH genotype in newly diagnosed WHO grade II/III gliomas. <i>Scientific Reports</i> , 2017, 7, 13396.	3.3	57
35	BMD measurements of the spine derived from sagittal reformations of contrast-enhanced MDCT without dedicated software. <i>European Journal of Radiology</i> , 2011, 80, e140-e145.	2.6	55
36	Bisphosphonate and Medication-Related Osteonecrosis of the Jaw: A Review. <i>Seminars in Musculoskeletal Radiology</i> , 2016, 20, 305-314.	0.7	54

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37	Converted Lumbar BMD Values Derived from Sagittal Reformations of Contrast-Enhanced MDCT Predict Incidental Osteoporotic Vertebral Fractures. <i>Calcified Tissue International</i> , 2012, 90, 481-487.	3.1	53
38	Volume versus surface-based cortical thickness measurements: A comparative study with healthy controls and multiple sclerosis patients. <i>PLoS ONE</i> , 2017, 12, e0179590.	2.5	53
39	Trabecular Bone Structure of the Distal Radius, the Calcaneus, and the Spine. <i>Investigative Radiology</i> , 2004, 39, 487-497.	6.2	52
40	The need for T ₂ correction on MRS-based vertebral bone marrow fat quantification: implications for bone marrow fat fraction age dependence. <i>NMR in Biomedicine</i> , 2015, 28, 432-439.	2.8	52
41	MR-detected changes in liver fat, abdominal fat, and vertebral bone marrow fat after a four-week calorie restriction in obese women. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 1272-1280.	3.4	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. <i>Frontiers in Neuroscience</i> , 2020, 14, 125.	2.8	50
44	Automatic opportunistic osteoporosis screening in routine CT: improved prediction of patients with prevalent vertebral fractures compared to DXA. <i>European Radiology</i> , 2021, 31, 6069-6077.	4.5	50
45	T2 assessment and clinical outcome following autologous matrix-assisted chondrocyte and osteochondral autograft transplantation. <i>Osteoarthritis and Cartilage</i> , 2009, 17, 1576-1582.	1.3	49
46	Relaxation effects of ferucarbotran-labeled mesenchymal stem cells at 1.5T and 3T: Discrimination of viable from lysed cells. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 325-332.	3.0	48
47	Sonographic assessment of abdominal fat distribution during the first year of infancy. <i>Pediatric Research</i> , 2015, 78, 342-350.	2.3	48
48	Retrospective Analysis of Radiological Recurrence Patterns in Glioblastoma, Their Prognostic Value And Association to Postoperative Infarct Volume. <i>Scientific Reports</i> , 2018, 8, 4561.	3.3	48
49	Cell labeling with the positive MR contrast agent Gadofluorine M. <i>European Radiology</i> , 2007, 17, 1226-1234.	4.5	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. <i>Investigative Radiology</i> , 2008, 43, 604-611.	6.2	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?. <i>European Radiology</i> , 2017, 27, 5261-5271.	4.5	47
52	Analysis of Trabecular Bone Structure with Multidetector Spiral Computed Tomography in a Simulated Soft-Tissue Environment. <i>Calcified Tissue International</i> , 2007, 80, 366-373.	3.1	46
53	Cartilage Repair Surgery: Outcome Evaluation by Using Noninvasive Cartilage Biomarkers Based on Quantitative MRI Techniques?. <i>BioMed Research International</i> , 2014, 2014, 1-17.	1.9	46
54	Modeling of T ₂ * decay in vertebral bone marrow fat quantification. <i>NMR in Biomedicine</i> , 2015, 28, 1535-1542.	2.8	46

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55	Bone mineral density measurements derived from dual-layer spectral CT enable opportunistic screening for osteoporosis. <i>European Radiology</i> , 2019, 29, 6355-6363.	4.5	46
56	Accuracy of Unenhanced MRI in the Detection of New Brain Lesions in Multiple Sclerosis. <i>Radiology</i> , 2019, 291, 429-435.	7.3	46
57	Proximal Femur Specimens: Automated 3D Trabecular Bone Mineral Density Analysis at Multidetector CT—Correlation with Biomechanical Strength Measurement. <i>Radiology</i> , 2008, 247, 472-481.	7.3	45
58	MR arthrography including abduction and external rotation images in the assessment of atraumatic multidirectional instability of the shoulder. <i>European Radiology</i> , 2014, 24, 1376-1385.	4.5	42
59	Language pathway tracking: comparing nTMS-based DTI fiber tracking with a cubic ROIs-based protocol. <i>Journal of Neurosurgery</i> , 2017, 126, 1006-1014.	1.6	42
60	Associations Between Lumbar Vertebral Bone Marrow and Paraspinal Muscle Fat Compositions—An Investigation by Chemical Shift Encoding-Based Water-Fat MRI. <i>Frontiers in Endocrinology</i> , 2018, 9, 563.	3.5	39
61	Diagnostic Value of CT Arthrography for Evaluation of Osteochondral Lesions at the Ankle. <i>BioMed Research International</i> , 2016, 2016, 1-11.	1.9	38
62	Visualization of subcortical language pathways by diffusion tensor imaging fiber tracking based on rTMS language mapping. <i>Brain Imaging and Behavior</i> , 2017, 11, 899-914.	2.1	38
63	Robust and parallel scalable iterative solutions for large-scale finite cell analyses. <i>Finite Elements in Analysis and Design</i> , 2019, 163, 14-30.	3.2	37
64	Btrfly Net: Vertebrae Labelling with Energy-Based Adversarial Learning of Local Spine Prior. <i>Lecture Notes in Computer Science</i> , 2018, , 649-657.	1.3	37
65	Fast High-Spatial-Resolution MRI of the Ankle with Parallel Imaging Using GRAPPA at 3 T. <i>American Journal of Roentgenology</i> , 2007, 189, 240-245.	2.2	36
66	Prediction of bone strength by 1/4CT and MDCT-based finite-element-models: How much spatial resolution is needed?. <i>European Journal of Radiology</i> , 2014, 83, e36-e42.	2.6	36
67	Association of MRS-Based Vertebral Bone Marrow Fat Fraction with Bone Strength in a Human In Vitro Model. <i>Journal of Osteoporosis</i> , 2015, 2015, 1-8.	0.5	36
68	Feasibility of nTMS-based DTI fiber tracking of language pathways in neurosurgical patients using a fractional anisotropy threshold. <i>Journal of Neuroscience Methods</i> , 2016, 267, 45-54.	2.5	36
69	Fatigue in multiple sclerosis: Associations with clinical, MRI and CSF parameters. <i>Multiple Sclerosis Journal</i> , 2018, 24, 1115-1125.	3.0	36
70	DiamondGAN: Unified Multi-modal Generative Adversarial Networks for MRI Sequences Synthesis. <i>Lecture Notes in Computer Science</i> , 2019, , 795-803.	1.3	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. <i>European Radiology</i> , 2021, 31, 4680-4689.	4.5	35
72	Volumetric Cartilage Measurements of Porcine Knee at 1.5-T and 3.0-T MR Imaging: Evaluation of Precision and Accuracy. <i>Radiology</i> , 2006, 241, 399-406.	7.3	34

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73	Double Inversion Recovery Sequence of the Cervical Spinal Cord in Multiple Sclerosis and Related Inflammatory Diseases. <i>American Journal of Neuroradiology</i> , 2015, 36, 219-225.	2.4	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. <i>World Neurosurgery</i> , 2016, 89, 230-239.	1.3	34
75	MR and CT Imaging to Optimize CT-Guided Biopsies in Suspected Spondylodiscitis. <i>World Neurosurgery</i> , 2017, 99, 726-734.e7.	1.3	34
76	Phase-field boundary conditions for the voxel finite cell method: Surface-free stress analysis of CT-based bone structures. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e2880.	2.1	33
77	Local Fractional Anisotropy Is Reduced in Areas with Tumor Recurrence in Glioblastoma. <i>Radiology</i> , 2017, 283, 499-507.	7.3	33
78	Prognostic Value of Tumor Volume in Glioblastoma Patients: Size Also Matters for Patients with Incomplete Resection. <i>Annals of Surgical Oncology</i> , 2018, 25, 558-564.	1.5	33
79	A large, curated, open-source stroke neuroimaging dataset to improve lesion segmentation algorithms. <i>Scientific Data</i> , 2022, 9, .	5.3	33
80	Association of Quadriceps Muscle Fat With Isometric Strength Measurements in Healthy Males Using Chemical Shift Encoding-Based Water-Fat Magnetic Resonance Imaging. <i>Journal of Computer Assisted Tomography</i> , 2016, 40, 447-451.	0.9	32
81	Bone mineral density measurements in vertebral specimens and phantoms using dual-layer spectral computed tomography. <i>Scientific Reports</i> , 2017, 7, 17519.	3.3	32
82	Automatic detection of osteoporotic vertebral fractures in routine thoracic and abdominal MDCT. <i>European Radiology</i> , 2014, 24, 872-880.	4.5	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. <i>PLoS ONE</i> , 2015, 10, e0116907.	2.5	31
84	Texture analysis of vertebral bone marrow using chemical shift encoding-based water-fat MRI: a feasibility study. <i>Osteoporosis International</i> , 2019, 30, 1265-1274.	3.1	30
85	Correlation of X-Ray Vector Radiography to Bone Micro-Architecture. <i>Scientific Reports</i> , 2014, 4, 3695.	3.3	29
86	Improving bone strength prediction in human proximal femur specimens through geometrical characterization of trabecular bone microarchitecture and support vector regression. <i>Journal of Electronic Imaging</i> , 2014, 23, 013013.	0.9	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. <i>PLoS ONE</i> , 2015, 10, e0124922.	2.5	28
88	Patterns and Time Dependence of Unspecific Enhancement in Postoperative Magnetic Resonance Imaging After Glioblastoma Resection. <i>World Neurosurgery</i> , 2016, 90, 440-447.	1.3	28
89	Analysis of fractional anisotropy facilitates differentiation of glioblastoma and brain metastases in a clinical setting. <i>European Journal of Radiology</i> , 2016, 85, 2182-2187.	2.6	28
90	Multi-level finite cell method for embedded interface problems with application in biomechanics. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e2951.	2.1	28

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91	Acceleration of Double Inversion Recovery Sequences in Multiple Sclerosis With Compressed Sensing. <i>Investigative Radiology</i> , 2019, 54, 319-324.	6.2	28
92	Feasibility of opportunistic osteoporosis screening in routine contrast-enhanced multi detector computed tomography (MDCT) using texture analysis. <i>Osteoporosis International</i> , 2018, 29, 825-835.	3.1	27
93	Associations of thigh muscle fat infiltration with isometric strength measurements based on chemical shift encoding-based water-fat magnetic resonance imaging. <i>European Radiology Experimental</i> , 2019, 3, 45.	3.4	27
94	Trabecular Bone Structure Obtained From Multislice Spiral Computed Tomography of the Calcaneus Predicts Osteoporotic Vertebral Deformities. <i>Journal of Computer Assisted Tomography</i> , 2005, 29, 246-253.	0.9	26
95	Imaging Characteristics of DHOG, a Hepatobiliary Contrast Agent for Preclinical MicroCT in Mice. <i>Academic Radiology</i> , 2008, 15, 342-349.	2.5	26
96	Trabecular bone structure analysis of the spine using clinical MDCT: can it predict vertebral bone strength?. <i>Journal of Bone and Mineral Metabolism</i> , 2014, 32, 56-64.	2.7	26
97	Labeling Vertebrae with Two-dimensional Reformations of Multidetector CT Images: An Adversarial Approach for Incorporating Prior Knowledge of Spine Anatomy. <i>Radiology: Artificial Intelligence</i> , 2020, 2, e190074.	5.8	26
98	Takayasu's arteritis in pregnancy: review of literature and discussion. <i>Journal of Perinatal Medicine</i> , 2010, 38, 55-62.	1.4	25
99	Preoperative language mapping by repetitive navigated transcranial magnetic stimulation and diffusion tensor imaging fiber tracking and their comparison to intraoperative stimulation. <i>Neuroradiology</i> , 2016, 58, 807-818.	2.2	25
100	Magnetic resonance imaging of the inferior alveolar nerve with special regard to metal artifact reduction. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2017, 45, 558-569.	1.7	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. <i>Bone and Joint Journal</i> , 2017, 99-B, 1373-1380.	4.4	25
102	Improved Brachial Plexus Visualization Using an Adiabatic iMSDE-Prepared STIR 3D TSE. <i>Clinical Neuroradiology</i> , 2019, 29, 631-638.	1.9	25
103	Vertebral Artery Patency and Thrombectomy in Basilar Artery Occlusions. <i>Stroke</i> , 2019, 50, 389-395.	2.0	25
104	Bone mineral density measurements of the proximal femur from routine contrast-enhanced MDCT data sets correlate with dual-energy X-ray absorptiometry. <i>European Radiology</i> , 2013, 23, 505-512.	4.5	24
105	Coherent Superposition in Grating-Based Directional Dark-Field Imaging. <i>PLoS ONE</i> , 2013, 8, e61268.	2.5	24
106	Multidetector Computed Tomography Imaging. <i>Journal of Computer Assisted Tomography</i> , 2018, 42, 441-447.	0.9	24
107	Bilateral cartilage T2 mapping 9 years after Mega-OATS implantation at the knee: a quantitative 3T MRI study. <i>Osteoarthritis and Cartilage</i> , 2015, 23, 2119-2128.	1.3	23
108	Infarct volume after glioblastoma surgery as an independent prognostic factor. <i>Oncotarget</i> , 2016, 7, 61945-61954.	1.8	23

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109	Cognitive impairment in early MS: contribution of white matter lesions, deep grey matter atrophy, and cortical atrophy. <i>Journal of Neurology</i> , 2020, 267, 2307-2318.	3.6	23
110	Mapping of cerebral metabolic rate of oxygen using dynamic susceptibility contrast and blood oxygen level dependent MR imaging in acute ischemic stroke. <i>Neuroradiology</i> , 2015, 57, 1253-1261.	2.2	22
111	Distinguishing Benign and Malignant Vertebral Fractures Using CT and MRI. <i>Seminars in Musculoskeletal Radiology</i> , 2016, 20, 345-352.	0.7	22
112	Two patients with G<i>MPPB</i> mutation: The overlapping phenotypes of limb-girdle myasthenic syndrome and limb-girdle muscular dystrophy dystroglycanopathy. <i>Muscle and Nerve</i> , 2017, 56, 334-340.	2.2	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. <i>World Neurosurgery</i> , 2018, 111, e806-e818.	1.3	22
114	Adjuvant stereotactic fractionated radiotherapy to the resection cavity in recurrent glioblastoma â€the GlioCave study (NOA 17 â€ ARO 2016/3 â€ DTK ROG trial). <i>BMC Cancer</i> , 2018, 18, 15.	2.6	22
115	Thigh muscle segmentation of chemical shift encoding-based water-fat magnetic resonance images: The reference database MyoSegmenTUM. <i>PLoS ONE</i> , 2018, 13, e0198200.	2.5	22
116	Retrospective distortion correction of diffusion tensor imaging data by semi-elastic image fusion â€ Evaluation by means of anatomical landmarks. <i>Clinical Neurology and Neurosurgery</i> , 2019, 183, 105387.	1.4	22
117	Paraspinal Muscle DTI Metrics Predict Muscle Strength. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 816-823.	3.4	22
118	Magnetic Resonance Imaging of the Brain Using Compressed Sensingâ€ Quality Assessment in Daily Clinical Routine. <i>Clinical Neuroradiology</i> , 2020, 30, 279-286.	1.9	22
119	Effect of the intervertebral disc on vertebral bone strength prediction: a finite-element study. <i>Spine Journal</i> , 2020, 20, 665-671.	1.3	22
120	A computed tomography vertebral segmentation dataset with anatomical variations and multi-vendor scanner data. <i>Scientific Data</i> , 2021, 8, 284.	5.3	22
121	Imaging of Trabecular Bone Structure. <i>Seminars in Musculoskeletal Radiology</i> , 2002, 06, 253-262.	0.7	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. <i>International Orthopaedics</i> , 2012, 36, 1937-1940.	1.9	21
123	Osteoporosis Is the Most Important Risk Factor for Odontoid Fractures in the Elderly. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 1582-1588.	2.8	21
124	Gender- and Age-Related Changes in Trunk Muscle Composition Using Chemical Shift Encoding-Based Waterâ€Fat MRI. <i>Nutrients</i> , 2018, 10, 1972.	4.1	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. <i>Skeletal Radiology</i> , 2018, 47, 1533-1540.	2.0	21
126	Multi-detector CT imaging: impact of virtual tube current reduction and sparse sampling on detection of vertebral fractures. <i>European Radiology</i> , 2019, 29, 3606-3616.	4.5	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. <i>Frontiers in Endocrinology</i> , 2020, 11, 552719.	3.5	21
128	Attention-Driven Deep Learning for Pathological Spine Segmentation. <i>Lecture Notes in Computer Science</i> , 2018, , 108-119.	1.3	21
129	Accelerated stem cell labeling with ferucarbotran and protamine. <i>European Radiology</i> , 2010, 20, 640-648.	4.5	20
130	Cortical and trabecular bone structure analysis at the distal radiusâ€”prediction of biomechanical strength by DXA and MRI. <i>Journal of Bone and Mineral Metabolism</i> , 2013, 31, 212-221.	2.7	20
131	Effects of dose reduction on bone strength prediction using finite element analysis. <i>Scientific Reports</i> , 2016, 6, 38441.	3.3	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. <i>Journal of Neurosurgery</i> , 2017, 126, 222-233.	1.6	20
133	Decreased water T ₂ in fatty infiltrated skeletal muscles of patients with neuromuscular diseases. <i>NMR in Biomedicine</i> , 2019, 32, e4111.	2.8	20
134	Highly accelerated time-of-flight magnetic resonance angiography using spiral imaging improves conspicuity of intracranial arterial branches while reducing scan time. <i>European Radiology</i> , 2020, 30, 855-865.	4.5	20
135	Regional analysis of age-related local bone loss in the spine of a healthy population using 3D voxel-based modeling. <i>Bone</i> , 2017, 103, 233-240.	2.9	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. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 4445-4455.	6.4	19
137	Safe Brain Tumor Resection Does not Depend on Surgery Alone - Role of Hemodynamics. <i>Scientific Reports</i> , 2017, 7, 5585.	3.3	18
138	DXA-equivalent quantification of bone mineral density using dual-layer spectral CT scout scans. <i>European Radiology</i> , 2019, 29, 4624-4634.	4.5	18
139	Simulation Training in Neuroangiographyâ€”Validation and Effectiveness. <i>Clinical Neuroradiology</i> , 2021, 31, 465-473.	1.9	18
140	MR-based proton density fat fraction (PDFF) of the vertebral bone marrow differentiates between patients with and without osteoporotic vertebral fractures. <i>Osteoporosis International</i> , 2022, 33, 487-496.	3.1	18
141	B1-insensitive T2 mapping of healthy thigh muscles using a T2-prepared 3D TSE sequence. <i>PLoS ONE</i> , 2017, 12, e0171337.	2.5	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. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 29, 132-140.	3.4	17
143	Osteoporosis imaging: effects of bone preservation on MDCT-based trabecular bone microstructure parameters and finite element models. <i>BMC Medical Imaging</i> , 2015, 15, 22.	2.7	17
144	ADC Quantification of the Vertebral Bone Marrow Water Component: Removing the Confounding Effect of Residual Fat. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1432-1441.	3.0	17

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