

Jan S Kirschke

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

282
papers

5,318
citations

38
h-index

57
g-index

303
ext. papers

6,700
ext. citations

4.6
avg, IF

5.73
L-index

#	Paper	IF	Citations
282	ISLES 2015 - A public evaluation benchmark for ischemic stroke lesion segmentation from multispectral MRI. <i>Medical Image Analysis</i> , 2017 , 35, 250-269	15.4	248
281	Five freely circulating miRNAs and bone tissue miRNAs are associated with osteoporotic fractures. <i>Journal of Bone and Mineral Research</i> , 2014 , 29, 1718-28	6.3	235
280	Cartilage and meniscal T2 relaxation time as non-invasive biomarker for knee osteoarthritis and cartilage repair procedures. <i>Osteoarthritis and Cartilage</i> , 2013 , 21, 1474-84	6.2	132
279	Inter-subject comparison of MRI knee cartilage thickness. <i>Medical Image Analysis</i> , 2008 , 12, 120-35	15.4	112
278	Advances in osteoporosis imaging. <i>European Journal of Radiology</i> , 2009 , 71, 440-9	4.7	108
277	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, 1158-65	4.4	92
276	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, 488-96	20.5	90
275	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, 1518-28	8	79
274	Volumetric quantitative CT of the spine and hip derived from contrast-enhanced MDCT: conversion factors. <i>American Journal of Roentgenology</i> , 2007 , 188, 1294-301	5.4	79
273	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	4	72
272	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	4.9	70
271	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, 805-11	20.5	70
270	Assessment of whole spine vertebral bone marrow fat using chemical shift-encoding based water-fat MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 42, 1018-23	5.6	69
269	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	3.9	68
268	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	2.1	60
267	Cortical pathology in multiple sclerosis detected by the T1/T2-weighted ratio from routine magnetic resonance imaging. <i>Annals of Neurology</i> , 2017 , 82, 519-529	9.4	58
266	MR-Based Assessment of Bone Marrow Fat in Osteoporosis, Diabetes, and Obesity. <i>Frontiers in Endocrinology</i> , 2016 , 7, 74	5.7	57

265	MR-based assessment of body fat distribution and characteristics. <i>European Journal of Radiology</i> , 2016 , 85, 1512-8	4.7	54
264	Detection of osteoporotic vertebral fractures using multidetector CT. <i>Osteoporosis International</i> , 2006 , 17, 608-15	5.3	54
263	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, 1696-702 ⁸	8	51
262	Diffusion tensor image features predict IDH genotype in newly diagnosed WHO grade II/III gliomas. <i>Scientific Reports</i> , 2017 , 7, 13396	4.9	50
261	Trabecular bone structure of the distal radius, the calcaneus, and the spine: which site predicts fracture status of the spine best?. <i>Investigative Radiology</i> , 2004 , 39, 487-97	10.1	49
260	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. <i>World Neurosurgery</i> , 2018 , 109, e24-e32	2.1	48
259	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, 325-32	4.4	47
258	Anatomical Variation of Age-Related Changes in Vertebral Bone Marrow Composition Using Chemical Shift Encoding-Based Water-Fat Magnetic Resonance Imaging. <i>Frontiers in Endocrinology</i> , 2018 , 9, 141	5.7	46
257	The need for T1 ρ correction on MRS-based vertebral bone marrow fat quantification: implications for bone marrow fat fraction age dependence. <i>NMR in Biomedicine</i> , 2015 , 28, 432-9	4.4	44
256	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, 1628-33	4.4	44
255	BMD measurements of the spine derived from sagittal reformations of contrast-enhanced MDCT without dedicated software. <i>European Journal of Radiology</i> , 2011 , 80, e140-5	4.7	44
254	Sonographic assessment of abdominal fat distribution during the first year of infancy. <i>Pediatric Research</i> , 2015 , 78, 342-50	3.2	43
253	Association of paraspinal muscle water-fat MRI-based measurements with isometric strength measurements. <i>European Radiology</i> , 2019 , 29, 599-608	8	43
252	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, 604-11	10.1	43
251	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, 1272-80	5.6	42
250	Cell labeling with the positive MR contrast agent Gadofluorine M. <i>European Radiology</i> , 2007 , 17, 1226-34 ⁸		42
249	Opportunistic osteoporosis screening in multi-detector CT images via local classification of textures. <i>Osteoporosis International</i> , 2019 , 30, 1275-1285	5.3	41
248	T2 assessment and clinical outcome following autologous matrix-assisted chondrocyte and osteochondral autograft transplantation. <i>Osteoarthritis and Cartilage</i> , 2009 , 17, 1576-82	6.2	41

247	Analysis of trabecular bone structure with multidetector spiral computed tomography in a simulated soft-tissue environment. <i>Calcified Tissue International</i> , 2007 , 80, 366-73	3.9	41
246	Combined image processing techniques for characterization of MRI cartilage of the knee. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2005, 3043-6		41
245	Improved prediction of incident vertebral fractures using opportunistic QCT compared to DXA. <i>European Radiology</i> , 2019 , 29, 4980-4989	8	39
244	Volume versus surface-based cortical thickness measurements: A comparative study with healthy controls and multiple sclerosis patients. <i>PLoS ONE</i> , 2017 , 12, e0179590	3.7	38
243	Modeling of T2* decay in vertebral bone marrow fat quantification. <i>NMR in Biomedicine</i> , 2015 , 28, 1535-424	4.4	38
242	Converted lumbar BMD values derived from sagittal reformations of contrast-enhanced MDCT predict incidental osteoporotic vertebral fractures. <i>Calcified Tissue International</i> , 2012 , 90, 481-7	3.9	38
241	Proximal femur specimens: automated 3D trabecular bone mineral density analysis at multidetector CT--correlation with biomechanical strength measurement. <i>Radiology</i> , 2008 , 247, 472-81	20.5	38
240	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. <i>Journal of Neurosurgery</i> , 2017 , 126, 200-212	3.2	37
239	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	8	36
238	Cartilage repair surgery: outcome evaluation by using noninvasive cartilage biomarkers based on quantitative MRI techniques?. <i>BioMed Research International</i> , 2014 , 2014, 840170	3	34
237	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, 230-9	2.1	33
236	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	20.5	33
235	X-ray-based quantitative osteoporosis imaging at the spine. <i>Osteoporosis International</i> , 2020 , 31, 233-250	9.3	33
234	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	4.1	32
233	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	3	32
232	Language pathway tracking: comparing nTMS-based DTI fiber tracking with a cubic ROIs-based protocol. <i>Journal of Neurosurgery</i> , 2017 , 126, 1006-1014	3.2	31
231	Bisphosphonate and Medication-Related Osteonecrosis of the Jaw: A Review. <i>Seminars in Musculoskeletal Radiology</i> , 2016 , 20, 305-314	1.8	31
230	Fast high-spatial-resolution MRI of the ankle with parallel imaging using GRAPPA at 3 T. <i>American Journal of Roentgenology</i> , 2007 , 189, 240-5	5.4	31

229	Double inversion recovery sequence of the cervical spinal cord in multiple sclerosis and related inflammatory diseases. <i>American Journal of Neuroradiology</i> , 2015 , 36, 219-25	4.4	30
228	MR arthrography including abduction and external rotation images in the assessment of atraumatic multidirectional instability of the shoulder. <i>European Radiology</i> , 2014 , 24, 1376-85	8	29
227	DeepVesselNet: Vessel Segmentation, Centerline Prediction, and Bifurcation Detection in 3-D Angiographic Volumes. <i>Frontiers in Neuroscience</i> , 2020 , 14, 592352	5.1	28
226	A Vertebral Segmentation Dataset with Fracture Grading. <i>Radiology: Artificial Intelligence</i> , 2020 , 2, e190138	13.8	27
225	Fatigue in multiple sclerosis: Associations with clinical, MRI and CSF parameters. <i>Multiple Sclerosis Journal</i> , 2018 , 24, 1115-1125	5	26
224	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, 152349	2.8	26
223	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	2.6	25
222	Robust and parallel scalable iterative solutions for large-scale finite cell analyses. <i>Finite Elements in Analysis and Design</i> , 2019 , 163, 14-30	2.2	25
221	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	5.3	25
220	Retrospective Analysis of Radiological Recurrence Patterns in Glioblastoma, Their Prognostic Value And Association to Postoperative Infarct Volume. <i>Scientific Reports</i> , 2018 , 8, 4561	4.9	25
219	Prediction of bone strength by CT and MDCT-based finite-element-models: how much spatial resolution is needed?. <i>European Journal of Radiology</i> , 2014 , 83, e36-42	4.7	25
218	Bone mineral density measurements in vertebral specimens and phantoms using dual-layer spectral computed tomography. <i>Scientific Reports</i> , 2017 , 7, 17519	4.9	25
217	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, 246-53	2.2	25
216	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, 447-51	2.2	25
215	Bone mineral density measurements derived from dual-layer spectral CT enable opportunistic screening for osteoporosis. <i>European Radiology</i> , 2019 , 29, 6355-6363	8	24
214	Accuracy of Unenhanced MRI in the Detection of New Brain Lesions in Multiple Sclerosis. <i>Radiology</i> , 2019 , 291, 429-435	20.5	24
213	Correlation of X-ray vector radiography to bone micro-architecture. <i>Scientific Reports</i> , 2014 , 4, 3695	4.9	24
212	Btrfly Net: Vertebrae Labelling with Energy-Based Adversarial Learning of Local Spine Prior. <i>Lecture Notes in Computer Science</i> , 2018 , 649-657	0.9	24

211	Imaging characteristics of DHOG, a hepatobiliary contrast agent for preclinical microCT in mice. <i>Academic Radiology</i> , 2008 , 15, 342-9	4.3	23
210	Acceleration of Double Inversion Recovery Sequences in Multiple Sclerosis With Compressed Sensing. <i>Investigative Radiology</i> , 2019 , 54, 319-324	10.1	23
209	Multi-level hp-finite cell method for embedded interface problems with application in biomechanics. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018 , 34, e2951	2.6	22
208	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	5.3	21
207	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, 505-12	8	21
206	MR and CT Imaging to Optimize CT-Guided Biopsies in Suspected Spondylodiscitis. <i>World Neurosurgery</i> , 2017 , 99, 726-734.e7	2.1	21
205	Local Fractional Anisotropy Is Reduced in Areas with Tumor Recurrence in Glioblastoma. <i>Radiology</i> , 2017 , 283, 499-507	20.5	21
204	Takayasu's arteritis in pregnancy: review of literature and discussion. <i>Journal of Perinatal Medicine</i> , 2010 , 38, 55-62	2.7	21
203	DiamondGAN: Unified Multi-modal Generative Adversarial Networks for MRI Sequences Synthesis. <i>Lecture Notes in Computer Science</i> , 2019 , 795-803	0.9	21
202	Patterns and Time Dependence of Unspecific Enhancement in Postoperative Magnetic Resonance Imaging After Glioblastoma Resection. <i>World Neurosurgery</i> , 2016 , 90, 440-447	2.1	21
201	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	5.7	21
200	BraTS Toolkit: Translating BraTS Brain Tumor Segmentation Algorithms Into Clinical and Scientific Practice. <i>Frontiers in Neuroscience</i> , 2020 , 14, 125	5.1	20
199	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	3.7	20
198	Imaging of trabecular bone structure. <i>Seminars in Musculoskeletal Radiology</i> , 2002 , 6, 253-61	1.8	20
197	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, 807-18	3.2	20
196	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	4.7	20
195	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	2.9	19
194	Accelerated stem cell labeling with ferucarbotran and protamine. <i>European Radiology</i> , 2010 , 20, 640-8	8	19

193	VerSe: A Vertebrae labelling and segmentation benchmark for multi-detector CT images. <i>Medical Image Analysis</i> , 2021 , 73, 102166	15.4	19
192	Loss of Subcortical Language Pathways Correlates with Surgery-Related Aphasia in Patients with Brain Tumor: An Investigation via Repetitive Navigated Transcranial Magnetic Stimulation-Based Diffusion Tensor Imaging Fiber Tracking. <i>World Neurosurgery</i> , 2018 , 111, e806-e818	2.1	18
191	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	5.3	18
190	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	3.7	18
189	Coherent superposition in grating-based directional dark-field imaging. <i>PLoS ONE</i> , 2013 , 8, e61268	3.7	18
188	Infarct volume after glioblastoma surgery as an independent prognostic factor. <i>Oncotarget</i> , 2016 , 7, 61945-61954	3.3	18
187	Diagnostic Value of CT Arthrography for Evaluation of Osteochondral Lesions at the Ankle. <i>BioMed Research International</i> , 2016 , 2016, 3594253	3	18
186	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	3.6	17
185	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, 1253-61	3.2	17
184	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	8.7	17
183	Multidetector Computed Tomography Imaging: Effect of Sparse Sampling and Iterative Reconstruction on Trabecular Bone Microstructure. <i>Journal of Computer Assisted Tomography</i> , 2018 , 42, 441-447	2.2	17
182	Adjuvant stereotactic fractionated radiotherapy to the resection cavity in recurrent glioblastoma - the GlioCave study (NOA 17 - ARO 2016/3 - DTK ROG trial). <i>BMC Cancer</i> , 2018 , 18, 15	4.8	17
181	Two patients with GMPPB mutation: The overlapping phenotypes of limb-girdle myasthenic syndrome and limb-girdle muscular dystrophy dystroglycanopathy. <i>Muscle and Nerve</i> , 2017 , 56, 334-340	3.4	17
180	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	8	16
179	Distinguishing Benign and Malignant Vertebral Fractures Using CT and MRI. <i>Seminars in Musculoskeletal Radiology</i> , 2016 , 20, 345-352	1.8	16
178	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	4.5	16
177	Effects of dose reduction on bone strength prediction using finite element analysis. <i>Scientific Reports</i> , 2016 , 6, 38441	4.9	16
176	MRI-Based Quantitative Osteoporosis Imaging at the Spine and Femur. <i>Journal of Magnetic Resonance Imaging</i> , 2021 , 54, 12-35	5.6	16

175	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	3.1	16
174	Gender- and Age-Related Changes in Trunk Muscle Composition Using Chemical Shift Encoding-Based Water-Fat MRI. <i>Nutrients</i> , 2018 , 10,	6.7	16
173	Decreased water T1 in fatty infiltrated skeletal muscles of patients with neuromuscular diseases. <i>NMR in Biomedicine</i> , 2019 , 32, e41111	4.4	15
172	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	6.2	15
171	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	4.7	15
170	Balloon osteoplasty--a new technique for minimally invasive reduction and stabilisation of Hill-Sachs lesions of the humeral head: a cadaver study. <i>International Orthopaedics</i> , 2012 , 36, 2287-91	3.8	15
169	Balloon osteoplasty--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, 1937-40	3.8	15
168	Advances of 3T MR imaging in visualizing trabecular bone structure of the calcaneus are partially SNR-independent: analysis using simulated noise in relation to micro-CT, 1.5T MRI, and biomechanical strength. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 29, 132-40	5.6	15
167	B1-insensitive T2 mapping of healthy thigh muscles using a T2-prepared 3D TSE sequence. <i>PLoS ONE</i> , 2017 , 12, e0171337	3.7	15
166	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	6.3	14
165	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	5.6	14
164	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	2.9	14
163	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. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 407-415	4.4	14
162	Thigh muscle segmentation of chemical shift encoding-based water-fat magnetic resonance images: The reference database MyoSegmentUM. <i>PLoS ONE</i> , 2018 , 13, e0198200	3.7	14
161	Improved Brachial Plexus Visualization Using an Adiabatic iMSDE-Prepared STIR 3D TSE. <i>Clinical Neuroradiology</i> , 2019 , 29, 631-638	2.7	14
160	Automatic detection of osteoporotic vertebral fractures in routine thoracic and abdominal MDCT. <i>European Radiology</i> , 2014 , 24, 872-80	8	14
159	Cortical and trabecular bone structure analysis at the distal radius-prediction of biomechanical strength by DXA and MRI. <i>Journal of Bone and Mineral Metabolism</i> , 2013 , 31, 212-21	2.9	14
158	Attention-Driven Deep Learning for Pathological Spine Segmentation. <i>Lecture Notes in Computer Science</i> , 2018 , 108-119	0.9	14

157	Vertebral Artery Patency and Thrombectomy in Basilar Artery Occlusions. <i>Stroke</i> , 2019 , 50, 389-395	6.7	14
156	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	3.2	13
155	Retrospective distortion correction of diffusion tensor imaging data by semi-elastic image fusion - Evaluation by means of anatomical landmarks. <i>Clinical Neurology and Neurosurgery</i> , 2019 , 183, 105387	2	13
154	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. <i>Journal of Neuroradiology</i> , 2019 , 46, 44-51	3.1	13
153	Closed-Cell Stent-Assisted Coiling of Intracranial Aneurysms: Evaluation of Changes in Vascular Geometry Using Digital Subtraction Angiography. <i>PLoS ONE</i> , 2016 , 11, e0153403	3.7	13
152	Magnetic Resonance Imaging of the Brain Using Compressed Sensing - Quality Assessment in Daily Clinical Routine. <i>Clinical Neuroradiology</i> , 2020 , 30, 279-286	2.7	13
151	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	2.7	12
150	Reproducibility of trabecular bone structure measurements of the distal radius at 1.5 and 3.0 T magnetic resonance imaging. <i>Journal of Computer Assisted Tomography</i> , 2012 , 36, 623-6	2.2	12
149	Progressive disease in glioblastoma: Benefits and limitations of semi-automated volumetry. <i>PLoS ONE</i> , 2017 , 12, e0173112	3.7	12
148	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	8	12
147	DXA-equivalent quantification of bone mineral density using dual-layer spectral CT scout scans. <i>European Radiology</i> , 2019 , 29, 4624-4634	8	12
146	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	4.4	11
145	Risk of vertebral compression fractures in multiple myeloma patients: A finite-element study. <i>Medicine (United States)</i> , 2017 , 96, e5825	1.8	11
144	T mapping with magnetization-prepared 3D TSE based on a modified BIR-4 preparation. <i>NMR in Biomedicine</i> , 2017 , 30, e3773	4.4	11
143	Imaging of the lumbar plexus: Optimized refocusing flip angle train design for 3D TSE. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 43, 789-99	5.6	11
142	Value of Early Postoperative FLAIR Volume Dynamic in Glioma with No or Minimal Enhancement. <i>World Neurosurgery</i> , 2016 , 91, 548-559.e1	2.1	11
141	Can Early Postoperative O-(2-Fluoroethyl)-l-Tyrosine Positron Emission Tomography After Resection of Glioblastoma Predict the Location of Later Tumor Recurrence?. <i>World Neurosurgery</i> , 2019 , 121, e467-e474	2.1	11
140	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	8	11

139	Acute infarction after mechanical thrombectomy is better delineable in virtual non-contrast compared to conventional images using a dual-layer spectral CT. <i>Scientific Reports</i> , 2018 , 8, 9329	4.9	11
138	Paraspinal Muscle DTI Metrics Predict Muscle Strength. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 50, 816-823	5.6	10
137	3.0T MR imaging of the ankle: Axial traction for morphological cartilage evaluation, quantitative T2 mapping and cartilage diffusion imaging-A preliminary study. <i>European Journal of Radiology</i> , 2015 , 84, 1546-1554	4.7	10
136	Effects of virtual tube current reduction and sparse sampling on MDCT-based femoral BMD measurements. <i>Osteoporosis International</i> , 2018 , 29, 2685-2692	5.3	10
135	Correlation of X-ray dark-field radiography to mechanical sample properties. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1528-33	0.5	10
134	Safe Brain Tumor Resection Does not Depend on Surgery Alone - Role of Hemodynamics. <i>Scientific Reports</i> , 2017 , 7, 5585	4.9	10
133	X-ray dark-field vector radiography-a novel technique for osteoporosis imaging. <i>Journal of Computer Assisted Tomography</i> , 2015 , 39, 286-9	2.2	10
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45	Multi-detector computed tomography (MDCT) imaging: association of bone texture parameters with finite element analysis (FEA)-based failure load of single vertebrae and functional spinal units. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021 , 11, 2955-2967	3.6	2
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25	Association of Thigh Muscle Strength with Texture Features Based on Proton Density Fat Fraction Maps Derived from Chemical Shift Encoding-Based Water-Fat MRI. <i>Diagnostics</i> , 2021 , 11,	3.8	1
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23	CFD and MRI studies of hemodynamic changes after flow diverter implantation in a patient-specific model of the cerebral artery. <i>Experiments in Fluids</i> , 2018 , 59, 1	2.5	1
22	Prediction of incident vertebral fractures in routine MDCT: Comparison of global texture features, 3D finite element parameters and volumetric BMD. <i>European Journal of Radiology</i> , 2021 , 141, 109827	4.7	1
21	AI for Doctors-A Course to Educate Medical Professionals in Artificial Intelligence for Medical Imaging. <i>Healthcare (Switzerland)</i> , 2021 , 9,	3.4	1
20	Multi-scanner and multi-modal lumbar vertebral body and intervertebral disc segmentation database.. <i>Scientific Data</i> , 2022 , 9, 97	8.2	1
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11	Low-dose multi-detector computed tomography for periradicular infiltrations at the cervical and lumbar spine.. <i>Scientific Reports</i> , 2022 , 12, 4324	4.9	○
10	Proposed diagnostic volumetric bone mineral density thresholds for osteoporosis and osteopenia at the cervicothoracic spine in correlation to the lumbar spine.. <i>European Radiology</i> , 2022 , 1	8	○
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1	Low-dose MDCT: evaluation of the impact of systematic tube current reduction and sparse sampling on quantitative paraspinal muscle assessment. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021 , 11, 3042-3050	3.6	