

Jan S Kirschke

List of Publications by Year in Descending Order

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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	Anatomy-Aware Inference of the 3D Standing Spine Posture from 2D Radiographs.. <i>Tomography</i> , 2022 , 8, 479-496	3.1	0
281	Low-dose multi-detector computed tomography for periradicular infiltrations at the cervical and lumbar spine.. <i>Scientific Reports</i> , 2022 , 12, 4324	4.9	0
280	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	0
279	Multi-scanner and multi-modal lumbar vertebral body and intervertebral disc segmentation database.. <i>Scientific Data</i> , 2022 , 9, 97	8.2	1
278	Multiple sclerosis lesions and atrophy in the spinal cord: Distribution across vertebral levels and correlation with disability.. <i>NeuroImage: Clinical</i> , 2022 , 34, 103006	5.3	2
277	Uncertainty-Aware and Lesion-Specific Image Synthesis in Multiple Sclerosis Magnetic Resonance Imaging: A Multicentric Validation Study.. <i>Frontiers in Neuroscience</i> , 2022 , 16, 889808	5.1	1
276	Simulation Training in Neuroangiography-Validation and Effectiveness. <i>Clinical Neuroradiology</i> , 2021 , 31, 465-473	2.7	7
275	Texture Analysis Using CT and Chemical Shift Encoding-Based Water-Fat MRI Can Improve Differentiation Between Patients With and Without Osteoporotic Vertebral Fractures.. <i>Frontiers in Endocrinology</i> , 2021 , 12, 778537	5.7	0
274	Gender-, Age- and Region-Specific Characterization of Vertebral Bone Microstructure Through Automated Segmentation and 3D Texture Analysis of Routine Abdominal CT.. <i>Frontiers in Endocrinology</i> , 2021 , 12, 792760	5.7	0
273	Impact of dose reduction and iterative model reconstruction on multi-detector CT imaging of the brain in patients with suspected ischemic stroke. <i>Scientific Reports</i> , 2021 , 11, 22271	4.9	0
272	Automated detection of the contrast phase in MDCT by an artificial neural network improves the accuracy of opportunistic bone mineral density measurements. <i>European Radiology</i> , 2021 , 1	8	2
271	Association of Cervical and Lumbar Paraspinal Muscle Composition Using Texture Analysis of MR-Based Proton Density Fat Fraction Maps. <i>Diagnostics</i> , 2021 , 11,	3.8	1
270	Epidemiology and reporting of osteoporotic vertebral fractures in patients with long-term hospital records based on routine clinical CT imaging. <i>Osteoporosis International</i> , 2021 , 1	5.3	1
269	A computed tomography vertebral segmentation dataset with anatomical variations and multi-vendor scanner data. <i>Scientific Data</i> , 2021 , 8, 284	8.2	5
268	Super-selective ASL and 4D ASL-based MR Angiography in a Patient with Moyamoya Disease : Case Report. <i>Clinical Neuroradiology</i> , 2021 , 31, 515-519	2.7	1
267	MDCT-Based Finite Element Analyses: Are Measurements at the Lumbar Spine Associated with the Biomechanical Strength of Functional Spinal Units of Incidental Osteoporotic Fractures along the Thoracolumbar Spine?. <i>Diagnostics</i> , 2021 , 11,	3.8	2
266	Occult Disco-Ligamentous Lesions of the Subaxial c-Spine-A Comparison of Preoperative Imaging Findings and Intraoperative Site Inspection. <i>Diagnostics</i> , 2021 , 11,	3.8	3

265	Implementation of a sagittal T2-weighted DIXON turbo spin-echo sequence may shorten MRI acquisitions in the emergency setting of suspected spinal bleeding. <i>European Radiology Experimental</i> , 2021 , 5, 19	4.5	2
264	Low-Dose MDCT of Patients With Spinal Instrumentation Using Sparse Sampling: Impact on Metal Artifacts. <i>American Journal of Roentgenology</i> , 2021 , 216, 1308-1317	5.4	2
263	Pre-contrast T1-weighted imaging of the spinal cord may be unnecessary in patients with multiple sclerosis. <i>European Radiology</i> , 2021 , 31, 9316-9323	8	
262	Fully automated analysis combining [F]-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	8.8	2
261	Regional variation of thigh muscle fat infiltration in patients with neuromuscular diseases compared to healthy controls. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021 , 11, 2610-2621	3.6	2
260	Structured Reporting of Acute Ischemic Stroke - Consensus-Based Reporting Templates for Non-Contrast Cranial Computed Tomography, CT Angiography, and CT Perfusion. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2021 , 193, 1315-1317	2.3	
259	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	
258	MRI-Based Quantitative Osteoporosis Imaging at the Spine and Femur. <i>Journal of Magnetic Resonance Imaging</i> , 2021 , 54, 12-35	5.6	16
257	T1-Weighted Intensity Increase After a Single Administration of a Linear Gadolinium-Based Contrast Agent in Multiple Sclerosis. <i>Clinical Neuroradiology</i> , 2021 , 31, 235-243	2.7	2
256	Novel Ultrafast Spiral Head MR Angiography Compared to Standard MR and CT Angiography. <i>Journal of Neuroimaging</i> , 2021 , 31, 45-56	2.8	6
255	A short history of thrombectomy - Procedure and success analysis of different endovascular stroke treatment techniques. <i>Interventional Neuroradiology</i> , 2021 , 27, 249-256	1.9	3
254	MRI Imaging by 3D T1-weighted black blood sequences may improve delineation of therapy-naive high-grade gliomas. <i>European Radiology</i> , 2021 , 31, 2312-2320	8	1
253	Opportunistic osteoporosis screening: contrast-enhanced dual-layer spectral CT provides accurate measurements of vertebral bone mineral density. <i>European Radiology</i> , 2021 , 31, 3147-3155	8	5
252	Low-dose MDCT: evaluation of the impact of systematic tube current reduction and sparse sampling on the detection of degenerative spine diseases. <i>European Radiology</i> , 2021 , 31, 2590-2600	8	2
251	Improved Reliability of Automated ASPECTS Evaluation Using Iterative Model Reconstruction from Head CT Scans. <i>Journal of Neuroimaging</i> , 2021 , 31, 341-347	2.8	2
250	Spine surgery in pregnant women: a multicenter case series and proposition of treatment algorithm. <i>European Spine Journal</i> , 2021 , 30, 809-817	2.7	2
249	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
248	Local Bone Mineral Density, Subcutaneous and Visceral Adipose Tissue Measurements in Routine Multi Detector Computed Tomography-Which Parameter Predicts Incident Vertebral Fractures Best?. <i>Diagnostics</i> , 2021 , 11,	3.8	1

247	Texture Features of Proton Density Fat Fraction Maps from Chemical Shift Encoding-Based MRI Predict Paraspinal Muscle Strength. <i>Diagnostics</i> , 2021 , 11,	3.8	2
246	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
245	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
244	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
243	AI for Doctors-A Course to Educate Medical Professionals in Artificial Intelligence for Medical Imaging. <i>Healthcare (Switzerland)</i> , 2021 , 9,	3.4	1
242	Gray matter atrophy in relapsing-remitting multiple sclerosis is associated with white matter lesions in connecting fibers. <i>Multiple Sclerosis Journal</i> , 2021 , 13524585211044957	5	0
241	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> , 2021 , 1	5.3	2
240	VerSe: A Vertebrae labelling and segmentation benchmark for multi-detector CT images. <i>Medical Image Analysis</i> , 2021 , 73, 102166	15.4	19
239	AIFNet: Automatic vascular function estimation for perfusion analysis using deep learning. <i>Medical Image Analysis</i> , 2021 , 74, 102211	15.4	0
238	Effect of MRI acquisition acceleration via compressed sensing and parallel imaging on brain volumetry. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021 , 34, 487-497	2.8	2
237	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	8	8
236	Prediction of Incidental Osteoporotic Fractures at Vertebral-Specific Level Using 3D Non-Linear Finite Element Parameters Derived from Routine Abdominal MDCT. <i>Diagnostics</i> , 2021 , 11,	3.8	2
235	Bi-allelic truncating mutations in VWA1 cause neuromyopathy. <i>Brain</i> , 2021 , 144, 574-583	11.2	5
234	Robust, Primitive, and Unsupervised Quality Estimation for Segmentation Ensembles.. <i>Frontiers in Neuroscience</i> , 2021 , 15, 752780	5.1	0
233	Tracking the Corticospinal Tract in Patients With High-Grade Glioma: Clinical Evaluation of Multi-Level Fiber Tracking and Comparison to Conventional Deterministic Approaches.. <i>Frontiers in Oncology</i> , 2021 , 11, 761169	5.3	3
232	Vertebral Bone Marrow Heterogeneity Using Texture Analysis of Chemical Shift Encoding-Based MRI: Variations in Age, Sex, and Anatomical Location. <i>Frontiers in Endocrinology</i> , 2020 , 11, 555931	5.7	6
231	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
230	Diffusion tensor imaging and tractography for preoperative assessment of benign peripheral nerve sheath tumors. <i>European Journal of Radiology</i> , 2020 , 129, 109110	4.7	3

229	Age- and BMI-related variations of fat distribution in sacral and lumbar bone marrow and their association with local muscle fat content. <i>Scientific Reports</i> , 2020 , 10, 9686	4.9	2
228	Assessment of the Extent of Resection in Surgery of High-Grade Glioma-Evaluation of Black Blood Sequences for Intraoperative Magnetic Resonance Imaging at 3 Tesla. <i>Cancers</i> , 2020 , 12,	6.6	1
227	Magnetic resonance neurography of the lumbosacral plexus at 3 Tesla - CSF-suppressed imaging with submillimeter resolution by a three-dimensional turbo spin echo sequence. <i>Magnetic Resonance Imaging</i> , 2020 , 71, 132-139	3.3	2
226	Regional variation in paraspinal muscle composition using chemical shift encoding-based water-fat MRI. <i>Quantitative Imaging in Medicine and Surgery</i> , 2020 , 10, 496-507	3.6	2
225	Low-dose and sparse sampling MDCT-based femoral bone strength prediction using finite element analysis. <i>Archives of Osteoporosis</i> , 2020 , 15, 17	2.9	6
224	Age- and gender-related variations of cervical muscle composition using chemical shift encoding-based water-fat MRI. <i>European Journal of Radiology</i> , 2020 , 125, 108904	4.7	3
223	Assessment of paraspinal muscle characteristics, lumbar BMD, and their associations in routine multi-detector CT of patients with and without osteoporotic vertebral fractures. <i>European Journal of Radiology</i> , 2020 , 125, 108867	4.7	4
222	BraTS Toolkit: Translating BraTS Brain Tumor Segmentation Algorithms Into Clinical and Scientific Practice. <i>Frontiers in Neuroscience</i> , 2020 , 14, 125	5.1	20
221	T2 mapping of the distal sciatic nerve in healthy subjects and patients suffering from lumbar disc herniation with nerve compression. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020 , 33, 713-724	2.8	8
220	Association of thigh and paraspinal muscle composition in young adults using chemical shift encoding-based water-fat MRI. <i>Quantitative Imaging in Medicine and Surgery</i> , 2020 , 10, 128-136	3.6	3
219	Image Analysis Reveals Microstructural and Volumetric Differences in Glioblastoma Patients with and without Preoperative Seizures. <i>Cancers</i> , 2020 , 12,	6.6	1
218	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	5.5	6
217	Association of quadriceps muscle, gluteal muscle, and femoral bone marrow composition using chemical shift encoding-based water-fat MRI: a preliminary study in healthy young volunteers. <i>European Radiology Experimental</i> , 2020 , 4, 35	4.5	
216	Grading Loss: A Fracture Grade-Based Metric Loss for Vertebral Fracture Detection. <i>Lecture Notes in Computer Science</i> , 2020 , 733-742	0.9	6
215	Simulation Training in Neuroangiography: Transfer to Reality. <i>CardioVascular and Interventional Radiology</i> , 2020 , 43, 1184-1191	2.7	2
214	Systematic Evaluation of Low-dose MDCT for Planning Purposes of Lumbosacral Periradicular Infiltrations. <i>Clinical Neuroradiology</i> , 2020 , 30, 749-759	2.7	4
213	X-ray-based quantitative osteoporosis imaging at the spine. <i>Osteoporosis International</i> , 2020 , 31, 233-250	9.3	33
212	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

211	Effect of the intervertebral disc on vertebral bone strength prediction: a finite-element study. <i>Spine Journal</i> , 2020 , 20, 665-671	4	10
210	C1-C2 posterior screw fixation in atlantoaxial fractures revisited: technical update based on 127 cases. <i>European Spine Journal</i> , 2020 , 29, 1036-1042	2.7	4
209	Water T Mapping in Fatty Infiltrated Thigh Muscles of Patients With Neuromuscular Diseases Using a T -Prepared 3D Turbo Spin Echo With SPAIR. <i>Journal of Magnetic Resonance Imaging</i> , 2020 , 51, 1727-1736	5.6	6
208	Opportunistic QCT Bone Mineral Density Measurements Predicting Osteoporotic Fractures: A Use Case in a Prospective Clinical Cohort. <i>Frontiers in Endocrinology</i> , 2020 , 11, 586352	5.7	3
207	Imaging of the degenerative spine using a sagittal T2-weighted DIXON turbo spin-echo sequence. <i>European Journal of Radiology</i> , 2020 , 131, 109204	4.7	9
206	Finite Element Analysis-Based Vertebral Bone Strength Prediction Using MDCT Data: How Low Can We Go?. <i>Frontiers in Endocrinology</i> , 2020 , 11, 442	5.7	4
205	A Vertebral Segmentation Dataset with Fracture Grading. <i>Radiology: Artificial Intelligence</i> , 2020 , 2, e190138	13.8	27
204	Gadolinium-Enhanced 3D T1-Weighted Black-Blood MR Imaging for the Detection of Acute Optic Neuritis. <i>American Journal of Neuroradiology</i> , 2020 , 41, 2333-2338	4.4	2
203	Subtraction Maps Derived from Longitudinal Magnetic Resonance Imaging in Patients with Glioma Facilitate Early Detection of Tumor Progression. <i>Cancers</i> , 2020 , 12,	6.6	1
202	DeepVesselNet: Vessel Segmentation, Centerline Prediction, and Bifurcation Detection in 3-D Angiographic Volumes. <i>Frontiers in Neuroscience</i> , 2020 , 14, 592352	5.1	28
201	MRI criteria of subtypes of adenomas and epithelial cysts of the pituitary gland. <i>Neurosurgical Review</i> , 2020 , 43, 265-272	3.9	1
200	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
199	Predicting Vertebral Bone Strength Using Finite Element Analysis for Opportunistic Osteoporosis Screening in Routine Multidetector Computed Tomography Scans-A Feasibility Study. <i>Frontiers in Endocrinology</i> , 2020 , 11, 526332	5.7	5
198	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	5.7	7
197	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
196	CSF Protein Concentration Shows No Correlation With Brain Volume Measures. <i>Frontiers in Neurology</i> , 2019 , 10, 463	4.1	
195	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
194	Decreased water T in fatty infiltrated skeletal muscles of patients with neuromuscular diseases. <i>NMR in Biomedicine</i> , 2019 , 32, e4111	4.4	15

193	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
192	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
191	Tube Current Reduction in CT Angiography: How Low Can We Go in Imaging of Patients With Suspected Acute Stroke?. <i>American Journal of Roentgenology</i> , 2019 , 213, 410-416	5.4	3
190	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
189	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
188	Opportunistic osteoporosis screening in multi-detector CT images via local classification of textures. <i>Osteoporosis International</i> , 2019 , 30, 1275-1285	5.3	41
187	Accuracy of Unenhanced MRI in the Detection of New Brain Lesions in Multiple Sclerosis. <i>Radiology</i> , 2019 , 291, 429-435	20.5	24
186	Lumbar muscle and vertebral bodies segmentation of chemical shift encoding-based water-fat MRI: the reference database MyoSegmentUM spine. <i>BMC Musculoskeletal Disorders</i> , 2019 , 20, 152	2.8	7
185	Improved prediction of incident vertebral fractures using opportunistic QCT compared to DXA. <i>European Radiology</i> , 2019 , 29, 4980-4989	8	39
184	Paraspinal Muscle DTI Metrics Predict Muscle Strength. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 50, 816-823	5.6	10
183	Improved Brachial Plexus Visualization Using an Adiabatic iMSDE-Prepared STIR 3D TSE. <i>Clinical Neuroradiology</i> , 2019 , 29, 631-638	2.7	14
182	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
181	MDCT-based Finite Element Analysis of Vertebral Fracture Risk: What Dose is Needed?. <i>Clinical Neuroradiology</i> , 2019 , 29, 645-651	2.7	7
180	Association of paraspinal muscle water-fat MRI-based measurements with isometric strength measurements. <i>European Radiology</i> , 2019 , 29, 599-608	8	43
179	A Radiomics Approach to Traumatic Brain Injury Prediction in CT Scans 2019 ,		3
178	Vertebral bone marrow fat fraction changes in postmenopausal women with breast cancer receiving combined aromatase inhibitor and bisphosphonate therapy. <i>BMC Musculoskeletal Disorders</i> , 2019 , 20, 515	2.8	2
177	Prognostic value of white matter lesion shrinking in early multiple sclerosis: An intuitive or naïve notion?. <i>Brain and Behavior</i> , 2019 , 9, e01417	3.4	4
176	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

175	T2 mapping of lumbosacral nerves in patients suffering from unilateral radicular pain due to degenerative disc disease. <i>Journal of Neurosurgery: Spine</i> , 2019 , 1-9	2.8	4
174	Probabilistic Point Cloud Reconstructions for Vertebral Shape Analysis. <i>Lecture Notes in Computer Science</i> , 2019 , 375-383	0.9	4
173	DiamondGAN: Unified Multi-modal Generative Adversarial Networks for MRI Sequences Synthesis. <i>Lecture Notes in Computer Science</i> , 2019 , 795-803	0.9	21
172	DXA-equivalent quantification of bone mineral density using dual-layer spectral CT scout scans. <i>European Radiology</i> , 2019 , 29, 4624-4634	8	12
171	Effect of Statistically Iterative Image Reconstruction on Vertebral Bone Strength Prediction Using Bone Mineral Density and Finite Element Modeling: A Preliminary Study. <i>Journal of Computer Assisted Tomography</i> , 2019 , 43, 61-65	2.2	5
170	Acceleration of Double Inversion Recovery Sequences in Multiple Sclerosis With Compressed Sensing. <i>Investigative Radiology</i> , 2019 , 54, 319-324	10.1	23
169	Vertebral Artery Patency and Thrombectomy in Basilar Artery Occlusions. <i>Stroke</i> , 2019 , 50, 389-395	6.7	14
168	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
167	Wavelet-based reconstruction of dynamic susceptibility MR-perfusion: a new method to visualize hypervascular brain tumors. <i>European Radiology</i> , 2019 , 29, 2669-2676	8	1
166	Differentiation of Acute/Subacute versus Old Vertebral Fractures in Multislice Detector Computed Tomography: Is Magnetic Resonance Imaging Always Needed?. <i>World Neurosurgery</i> , 2019 , 122, e676-e683 ^{2,1}		3
165	T2-relaxation time of cartilage repair tissue is associated with bone remodeling after spongiosa-augmented matrix-associated autologous chondrocyte implantation. <i>Osteoarthritis and Cartilage</i> , 2019 , 27, 90-98	6.2	9
164	Association of smoking but not HLA-DRB1*15:01, APOE or body mass index with brain atrophy in early multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2019 , 25, 661-668	5	5
163	High Isotropic Resolution T2 Mapping of the Lumbosacral Plexus with T2-Prepared 3D Turbo Spin Echo. <i>Clinical Neuroradiology</i> , 2019 , 29, 223-230	2.7	10
162	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
161	T2-Weighted Dixon Turbo Spin Echo for Accelerated Simultaneous Grading of Whole-Body Skeletal Muscle Fat Infiltration and Edema in Patients With Neuromuscular Diseases. <i>Journal of Computer Assisted Tomography</i> , 2018 , 42, 574-579	2.2	8
160	Isotropic resolution diffusion tensor imaging of lumbosacral and sciatic nerves using a phase-corrected diffusion-prepared 3D turbo spin echo. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 609-618 ^{4,4}		9
159	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
158	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

157	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
156	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
155	Effect of radiation dose reduction on texture measures of trabecular bone microstructure: an in vitro study. <i>Journal of Bone and Mineral Metabolism</i> , 2018 , 36, 323-335	2.9	8
154	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> , 2018 , 128, 800-812	3.2	37
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. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 407-415	4.4	14
152	Fatigue in multiple sclerosis: Associations with clinical, MRI and CSF parameters. <i>Multiple Sclerosis Journal</i> , 2018 , 24, 1115-1125	5	26
151	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
150	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
149	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
148	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
147	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
146	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
145	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
144	Attention-Driven Deep Learning for Pathological Spine Segmentation. <i>Lecture Notes in Computer Science</i> , 2018 , 108-119	0.9	14
143	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
142	Geostatistical Analysis of White Matter Lesions in Multiple Sclerosis Identifies Gender Differences in Lesion Evolution. <i>Frontiers in Molecular Neuroscience</i> , 2018 , 11, 460	6.1	1
141	Longitudinal changes in subchondral bone structure as assessed with MRI are associated with functional outcome after high tibial osteotomy. <i>Journal of ISAKOS</i> , 2018 , 3, 205-212	1.1	3
140	Predicting brain tumor regrowth in relation to motor areas by functional brain mapping. <i>Neuro-Oncology Practice</i> , 2018 , 5, 82-95	2.2	3

139	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
138	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
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