Jan S Kirschke

List of Publications by Year
in descending order

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295	8,008	50276	91884
papers	citations	46 h-index	69 g-index

303	303	303	8711
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gray matter atrophy in relapsing-remitting multiple sclerosis is associated with white matter lesions in connecting fibers. Multiple Sclerosis Journal, 2022, 28, 900-909.	3.0	4
2	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.	3.1	18
3	Automated detection of the contrast phase in MDCT by an artificial neural network improves the accuracy of opportunistic bone mineral density measurements. European Radiology, 2022, 32, 1465-1474.	4.5	11
4	Epidemiology and reporting of osteoporotic vertebral fractures in patients with long-term hospital records based on routine clinical CT imaging. Osteoporosis International, 2022, 33, 685-694.	3.1	9
5	Anatomy-Aware Inference of the 3D Standing Spine Posture from 2D Radiographs. Tomography, 2022, 8, 479-496.	1.8	2
6	Low-dose multi-detector computed tomography for periradicular infiltrations at the cervical and lumbar spine. Scientific Reports, 2022, 12, 4324.	3.3	3
7	Proposed diagnostic volumetric bone mineral density thresholds for osteoporosis and osteopenia at the cervicothoracic spine in correlation to the lumbar spine. European Radiology, 2022, 32, 6207-6214.	4.5	12
8	Multi-scanner and multi-modal lumbar vertebral body and intervertebral disc segmentation database. Scientific Data, 2022, 9, 97.	5.3	6
9	Multiple sclerosis lesions and atrophy in the spinal cord: Distribution across vertebral levels and correlation with disability. NeuroImage: Clinical, 2022, 34, 103006.	2.7	11
10	Uncertainty-Aware and Lesion-Specific Image Synthesis in Multiple Sclerosis Magnetic Resonance Imaging: A Multicentric Validation Study. Frontiers in Neuroscience, 2022, 16, 889808.	2.8	4
11	Imaging of the Osteoporotic Spine â€“ Quantitative Approaches in Diagnostics and for the Prediction of the Individual Fracture Risk. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2022, 194, 1088-1099.	1.3	6
12	A large, curated, open-source stroke neuroimaging dataset to improve lesion segmentation algorithms. Scientific Data, 2022, 9, .	5.3	33
13	Patient-Specific Finite Element Modeling of the Whole Lumbar Spine Using Clinical Routine Multi-Detector Computed Tomography (MDCT) Dataâ€”A Pilot Study. Biomedicines, 2022, 10, 1567.	3.2	4
14	Super-selective ASL and 4D ASL-based MR Angiography in aÂPatient with Moyamoya Disease. Clinical Neuroradiology, 2021, 31, 515-519.	1.9	6
15	Simulation Training in Neuroangiographyâ€”Validation and Effectiveness. Clinical Neuroradiology, 2021, 31, 465-473.	1.9	18
16	<scp>MRI</scp>â€Based Quantitative Osteoporosis Imaging at the Spine and Femur. Journal of Magnetic Resonance Imaging, 2021, 54, 12-35.	3.4	61
17	T1-Weighted Intensity Increase After aÂSingle Administration of aÂLinear Gadolinium-Based Contrast Agent in Multiple Sclerosis. Clinical Neuroradiology, 2021, 31, 235-243.	1.9	4
18	Novel Ultrafast Spiral Head MR Angiography Compared to Standard MR and CT Angiography. Journal of Neuroimaging, 2021, 31, 45-56.	2.0	11

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19	A short history of thrombectomy â€“ Procedure and success analysis of different endovascular stroke treatment techniques. Interventional Neuroradiology, 2021, 27, 249-256.	1.1	8
20	MRÂimaging by 3D T1-weighted black blood sequences may improve delineation of therapy-naive high-grade gliomas. European Radiology, 2021, 31, 2312-2320.	4.5	8
21	Opportunistic osteoporosis screening: contrast-enhanced dual-layer spectral CT provides accurate measurements of vertebral bone mineral density. European Radiology, 2021, 31, 3147-3155.	4.5	15
22	Low-dose MDCT: evaluation of the impact of systematic tube current reduction and sparse sampling on the detection of degenerative spine diseases. European Radiology, 2021, 31, 2590-2600.	4.5	6
23	Improved Reliability of Automated ASPECTS Evaluation Using Iterative Model Reconstruction from Head CT Scans. Journal of Neuroimaging, 2021, 31, 341-347.	2.0	6
24	Spine surgery in pregnant women: a multicenter case series and proposition of treatment algorithm. European Spine Journal, 2021, 30, 809-817.	2.2	5
25	Automatic opportunistic osteoporosis screening in routine CT: improved prediction of patients with prevalent vertebral fractures compared to DXA. European Radiology, 2021, 31, 6069-6077.	4.5	50
26	Local Bone Mineral Density, Subcutaneous and Visceral Adipose Tissue Measurements in Routine Multi Detector Computed Tomographyâ€"Which Parameter Predicts Incident Vertebral Fractures Best?. Diagnostics, 2021, 11, 240.	2.6	4
27	Texture Features of Proton Density Fat Fraction Maps from Chemical Shift Encoding-Based MRI Predict Paraspinal Muscle Strength. Diagnostics, 2021, 11, 239.	2.6	8
28	Association of Thigh Muscle Strength with Texture Features Based on Proton Density Fat Fraction Maps Derived from Chemical Shift Encoding-Based Waterâ€"Fat MRI. Diagnostics, 2021, 11, 302.	2.6	2
29	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?. Diagnostics, 2021, 11, 455.	2.6	5
30	Occult Disco-Ligamentous Lesions of the Subaxial c-Spineâ€"A Comparison of Preoperative Imaging Findings and Intraoperative Site Inspection. Diagnostics, 2021, 11, 447.	2.6	6
31	Implementation of a sagittal T2-weighted DIXON turbo spin-echo sequence may shorten MRI acquisitions in the emergency setting of suspected spinal bleeding. European Radiology Experimental, 2021, 5, 19.	3.4	3
32	Low-Dose MDCT of Patients With Spinal Instrumentation Using Sparse Sampling: Impact on Metal Artifacts. American Journal of Roentgenology, 2021, 216, 1308-1317.	2.2	5
33	Pre-contrast T1-weighted imaging of the spinal cord may be unnecessary in patients with multiple sclerosis. European Radiology, 2021, 31, 9316-9323.	4.5	0
34	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.	6.4	19
35	Regional variation of thigh muscle fat infiltration in patients with neuromuscular diseases compared to healthy controls. Quantitative Imaging in Medicine and Surgery, 2021, 11, 2610-2621.	2.0	7
36	Quantitative Muscle MRI in Patients with Neuromuscular Diseasesâ€"Association of Muscle Proton Density Fat Fraction with Semi-Quantitative Grading of Fatty Infiltration and Muscle Strength at the Thigh Region. Diagnostics, 2021, 11, 1056.	2.6	9

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37	Structured Reporting of Acute Ischemic Stroke â€“ Consensus-Based Reporting Templates for Non-Contrast Cranial Computed Tomography, CT Angiography, and CT Perfusion. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2021, 193, 1315-1317.	1.3	1
38	Low-dose MDCT: evaluation of the impact of systematic tube current reduction and sparse sampling on quantitative paraspinal muscle assessment. Quantitative Imaging in Medicine and Surgery, 2021, 11, 3042-3050.	2.0	0
39	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. Quantitative Imaging in Medicine and Surgery, 2021, 11, 2955-2967.	2.0	3
40	Prediction of incident vertebral fractures in routine MDCT: Comparison of global texture features, 3D finite element parameters and volumetric BMD. European Journal of Radiology, 2021, 141, 109827.	2.6	6
41	AI for Doctorsâ€"A Course to Educate Medical Professionals in Artificial Intelligence for Medical Imaging. Healthcare (Switzerland), 2021, 9, 1278.	2.0	16
42	VerSe: A Vertebrae labelling and segmentation benchmark for multi-detector CT images. Medical Image Analysis, 2021, 73, 102166.	11.6	112
43	AIFNet: Automatic vascular function estimation for perfusion analysis using deep learning. Medical Image Analysis, 2021, 74, 102211.	11.6	10
44	Effect of MRI acquisition acceleration via compressed sensing and parallel imaging on brain volumetry. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 487-497.	2.0	12
45	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.	4.5	35
46	Prediction of Incidental Osteoporotic Fractures at Vertebral-Specific Level Using 3D Non-Linear Finite Element Parameters Derived from Routine Abdominal MDCT. Diagnostics, 2021, 11, 208.	2.6	9
47	Bi-allelic truncating mutations in VWA1 cause neuromyopathy. Brain, 2021, 144, 574-583.	7.6	16
48	MDCT-Based Finite Element Analysis for the Prediction of Functional Spine Unit Strengthâ€"An In Vitro Study. Materials, 2021, 14, 5791.	2.9	2
49	Association of Cervical and Lumbar Paraspinal Muscle Composition Using Texture Analysis of MR-Based Proton Density Fat Fraction Maps. Diagnostics, 2021, 11, 1929.	2.6	3
50	A computed tomography vertebral segmentation dataset with anatomical variations and multi-vendor scanner data. Scientific Data, 2021, 8, 284.	5.3	22
51	Impact of dose reduction and iterative model reconstruction on multi-detector CT imaging of the brain in patients with suspected ischemic stroke. Scientific Reports, 2021, 11, 22271.	3.3	5
52	Texture Analysis Using CT and Chemical Shift Encoding-Based Water-Fat MRI Can Improve Differentiation Between Patients With and Without Osteoporotic Vertebral Fractures. Frontiers in Endocrinology, 2021, 12, 778537.	3.5	8
53	Gender-, Age- and Region-Specific Characterization of Vertebral Bone Microstructure Through Automated Segmentation and 3D Texture Analysis of Routine Abdominal CT. Frontiers in Endocrinology, 2021, 12, 792760.	3.5	7
54	Robust, Primitive, and Unsupervised Quality Estimation for Segmentation Ensembles. Frontiers in Neuroscience, 2021, 15, 752780.	2.8	4

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55	Tracking the Corticospinal Tract in Patients With High-Grade Glioma: Clinical Evaluation of Multi-Level Fiber Tracking and Comparison to Conventional Deterministic Approaches. Frontiers in Oncology, 2021, 11, 761169.	2.8	6
56	MRI criteria of subtypes of adenomas and epithelial cysts of the pituitary gland. Neurosurgical Review, 2020, 43, 265-272.	2.4	5
57	Magnetic Resonance Imaging of the Brain Using Compressed SensingÂâ€“ Quality Assessment in Daily Clinical Routine. Clinical Neuroradiology, 2020, 30, 279-286.	1.9	22
58	Systematic Evaluation of Low-dose MDCT for Planning Purposes of Lumbosacral Periradicular Infiltrations. Clinical Neuroradiology, 2020, 30, 749-759.	1.9	6
59	X-ray-based quantitative osteoporosis imaging at the spine. Osteoporosis International, 2020, 31, 233-250.	3.1	68
60	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.	4.5	20
61	Effect of the intervertebral disc on vertebral bone strength prediction: a finite-element study. Spine Journal, 2020, 20, 665-671.	1.3	22
62	C1â€“C2 posterior screw fixation in atlantoaxial fractures revisited: technical update based on 127 cases. European Spine Journal, 2020, 29, 1036-1042.	2.2	9
63	Water T 2 Mapping in Fatty Infiltrated Thigh Muscles of Patients With Neuromuscular Diseases Using a T 2 â€Prepared 3D Turbo Spin Echo With SPAIR. Journal of Magnetic Resonance Imaging, 2020, 51, 1727-1736.	3.4	13
64	Opportunistic QCT Bone Mineral Density Measurements Predicting Osteoporotic Fractures: A Use Case in a Prospective Clinical Cohort. Frontiers in Endocrinology, 2020, 11, 586352.	3.5	16
65	Imaging of the degenerative spine using a sagittal T2-weighted DIXON turbo spin-echo sequence. European Journal of Radiology, 2020, 131, 109204.	2.6	14
66	Finite Element Analysis-Based Vertebral Bone Strength Prediction Using MDCT Data: How Low Can We Go?. Frontiers in Endocrinology, 2020, 11, 442.	3.5	7
67	A Vertebral Segmentation Dataset with Fracture Grading. Radiology: Artificial Intelligence, 2020, 2, e190138.	5.8	71
68	Gadolinium-Enhanced 3D T1-Weighted Black-Blood MR Imaging for the Detection of Acute Optic Neuritis. American Journal of Neuroradiology, 2020, 41, 2333-2338.	2.4	4
69	Subtraction Maps Derived from Longitudinal Magnetic Resonance Imaging in Patients with Glioma Facilitate Early Detection of Tumor Progression. Cancers, 2020, 12, 3111.	3.7	7
70	DeepVesselNet: Vessel Segmentation, Centerline Prediction, and Bifurcation Detection in 3-D Angiographic Volumes. Frontiers in Neuroscience, 2020, 14, 592352.	2.8	83
71	Vertebral Bone Marrow Heterogeneity Using Texture Analysis of Chemical Shift Encoding-Based MRI: Variations in Age, Sex, and Anatomical Location. Frontiers in Endocrinology, 2020, 11, 555931.	3.5	14
72	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.	5.8	26

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73	Diffusion tensor imaging and tractography for preoperative assessment of benign peripheral nerve sheath tumors. European Journal of Radiology, 2020, 129, 109110.	2.6	8
74	Age- and BMI-related variations of fat distribution in sacral and lumbar bone marrow and their association with local muscle fat content. Scientific Reports, 2020, 10, 9686.	3.3	8
75	Assessment of the Extent of Resection in Surgery of High-Grade Gliomaâ€"Evaluation of Black Blood Sequences for Intraoperative Magnetic Resonance Imaging at 3 Tesla. Cancers, 2020, 12, 1580.	3.7	6
76	Magnetic resonance neurography of the lumbosacral plexus at 3 Tesla â€" CSF-suppressed imaging with submillimeter resolution by a three-dimensional turbo spin echo sequence. Magnetic Resonance Imaging, 2020, 71, 132-139.	1.8	2
77	Regional variation in paraspinal muscle composition using chemical shift encoding-based water-fat MRI. Quantitative Imaging in Medicine and Surgery, 2020, 10, 496-507.	2.0	5
78	Low-dose and sparse sampling MDCT-based femoral bone strength prediction using finite element analysis. Archives of Osteoporosis, 2020, 15, 17.	2.4	11
79	Age- and gender-related variations of cervical muscle composition using chemical shift encoding-based water-fat MRI. European Journal of Radiology, 2020, 125, 108904.	2.6	8
80	Assessment of paraspinal muscle characteristics, lumbar BMD, and their associations in routine multi-detector CT of patients with and without osteoporotic vertebral fractures. European Journal of Radiology, 2020, 125, 108867.	2.6	13
81	BraTS Toolkit: Translating BraTS Brain Tumor Segmentation Algorithms Into Clinical and Scientific Practice. Frontiers in Neuroscience, 2020, 14, 125.	2.8	50
82	T2 mapping of the distal sciatic nerve in healthy subjects and patients suffering from lumbar disc herniation with nerve compression. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 713-724.	2.0	10
83	Association of thigh and paraspinal muscle composition in young adults using chemical shift encoding-based waterâ€"fat MRI. Quantitative Imaging in Medicine and Surgery, 2020, 10, 128-136.	2.0	5
84	Image Analysis Reveals Microstructural and Volumetric Differences in Glioblastoma Patients with and without Preoperative Seizures. Cancers, 2020, 12, 994.	3.7	4
85	Cognitive impairment in early MS: contribution of white matter lesions, deep grey matter atrophy, and cortical atrophy. Journal of Neurology, 2020, 267, 2307-2318.	3.6	23
86	Predicting Vertebral Bone Strength Using Finite Element Analysis for Opportunistic Osteoporosis Screening in Routine Multidetector Computed Tomography Scansâ€"A Feasibility Study. Frontiers in Endocrinology, 2020, 11, 526332.	3.5	11
87	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.	3.5	21
88	Grading Loss: A Fracture Grade-Based Metric Loss for Vertebral Fracture Detection. Lecture Notes in Computer Science, 2020, , 733-742.	1.3	15
89	Simulation Training in Neuroangiography: Transfer to Reality. CardioVascular and Interventional Radiology, 2020, 43, 1184-1191.	2.0	6
90	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. European Radiology Experimental, 2020, 4, 35.	3.4	0

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91	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.	2.8	16
92	Improved Brachial Plexus Visualization Using an Adiabatic iMSDE-Prepared STIR 3D TSE. Clinical Neuroradiology, 2019, 29, 631-638.	1.9	25
93	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.	1.1	17
94	MDCT-based Finite Element Analysis of Vertebral Fracture Risk: What Dose is Needed?. Clinical Neuroradiology, 2019, 29, 645-651.	1.9	11
95	Association of paraspinal muscle waterâ€“fat MRI-based measurements with isometric strength measurements. European Radiology, 2019, 29, 599-608.	4.5	66
96	A Radiomics Approach to Traumatic Brain Injury Prediction in CT Scans. , 2019, , .		7
97	Vertebral bone marrow fat fraction changes in postmenopausal women with breast cancer receiving combined aromatase inhibitor and bisphosphonate therapy. BMC Musculoskeletal Disorders, 2019, 20, 515.	1.9	4
98	Prognostic value of white matter lesion shrinking in early multiple sclerosis: An intuitive or naÃ¯ve notion?. Brain and Behavior, 2019, 9, e01417.	2.2	8
99	Robust and parallel scalable iterative solutions for large-scale finite cell analyses. Finite Elements in Analysis and Design, 2019, 163, 14-30.	3.2	37
100	CSF Protein Concentration Shows No Correlation With Brain Volume Measures. Frontiers in Neurology, 2019, 10, 463.	2.4	1
101	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.	1.4	22
102	Decreased water T₂ in fatty infiltrated skeletal muscles of patients with neuromuscular diseases. NMR in Biomedicine, 2019, 32, e4111.	2.8	20
103	Bone mineral density measurements derived from dual-layer spectral CT enable opportunistic screening for osteoporosis. European Radiology, 2019, 29, 6355-6363.	4.5	46
104	Automated segmentation of changes in FLAIR-hyperintense white matter lesions in multiple sclerosis on serial magnetic resonance imaging. NeuroImage: Clinical, 2019, 23, 101849.	2.7	60
105	Tube Current Reduction in CT Angiography: How Low Can We Go in Imaging of Patients With Suspected Acute Stroke?. American Journal of Roentgenology, 2019, 213, 410-416.	2.2	4
106	Texture analysis of vertebral bone marrow using chemical shift encodingâ€“based water-fat MRI: a feasibility study. Osteoporosis International, 2019, 30, 1265-1274.	3.1	30
107	Multi-detector CT imaging: impact of virtual tube current reduction and sparse sampling on detection of vertebral fractures. European Radiology, 2019, 29, 3606-3616.	4.5	21
108	Opportunistic osteoporosis screening in multi-detector CT images via local classification of textures. Osteoporosis International, 2019, 30, 1275-1285.	3.1	72

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109	Accuracy of Unenhanced MRI in the Detection of New Brain Lesions in Multiple Sclerosis. Radiology, 2019, 291, 429-435.	7.3	46
110	Lumbar muscle and vertebral bodies segmentation of chemical shift encoding-based water-fat MRI: the reference database MyoSegmenTUM spine. BMC Musculoskeletal Disorders, 2019, 20, 152.	1.9	10
111	Improved prediction of incident vertebral fractures using opportunistic QCT compared to DXA. European Radiology, 2019, 29, 4980-4989.	4.5	99
112	Paraspinal Muscle DTI Metrics Predict Muscle Strength. Journal of Magnetic Resonance Imaging, 2019, 50, 816-823.	3.4	22
113	DXA-equivalent quantification of bone mineral density using dual-layer spectral CT scout scans. European Radiology, 2019, 29, 4624-4634.	4.5	18
114	Effect of Statistically Iterative Image Reconstruction on Vertebral Bone Strength Prediction Using Bone Mineral Density and Finite Element Modeling. Journal of Computer Assisted Tomography, 2019, 43, 61-65.	0.9	6
115	Acceleration of Double Inversion Recovery Sequences in Multiple Sclerosis With Compressed Sensing. Investigative Radiology, 2019, 54, 319-324.	6.2	28
116	Vertebral Artery Patency and Thrombectomy in Basilar Artery Occlusions. Stroke, 2019, 50, 389-395.	2.0	25
117	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.	1.3	16
118	Wavelet-based reconstruction of dynamic susceptibility MR-perfusion: a new method to visualize hypervascular brain tumors. European Radiology, 2019, 29, 2669-2676.	4.5	2
119	Differentiation of Acute/Subacute versus Old Vertebral Fractures in Multislice Detector Computed Tomography: Is Magnetic Resonance Imaging Always Needed?. World Neurosurgery, 2019, 122, e676-e683.	1.3	7
120	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.	1.3	17
121	Association of smoking but not HLA-DRB1*15:01, APOE or body mass index with brain atrophy in early multiple sclerosis. Multiple Sclerosis Journal, 2019, 25, 661-668.	3.0	12
122	High Isotropic Resolution T2 Mapping of the Lumbosacral Plexus with T2-Prepared 3D Turbo Spin Echo. Clinical Neuroradiology, 2019, 29, 223-230.	1.9	15
123	DiamondGAN: Unified Multi-modal Generative Adversarial Networks for MRI Sequences Synthesis. Lecture Notes in Computer Science, 2019, , 795-803.	1.3	36
124	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.	3.4	27
125	T2 mapping of lumbosacral nerves in patients suffering from unilateral radicular pain due to degenerative disc disease. Journal of Neurosurgery: Spine, 2019, 30, 750-758.	1.7	5
126	Multidetector Computed Tomography Imaging. Journal of Computer Assisted Tomography, 2018, 42, 441-447.	0.9	24

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127	T2-Weighted Dixon Turbo Spin Echo for Accelerated Simultaneous Grading of Whole-Body Skeletal Muscle Fat Infiltration and Edema in Patients With Neuromuscular Diseases. Journal of Computer Assisted Tomography, 2018, 42, 574-579.	0.9	12
128	Isotropic resolution diffusion tensor imaging of lumbosacral and sciatic nerves using a phaseâ€corrected diffusionâ€prepared 3D turbo spin echo. Magnetic Resonance in Medicine, 2018, 80, 609-618.	3.0	13
129	Multiâ€level hpâ€finite cell method for embedded interface problems with application in biomechanics. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2951.	2.1	28
130	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.	1.3	22
131	Feasibility of opportunistic osteoporosis screening in routine contrast-enhanced multi detector computed tomography (MDCT) using texture analysis. Osteoporosis International, 2018, 29, 825-835.	3.1	27
132	Retrospective Analysis of Radiological Recurrence Patterns in Glioblastoma, Their Prognostic Value And Association to Postoperative Infarct Volume. Scientific Reports, 2018, 8, 4561.	3.3	48
133	Effect of radiation dose reduction on texture measures of trabecular bone microstructure: an in vitro study. Journal of Bone and Mineral Metabolism, 2018, 36, 323-335.	2.7	9
134	Associations between clinical outcome and navigated transcranial magnetic stimulation characteristics in patients with motor-eloquent brain lesions: a combined navigated transcranial magnetic stimulationâ€“diffusion tensor imaging fiber tracking approach. Journal of Neurosurgery, 2018, 128, 800-810.	1.6	60
135	Orthogonally combined motionâ€and diffusionâ€sensitized driven equilibrium (OCâ€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.	3.0	16
136	Fatigue in multiple sclerosis: Associations with clinical, MRI and CSF parameters. Multiple Sclerosis Journal, 2018, 24, 1115-1125.	3.0	36
137	Revision Rate of Misplaced Pedicle Screws of the Thoracolumbar Spineâ€“Comparison of Three-Dimensional Fluoroscopy Navigation with Freehand Placement: A Systematic Analysis and Review of the Literature. World Neurosurgery, 2018, 109, e24-e32.	1.3	82
138	Prognostic Value of Tumor Volume in Glioblastoma Patients: Size Also Matters for Patients with Incomplete Resection. Annals of Surgical Oncology, 2018, 25, 558-564.	1.5	33
139	Geostatistical Analysis of White Matter Lesions in Multiple Sclerosis Identifies Gender Differences in Lesion Evolution. Frontiers in Molecular Neuroscience, 2018, 11, 460.	2.9	8
140	Longitudinal changes in subchondral bone structure as assessed with MRI are associated with functional outcome after high tibial osteotomy. Journal of ISAKOS, 2018, 3, 205-212.	2.3	5
141	Predicting brain tumor regrowth in relation to motor areas by functional brain mapping. Neuro-Oncology Practice, 2018, 5, 82-95.	1.6	4
142	CFD and MRI studies of hemodynamic changes after flow diverter implantation in a patient-specific model of the cerebral artery. Experiments in Fluids, 2018, 59, 1.	2.4	4
143	Gender- and Age-Related Changes in Trunk Muscle Composition Using Chemical Shift Encoding-Based Waterâ€“Fat MRI. Nutrients, 2018, 10, 1972.	4.1	21
144	NEWTONIAN AND NON-NEWTONIAN BLOOD FLOW AT A 90â˜-BIFURCATION OF THE CEREBRAL ARTERY: A COMPARATIVE STUDY OF FLUID VISCOSITY MODELS. Journal of Mechanics in Medicine and Biology, 2018, 18, 1850043.	0.7	13

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145	Associations Between Lumbar Vertebral Bone Marrow and Paraspinal Muscle Fat Compositionsâ€"An Investigation by Chemical Shift Encoding-Based Water-Fat MRI. Frontiers in Endocrinology, 2018, 9, 563.	3.5	39
146	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.	3.3	16
147	Anatomical Variation of Age-Related Changes in Vertebral Bone Marrow Composition Using Chemical Shift Encoding-Based Waterâ€"Fat Magnetic Resonance Imaging. Frontiers in Endocrinology, 2018, 9, 141.	3.5	65
148	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.	2.6	22
149	Effects of virtual tube current reduction and sparse sampling on MDCT-based femoral BMD measurements. Osteoporosis International, 2018, 29, 2685-2692.	3.1	11
150	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.	2.0	21
151	Thigh muscle segmentation of chemical shift encoding-based water-fat magnetic resonance images: The reference database MyoSegmenTUM. PLoS ONE, 2018, 13, e0198200.	2.5	22
152	Btrfly Net: Vertebrae Labelling with Energy-Based Adversarial Learning of Local Spine Prior. Lecture Notes in Computer Science, 2018, , 649-657.	1.3	37
153	Attention-Driven Deep Learning for Pathological Spine Segmentation. Lecture Notes in Computer Science, 2018, , 108-119.	1.3	21
154	Calcium decomposition and phantomless bone mineral density measurements using dual-layer-based spectral computed tomography. , 2018, , .		0
155	Visualization of subcortical language pathways by diffusion tensor imaging fiber tracking based on rTMS language mapping. Brain Imaging and Behavior, 2017, 11, 899-914.	2.1	38
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