

Olaf Dietrich

List of Publications by Year in descending order

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156
papers

7,605
citations

57758

44
h-index

58581

82
g-index

177
all docs

177
docs citations

177
times ranked

8811
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of signal-to-noise ratios in MR images: Influence of multichannel coils, parallel imaging, and reconstruction filters. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 26, 375-385.	3.4	809
2	Hough-CNN: Deep learning for segmentation of deep brain regions in MRI and ultrasound. <i>Computer Vision and Image Understanding</i> , 2017, 164, 92-102.	4.7	282
3	Practical approaches to the evaluation of signal-to-noise ratio performance with parallel imaging: Application with cardiac imaging and a 32-channel cardiac coil. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 748-754.	3.0	274
4	Artifacts in 3-T MRI: Physical background and reduction strategies. <i>European Journal of Radiology</i> , 2008, 65, 29-35.	2.6	216
5	Measurement of basal forebrain atrophy in Alzheimer's disease using MRI. <i>Brain</i> , 2005, 128, 2626-2644.	7.6	213
6	Influence of multichannel combination, parallel imaging and other reconstruction techniques on MRI noise characteristics. <i>Magnetic Resonance Imaging</i> , 2008, 26, 754-762.	1.8	199
7	White Matter Damage in Alzheimer Disease and Mild Cognitive Impairment: Assessment with Diffusion-Tensor MR Imaging and Parallel Imaging Techniques. <i>Radiology</i> , 2007, 243, 483-492.	7.3	197
8	Test-retest reproducibility of the default mode network in healthy individuals. <i>Human Brain Mapping</i> , 2010, 31, 237-246.	3.6	174
9	Multivariate network analysis of fiber tract integrity in Alzheimer's disease. <i>NeuroImage</i> , 2007, 34, 985-995.	4.2	162
10	High-resolution diffusion tensor imaging of human patellar cartilage: Feasibility and preliminary findings. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 993-998.	3.0	141
11	T_2 measurement in articular cartilage: Impact of the fitting method on accuracy and precision at low SNR. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 181-193.	3.0	137
12	Noise correction for the exact determination of apparent diffusion coefficients at low SNR. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 448-453.	3.0	130
13	Pulmonary Arterial Hypertension: Diagnosis with Fast Perfusion MR Imaging and High-Spatial-Resolution MR Angiography—Preliminary Experience. <i>Radiology</i> , 2005, 236, 694-703.	7.3	125
14	Technical aspects of MR diffusion imaging of the body. <i>European Journal of Radiology</i> , 2010, 76, 314-322.	2.6	121
15	High-Spatial-Resolution MR Angiography of Renal Arteries with Integrated Parallel Acquisitions: Comparison with Digital Subtraction Angiography and US. <i>Radiology</i> , 2005, 235, 687-698.	7.3	115
16	Diffusion Tensor Imaging of the Kidney With Parallel Imaging: Initial Clinical Experience. <i>Investigative Radiology</i> , 2008, 43, 677-685.	6.2	112
17	Diffusion-weighted imaging of bone marrow: current status. <i>European Radiology</i> , 2003, 13, 1699-1708.	4.5	110
18	Pulmonary Abnormalities in Immunocompromised Patients: Comparative Detection with Parallel Acquisition MR Imaging and Thin-Section Helical CT. <i>Radiology</i> , 2006, 241, 880-891.	7.3	106

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19	High-Spatial-Resolution Multistation MR Angiography with Parallel Imaging and Blood Pool Contrast Agent: Initial Experience. <i>Radiology</i> , 2006, 241, 861-872.	7.3	103
20	Articular Cartilage: In Vivo Diffusion-Tensor Imaging. <i>Radiology</i> , 2012, 262, 550-559.	7.3	103
21	Black-Blood Diffusion-Weighted EPI Acquisition of the Liver with Parallel Imaging. <i>Investigative Radiology</i> , 2008, 43, 261-266.	6.2	101
22	High-Resolution MR Imaging of the liver with T2-weighted sequences using integrated parallel imaging: Comparison of prospective motion correction and respiratory triggering. <i>Journal of Magnetic Resonance Imaging</i> , 2004, 20, 443-450.	3.4	99
23	Quantification of Pulmonary Blood Flow and Volume in Healthy Volunteers by Dynamic Contrast-Enhanced Magnetic Resonance Imaging Using a Parallel Imaging Technique. <i>Investigative Radiology</i> , 2004, 39, 537-545.	6.2	98
24	Multicenter assessment of reliability of cranial MRI. <i>Neurobiology of Aging</i> , 2006, 27, 1051-1059.	3.1	96
25	Diffusion Tensor Imaging (DTI) of the Kidney at 3 Tesla—Feasibility, Protocol Evaluation and Comparison to 1.5 Tesla. <i>Investigative Radiology</i> , 2010, 45, 245-254.	6.2	94
26	Single breath-hold real-time cine MR imaging: improved temporal resolution using generalized autocalibrating partially parallel acquisition (GRAPPA) algorithm. <i>European Radiology</i> , 2003, 13, 1931-1936.	4.5	92
27	Diffusion and perfusion imaging of bone marrow. <i>European Journal of Radiology</i> , 2010, 76, 323-328.	2.6	89
28	Diffusion-Weighted Imaging of Bone Marrow. <i>Seminars in Musculoskeletal Radiology</i> , 2009, 13, 134-144.	0.7	87
29	MR volumetric assessment of endolymphatic hydrops. <i>European Radiology</i> , 2015, 25, 585-595.	4.5	86
30	Regional networks underlying interhemispheric connectivity: An EEG and DTI study in healthy ageing and amnesic mild cognitive impairment. <i>Human Brain Mapping</i> , 2009, 30, 2098-2119.	3.6	85
31	Cardiovascular Screening with Parallel Imaging Techniques and a Whole-Body MR Imager. <i>Radiology</i> , 2005, 236, 300-310.	7.3	84
32	Diffusion-weighted MRI of the Prostate: Advantages of Zoomed EPI with Parallel-transmit-accelerated 2D-selective Excitation Imaging. <i>European Radiology</i> , 2014, 24, 3233-3241.	4.5	78
33	Fiber Connections between the Cerebral Cortex and the Corpus Callosum in Alzheimer's Disease: A Diffusion Tensor Imaging and Voxel-Based Morphometry Study. <i>Cerebral Cortex</i> , 2007, 17, 2276-2282.	2.9	74
34	Diffusion-Tensor Imaging of Human Articular Cartilage Specimens with Early Signs of Cartilage Damage. <i>Radiology</i> , 2013, 266, 831-841.	7.3	72
35	Cardiac CINE MR imaging with a 32-channel cardiac coil and parallel imaging: Impact of acceleration factors on image quality and volumetric accuracy. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 23, 222-227.	3.4	71
36	Lung MRI at 1.5 and 3 Tesla. <i>Investigative Radiology</i> , 2007, 42, 377-383.	6.2	68

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37	Methods and applications of diffusion imaging of vertebral bone marrow. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 24, 1207-1220.	3.4	66
38	Diffusion imaging of the vertebral bone marrow. <i>NMR in Biomedicine</i> , 2017, 30, e3333.	2.8	63
39	Comparison of Qualitative and Quantitative Evaluation of Diffusion-Weighted MRI and Chemical-Shift Imaging in the Differentiation of Benign and Malignant Vertebral Body Fractures. <i>American Journal of Roentgenology</i> , 2012, 199, 1083-1092.	2.2	60
40	Magnetic resonance imaging of the cervical spine: comparison of 2D T2-weighted turbo spin echo, 2D T2*weighted gradient-recalled echo and 3D T2-weighted variable flip-angle turbo spin echo sequences. <i>European Radiology</i> , 2009, 19, 713-721.	4.5	58
41	High-resolution black-blood contrast-enhanced T1-weighted images for the diagnosis and follow-up of intracranial arteritis. <i>British Journal of Radiology</i> , 2010, 83, e182-e184.	2.2	55
42	High resolution carotid black-blood 3T MR with parallel imaging and dedicated 4-channel surface coils. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009, 11, 41.	3.3	51
43	Intraindividual Comparison of High-Spatial-Resolution Abdominal MR Angiography at 1.5 T and 3.0 T: Initial Experience. <i>Radiology</i> , 2007, 244, 907-913.	7.3	49
44	Variable functional connectivity architecture of the preterm human brain: Impact of developmental cortical expansion and maturation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1201-1206.	7.1	49
45	Dual breath-hold magnetic resonance cine evaluation of global and regional cardiac function. <i>European Radiology</i> , 2007, 17, 73-80.	4.5	48
46	High-resolution renal MRA: Comparison of image quality and vessel depiction with different parallel imaging acceleration factors. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 24, 95-100.	3.4	43
47	Combined diffusion-weighted and dynamic contrast-enhanced imaging of patients with acute osteoporotic vertebral fractures. <i>European Journal of Radiology</i> , 2010, 76, 298-303.	2.6	43
48	Cardiac Steady-State Free Precession CINE Magnetic Resonance Imaging at 3.0 Tesla. <i>Investigative Radiology</i> , 2006, 41, 141-147.	6.2	42
49	Techniques for diffusion-weighted imaging of bone marrow. <i>European Journal of Radiology</i> , 2005, 55, 64-73.	2.6	41
50	Change of Diffusion Tensor Imaging Parameters in Articular Cartilage With Progressive Proteoglycan Extraction. <i>Investigative Radiology</i> , 2011, 46, 401-409.	6.2	41
51	Surrogate MRI markers for hyperthermia-induced release of doxorubicin from thermosensitive liposomes in tumors. <i>Journal of Controlled Release</i> , 2016, 237, 138-146.	9.9	40
52	Dynamic Contrast-Enhanced Computed Tomography Imaging Biomarkers Correlated With Immunohistochemistry for Monitoring the Effects of Sorafenib on Experimental Prostate Carcinomas. <i>Investigative Radiology</i> , 2012, 47, 49-57.	6.2	38
53	Diffusion-weighted imaging of the spinal column. <i>Neuroimaging Clinics of North America</i> , 2002, 12, 147-160.	1.0	36
54	Diagnosis of renal artery stenosis with magnetic resonance angiography: update 2003. <i>Nephrology Dialysis Transplantation</i> , 2003, 18, 1252-1256.	0.7	36

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55	Functional renal MR imaging: an overview. <i>Abdominal Imaging</i> , 2007, 32, 758-771.	2.0	36
56	Feasibility of Gadofosveset-Enhanced Steady-State Magnetic Resonance Angiography of the Peripheral Vessels at 3 Tesla With Dixon Fat Saturation. <i>Investigative Radiology</i> , 2008, 43, 635-641.	6.2	36
57	Transient Bone Marrow Edema Syndrome versus Osteonecrosis: Perfusion Patterns at Dynamic Contrast-enhanced MR Imaging with High Temporal Resolution Can Allow Differentiation. <i>Radiology</i> , 2017, 283, 478-485.	7.3	36
58	MR imaging differentiation of Fe ²⁺ and Fe ³⁺ based on relaxation and magnetic susceptibility properties. <i>Neuroradiology</i> , 2017, 59, 403-409.	2.2	36
59	Reducing motion artefacts in diffusion-weighted MRI of the brain: efficacy of navigator echo correction and pulse triggering. <i>Neuroradiology</i> , 2000, 42, 85-91.	2.2	35
60	Fast oxygen-enhanced multislice imaging of the lung using parallel acquisition techniques. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 1317-1325.	3.0	35
61	Quantitative Pulmonary Perfusion Magnetic Resonance Imaging. <i>Investigative Radiology</i> , 2010, 45, 7-14.	6.2	35
62	Ultra-high field diffusion tensor imaging of articular cartilage correlated with histology and scanning electron microscopy. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2011, 24, 247-258.	2.0	35
63	Diffusion-weighted imaging of the spine using radial-k-space trajectories. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2001, 12, 23-31.	2.0	34
64	A comparative evaluation of a RARE-based single-shot pulse sequence for diffusion-weighted MRI of musculoskeletal soft-tissue tumors. <i>European Radiology</i> , 2005, 15, 772-783.	4.5	34
65	Renal T2-weighted turbo-spin-echo imaging with BLADE at 3.0 Tesla: Initial experience. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 27, 148-153.	3.4	34
66	Multi-shell Diffusion MRI Models for White Matter Characterization in Cerebral Small Vessel Disease. <i>Neurology</i> , 2021, 96, e698-e708.	1.1	33
67	Quantitative analysis of vertebral bone marrow perfusion using dynamic contrast-enhanced MRI: Initial results in osteoporotic patients with acute vertebral fracture. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 33, 676-683.	3.4	32
68	JOURNAL CLUB: Quantitative Evaluation of Benign and Malignant Vertebral Fractures With Diffusion-Weighted MRI: What Is the Optimum Combination of b Values for ADC-Based Lesion Differentiation With the Single-Shot Turbo Spin-Echo Sequence?. <i>American Journal of Roentgenology</i> , 2014, 203, 582-588.	2.2	32
69	Parallel-transmit-accelerated spatially-selective excitation mri for reduced-fov diffusion-weighted-imaging of the pancreas. <i>European Journal of Radiology</i> , 2014, 83, 1709-1714.	2.6	31
70	Comparison of contrast-enhanced modified T1-weighted 3D TSE black-blood and 3D MP-RAGE sequences for the detection of cerebral metastases and brain tumours. <i>European Radiology</i> , 2016, 26, 1818-1825.	4.5	31
71	Evidence of Subcortical and Cortical Aging of the Acoustic Pathway: A Diffusion Tensor Imaging (DTI) Study. <i>Academic Radiology</i> , 2007, 14, 692-700.	2.5	30
72	Multiparameter MRI assessment of normal-appearing and diseased vertebral bone marrow. <i>European Radiology</i> , 2010, 20, 2679-2689.	4.5	30

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73	Renal MR angiography: Current debates and developments in imaging of renal artery stenosis. <i>Seminars in Ultrasound, CT and MRI</i> , 2003, 24, 255-267.	1.5	29
74	MR imaging of the cervical spine: assessment of image quality with parallel imaging compared to non-accelerated MR measurements. <i>European Radiology</i> , 2007, 17, 1147-1155.	4.5	29
75	Time-Resolved 3D Pulmonary Perfusion MRI. <i>Investigative Radiology</i> , 2009, 44, 525-531.	6.2	28
76	Quantitative Analysis of the Diffusion-Weighted Steady-State Free Precession Signal in Vertebral Bone Marrow Lesions. <i>Investigative Radiology</i> , 2011, 46, 601-609.	6.2	27
77	Assessment of Pulmonary Perfusion With Breath-Hold and Free-Breathing Dynamic Contrast-Enhanced Magnetic Resonance Imaging. <i>Investigative Radiology</i> , 2014, 49, 382-389.	6.2	26
78	Measurement of perfusion and permeability from dynamic contrast-enhanced MRI in normal and pathological vertebral bone marrow. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 115-124.	3.0	24
79	Diffusion-weighted imaging of the spine using radial k-space trajectories. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2001, 12, 23-31.	2.0	23
80	Nonuniform Fourier decomposition MRI for ventilation and perfusion-weighted imaging of the lung. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 1312-1321.	3.0	23
81	MRI of respiratory dynamics with 2D steady-state free-precession and 2D gradient echo sequences at 1.5 and 3 Tesla: an observer preference study. <i>European Radiology</i> , 2009, 19, 391-399.	4.5	22
82	Perfusion MRI for Monitoring the Effect of Sorafenib on Experimental Prostate Carcinoma: A Validation Study. <i>American Journal of Roentgenology</i> , 2012, 198, 384-391.	2.2	22
83	Feasibility of spectral CT imaging for the detection of liver lesions with gold-based contrast agents – A simulation study. <i>Physica Medica</i> , 2015, 31, 875-881.	0.7	22
84	Gel dosimetry for three dimensional proton range measurements in anthropomorphic geometries. <i>Zeitschrift Fur Medizinische Physik</i> , 2019, 29, 162-172.	1.5	22
85	Altered relaxation times in MRI indicate bronchopulmonary dysplasia. <i>Thorax</i> , 2020, 75, 184-187.	5.6	22
86	Myocardial Perfusion Imaging With Gadobutrol: A Comparison Between 3 and 1.5 Tesla With an Identical Sequence Design. <i>Investigative Radiology</i> , 2007, 42, 499-506.	6.2	21
87	Feasibility of a RARE-based sequence for quantitative diffusion-weighted MRI of the spine. <i>European Radiology</i> , 2007, 17, 2872-2879.	4.5	21
88	Half-Fourier acquisition single-shot turbo spin-echo (HASTE) MRI of the lung at 3 Tesla using parallel imaging with 32-receiver channel technology. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 541-546.	3.4	21
89	MRA of abdominal vessels: technical advances. <i>European Radiology</i> , 2006, 16, 1637-1650.	4.5	19
90	Detection of single-phase CTA occult vessel occlusions in acute ischemic stroke using CT perfusion-based wavelet-transformed angiography. <i>European Radiology</i> , 2017, 27, 2657-2664.	4.5	19

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91	Clinically Approved MRI Contrast Agents as Imaging Labels for a Porous Iron-Based MOF Nanocarrier: A Systematic Investigation in a Clinical MRI Setting. <i>Advanced Therapeutics</i> , 2020, 3, 1900126.	3.2	19
92	Intravoxel Incoherent Motion Magnetic Resonance Imaging in Partially Nephrectomized Kidneys. <i>Investigative Radiology</i> , 2016, 51, 323-330.	6.2	18
93	Analyzing the co-localization of substantia nigra hyper-echogenicities and iron accumulation in Parkinson's disease: A multi-modal atlas study with transcranial ultrasound and MRI. <i>NeuroImage: Clinical</i> , 2020, 26, 102185.	2.7	18
94	Quantitative and qualitative characterization of vascularization and hemodynamics in head and neck tumors with a 3D magnetic resonance time-resolved echo-shared angiographic technique (TREAT)-initial results. <i>European Radiology</i> , 2007, 17, 1101-1110.	4.5	16
95	Improved detection of a tumorous involvement of the mesorectal fascia and locoregional lymph nodes in locally advanced rectal cancer using DCE-MRI. <i>International Journal of Colorectal Disease</i> , 2018, 33, 901-909.	2.2	16
96	Myocardial First Pass Perfusion Imaging With Gadobutrol. <i>Investigative Radiology</i> , 2007, 42, 522-528.	6.2	15
97	Magnetic resonance noise measurements and signal-quantization effects at very low noise levels. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 1477-1487.	3.0	15
98	Voxel-based reproducibility of T2 relaxation time in patellar cartilage at 1.5 T with a new validated 3D rigid registration algorithm. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2009, 22, 229-239.	2.0	15
99	Thoracic and abdominal MRA with gadofosveset: Influence of injection rate on vessel signal and image quality. <i>European Radiology</i> , 2009, 19, 1932-1938.	4.5	15
100	Gadofosveset. <i>Investigative Radiology</i> , 2011, 46, 678-685.	6.2	13
101	Hepatic steatosis: Effect on hepatocyte enhancement with gadoxetate disodium-enhanced liver MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 42-50.	3.4	13
102	Animal tissue-based quantitative comparison of dual-energy CT to SPR conversion methods using high-resolution gel dosimetry. <i>Physics in Medicine and Biology</i> , 2021, 66, 075009.	3.0	13
103	Basics of Magnetic Resonance Imaging and Magnetic Resonance Spectroscopy. , 2008, , 3-167.		12
104	Analysis of Signal Dynamics in Oxygen-Enhanced Magnetic Resonance Imaging. <i>Investigative Radiology</i> , 2010, 45, 165-173.	6.2	12
105	Assessment of intravoxel incoherent motion MRI with an artificial capillary network: analysis of biexponential and phase-distribution models. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 1373-1384.	3.0	12
106	Diffusion-weighted imaging of the brain: comparison of stimulated- and spin-echo echo-planar sequences. <i>Neuroradiology</i> , 2001, 43, 442-447.	2.2	11
107	Wavelet-based calculation of cerebral angiographic data from time-resolved CT perfusion acquisitions. <i>European Radiology</i> , 2015, 25, 2354-2361.	4.5	11
108	Detection of pulmonary embolism with free-breathing dynamic contrast-enhanced MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 887-893.	3.4	11

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109	Free Breathing Real-Time Cardiac Cine Imaging With Improved Spatial Resolution at 3 T. Investigative Radiology, 2013, 48, 158-166.	6.2	10
110	Individually unique dynamics of cortical connectivity reflect the ongoing intensity of chronic pain. Pain, 2022, 163, 1987-1998.	4.2	10
111	Oxygen-Enhanced MRI of the Lungs: Intraindividual Comparison Between 1.5 and 3 Tesla. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2011, 183, 358-364.	1.3	9
112	Imaging cell size and permeability in biological tissue using the diffusion-time dependence of the apparent diffusion coefficient. Physics in Medicine and Biology, 2014, 59, 3081-3096.	3.0	9
113	T1 relaxation time constants, influence of oxygen, and the oxygen transfer function of the human lung at 1.5 T: A meta-analysis. European Journal of Radiology, 2017, 86, 252-260.	2.6	9
114	Value of oxygen-enhanced MRI of the lungs in patients with pulmonary hypertension: A qualitative and quantitative approach. Journal of Magnetic Resonance Imaging, 2012, 35, 86-94.	3.4	8
115	Measurement-based range evaluation for quality assurance of CBCT-based dose calculations in adaptive proton therapy. Medical Physics, 2021, 48, 4148-4159.	3.0	8
116	Monitoring Early Response to Anti-Angiogenic Therapy: Diffusion-Weighted Magnetic Resonance Imaging and Volume Measurements in Colon Carcinoma Xenografts. PLoS ONE, 2014, 9, e106970.	2.5	8
117	Quantification of Pulmonary Perfusion with Free-Breathing Dynamic Contrast-Enhanced MRI – A Pilot Study in Healthy Volunteers. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2013, 185, 1175-1181.	1.3	7
118	In vivo monitoring of sorafenib therapy effects on experimental prostate carcinomas using dynamic contrast-enhanced MRI and macromolecular contrast media. Cancer Imaging, 2013, 13, 557-566.	2.8	7
119	Validation of a method to differentiate arterial and venous vessels in CT perfusion data using linear combinations of quantitative time-density curve characteristics. European Radiology, 2015, 25, 2937-2944.	4.5	7
120	Bayesian pharmacokinetic modeling of dynamic contrast-enhanced magnetic resonance imaging: validation and application. Physics in Medicine and Biology, 2019, 64, 18NT02.	3.0	6
121	Tuning the Synergistic Interplay between Clinical MRI Contrast Agents and MR-Active Metal-Organic Framework Nanoparticles. Chemistry of Materials, 2022, 34, 3862-3871.	6.7	6
122	Myocardial tagging with steady state free precession techniques and semi-automatic postprocessing: impact on diagnostic value. European Radiology, 2007, 17, 2218-2224.	4.5	5
123	Flip angle-optimized fast dynamic T ₁ mapping with a 3D gradient echo sequence. Magnetic Resonance in Medicine, 2015, 73, 1158-1163.	3.0	5
124	Physiological Background of Differences in Quantitative Diffusion-Weighted Magnetic Resonance Imaging Between Acute Malignant and Benign Vertebral Body Fractures. Journal of Computer Assisted Tomography, 2015, 39, 643-648.	0.9	5
125	Single-Shot Pulse Sequences. , 2007, , 119-126.		5
126	Improving the modelling of susceptibility-induced spatial distortions in MRI-guided extra-cranial radiotherapy. Physics in Medicine and Biology, 2019, 64, 205006.	3.0	3

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127	MRI from k-Space to Parallel Imaging. , 2007, , 3-17.		3
128	Early risk stratification in preterm infants with Bronchopulmonary Dysplasia via pulmonary arterial flow measurements in MRI. , 2020, , .		3
129	Evaluation of an anthropomorphic ion chamber and 3D gel dosimetry head phantom at a 0.35 T MR-linac using separate 1.5 T MR-scanners for gel readout. Zeitschrift Fur Medizinische Physik, 2022, , .	1.5	3
130	Improving material decomposition by spectral optimization of photon counting computed tomography. Proceedings of SPIE, 2016, , .	0.8	2
131	Technical Note: Quantitative dynamic contrast-enhanced MRI of a 3-dimensional artificial capillary network. Medical Physics, 2017, 44, 1462-1469.	3.0	2
132	Oxygen-Enhanced Imaging of the Lung. , 2007, , 429-440.		2
133	Artifact reduction of coaxial needles in magnetic resonance imaging-guided abdominal interventions at 1.5 T: a phantom study. Scientific Reports, 2021, 11, 22963.	3.3	2
134	End-to-End Deep Learning Approach for Perfusion Data: A Proof-of-Concept Study to Classify Core Volume in Stroke CT. Diagnostics, 2022, 12, 1142.	2.6	2
135	Techniques for Diffusion and Perfusion Assessment in Bone-Marrow MRI. Medical Radiology, 2013, , 339-354.	0.1	1
136	Quantification of Pulmonary Perfusion with Free-Breathing Dynamic Contrast-Enhanced MRI â€“ A Pilot Study in Healthy Volunteers. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2013, 185, e2-e2.	1.3	1
137	Material Characterization of Dual-Energy Computed Tomographic Data Using Polar Coordinates. Journal of Computer Assisted Tomography, 2015, 39, 134-139.	0.9	1
138	Classification of arterial and venous cerebral vasculature based on wavelet postprocessing of CT perfusion data. Medical Physics, 2016, 43, 702-709.	3.0	1
139	Proton MRI Based Ventilation Imaging: Oxygen-Enhanced Lung MRI and Alternative Approaches. Medical Radiology, 2016, , 137-162.	0.1	1
140	PO-1004 Simulation of tissue dependent magnetic field susceptibility effects in MRI guided radiotherapy. Radiotherapy and Oncology, 2019, 133, S554-S555.	0.6	1
141	Integration of spatial distortion effects in a 4D computational phantom for simulation studies in extra-cranial MRI-guided radiation therapy: Initial results. Medical Physics, 2021, 48, 1646-1660.	3.0	1
142	Diffusion-weighted MRI of the bone marrow and the spine. , 0, , 144-161.		0
143	P3-069 Reliability of multicenter MRI. Results of a phantom test and in vivo MRI measurement. Neurobiology of Aging, 2004, 25, S372.	3.1	0
144	P2-229 Fiber tract integrity in Alzheimer's disease: a voxel-based analysis of regional changes in fractional anisotropy. Neurobiology of Aging, 2004, 25, S297.	3.1	0

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145	Correction to: British Journal of Radiology (2010) 83, e182-e184 doi: 10.1259/bjr/74101656. British Journal of Radiology, 2010, 83, 1090-1090.	2.2	0
146	Erratum to "Combined diffusion-weighted and dynamic contrast-enhanced imaging of patients with acute osteoporotic vertebral fractures" [Eur. J. Radiol. 76 (2010) 298-303]. European Journal of Radiology, 2011, 77, 528.	2.6	0
147	Feasibility study of spectral computed tomography (CT) with gold as a new contrast agent. Proceedings of SPIE, 2014, , .	0.8	0
148	Development and evaluation of a novel designed breast CT system. , 2014, , .		0
149	Improving material separation of high-flux whole-body photon counting computed tomography by K-edge pre-filtration. , 2017, , .		0
150	PO-0809: A 3D polymer gel dosimeter coupled to a patient-specific anthropomorphic phantom for proton therapy. Radiotherapy and Oncology, 2017, 123, S432-S433.	0.6	0
151	Performing Diffusion Tensor and Functional MRI in Patients with Metallic Braces. Radiology, 2020, 294, 158-159.	7.3	0
152	Detecting COVID-19-related Chronic Pulmonary Injury with ¹²⁹ Xe MRI. Radiology, 2021, 301, E373-E374.	7.3	0
153	Technical Prerequisites. Medical Radiology, 2008, , 77-126.	0.1	0
154	LSC Abstract "Early biomarkers indicating the development of neonatal chronic lung disease defined by clinical and imaging parameters. , 2016, , .		0
155	MRI of Pulmonary Ventilation. Medical Radiology, 2009, , 35-90.	0.1	0
156	Design of Parallel-Imaging Protocols. , 2007, , 169-172.		0