

Klaus Scheffler

List of Publications by Year in descending order

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364
papers

14,726
citations

22153

59
h-index

34986

98
g-index

385
all docs

385
docs citations

385
times ranked

14320
citing authors

#	ARTICLE	IF	CITATIONS
1	Principles and applications of balanced SSFP techniques. <i>European Radiology</i> , 2003, 13, 2409-2418.	4.5	587
2	Processing of Temporal Unpredictability in Human and Animal Amygdala. <i>Journal of Neuroscience</i> , 2007, 27, 5958-5966.	3.6	379
3	Cortical and Subcortical Correlates of Electroencephalographic Alpha Rhythm Modulation. <i>Journal of Neurophysiology</i> , 2005, 93, 2864-2872.	1.8	325
4	Signal-to-noise ratio and MR tissue parameters in human brain imaging at 3, 7, and 9.4 tesla using current receive coil arrays. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 801-809.	3.0	299
5	Neural Correlates of Antinociception in Borderline Personality Disorder. <i>Archives of General Psychiatry</i> , 2006, 63, 659.	12.3	263
6	Multiecho sequences with variable refocusing flip angles: Optimization of signal behavior using smooth transitions between pseudo steady states (TRAPS). <i>Magnetic Resonance in Medicine</i> , 2003, 49, 527-535.	3.0	222
7	Auditory cortical responses in hearing subjects and unilateral deaf patients as detected by functional magnetic resonance imaging. <i>Cerebral Cortex</i> , 1998, 8, 156-163.	2.9	204
8	Spatiotemporal Pattern of Neural Processing in the Human Auditory Cortex. <i>Science</i> , 2002, 297, 1706-1708.	12.6	197
9	Hyperechoes. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 6-12.	3.0	196
10	Fundamentals of balanced steady state free precession MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 2-11.	3.4	176
11	Magnetization preparation during the steady state: Fat-saturated 3D TrueFISP. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 1075-1080.	3.0	175
12	Is TrueFISP a gradient-echo or a spin-echo sequence?. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 395-397.	3.0	172
13	T1 quantification with inversion recovery TrueFISP. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 720-723.	3.0	170
14	A 16-channel dual-row transmit array in combination with a 31-element receive array for human brain imaging at 9.4 T. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 870-879.	3.0	162
15	Fast track to the neocortex: A memory engram in the posterior parietal cortex. <i>Science</i> , 2018, 362, 1045-1048.	12.6	145
16	Tonotopic organization of the human auditory cortex as detected by BOLD-fMRI. <i>Hearing Research</i> , 1998, 126, 19-27.	2.0	140
17	Blood Oxygenation Level-Dependent Magnetic Resonance Imaging of the Skeletal Muscle in Patients With Peripheral Arterial Occlusive Disease. <i>Circulation</i> , 2006, 113, 2929-2935.	1.6	134
18	Cortical reorganization after acute unilateral hearing loss traced by fMRI. <i>Neurology</i> , 2000, 54, 765-765.	1.1	132

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19	Neural Processing of Auditory Looming in the Human Brain. <i>Current Biology</i> , 2002, 12, 2147-2151.	3.9	131
20	Analysis and compensation of eddy currents in balanced SSFP. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 129-137.	3.0	131
21	Rising Sound Intensity: An Intrinsic Warning Cue Activating the Amygdala. <i>Cerebral Cortex</i> , 2008, 18, 145-150.	2.9	131
22	In Vivo Biochemical 7.0 Tesla Magnetic Resonance. <i>Investigative Radiology</i> , 2008, 43, 619-626.	6.2	130
23	Quantitative magnetization transfer imaging using balanced SSFP. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 691-700.	3.0	128
24	A pictorial description of steady-states in rapid magnetic resonance imaging. <i>Concepts in Magnetic Resonance</i> , 1999, 11, 291-304.	1.3	126
25	Selective Insulin Resistance in Homeostatic and Cognitive Control Brain Areas in Overweight and Obese Adults. <i>Diabetes Care</i> , 2015, 38, 1044-1050.	8.6	126
26	Time-resolved projection angiography after bolus injection of contrast agent. <i>Magnetic Resonance in Medicine</i> , 1997, 37, 341-345.	3.0	125
27	On the transient phase of balanced SSFP sequences. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 781-783.	3.0	119
28	Reduced circular field-of-view imaging. <i>Magnetic Resonance in Medicine</i> , 1998, 40, 474-480.	3.0	116
29	Structural and functional imaging approaches in attention deficit/hyperactivity disorder: Does the temporal lobe play a key role?. <i>Psychiatry Research - Neuroimaging</i> , 2010, 183, 230-236.	1.8	115
30	Ultra-Slow Single-Vessel BOLD and CBV-Based fMRI Spatiotemporal Dynamics and Their Correlation with Neuronal Intracellular Calcium Signals. <i>Neuron</i> , 2018, 97, 925-939.e5.	8.1	113
31	Musical Training Induces Functional Plasticity in Human Hippocampus. <i>Journal of Neuroscience</i> , 2010, 30, 1377-1384.	3.6	112
32	Specific white matter tissue microstructure changes associated with obesity. <i>NeuroImage</i> , 2016, 125, 36-44.	4.2	106
33	Calculation of flip angles for echo trains with predefined amplitudes with the extended phase graph (EPC)-algorithm: Principles and applications to hyperecho and TRAPS sequences. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 68-80.	3.0	105
34	²³ Na MR Imaging at 7 T after Knee Matrixâ€‘associated Autologous Chondrocyte Transplantation Preliminary Results. <i>Radiology</i> , 2010, 257, 175-184.	7.3	103
35	On the origin of apparent low tissue signals in balanced SSFP. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 1067-1074.	3.0	102
36	MR angiography of dural arteriovenous fistulas: diagnosis and follow-up after treatment using a time-resolved 3D contrast-enhanced technique. <i>American Journal of Neuroradiology</i> , 2007, 28, 877-84.	2.4	102

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37	In vivo assessment and visualization of intracranial arterial hemodynamics with flow-sensitized 4D MR imaging at 3T. American Journal of Neuroradiology, 2007, 28, 433-8.	2.4	98
38	Detection of BOLD changes by means of a frequency-sensitive trueFISP technique: preliminary results. NMR in Biomedicine, 2001, 14, 490-496.	2.8	97
39	Safety testing and operational procedures for self-developed radiofrequency coils. NMR in Biomedicine, 2016, 29, 1131-1144.	2.8	91
40	Motor, somatosensory and auditory cortex localization by fMRI and MEG. NeuroReport, 1998, 9, 1953-1957.	1.2	89
41	Dynamic susceptibility contrast MR imaging of plaque development in multiple sclerosis: Application of an extended blood-brain barrier leakage correction. Journal of Magnetic Resonance Imaging, 2000, 11, 495-505.	3.4	88
42	Effects of methylphenidate on working memory functioning in children with attention deficit/hyperactivity disorder. European Journal of Paediatric Neurology, 2009, 13, 516-523.	1.6	88
43	Analysis of input functions from different arterial branches with gamma variate functions and cluster analysis for quantitative blood volume measurements. Magnetic Resonance Imaging, 2000, 18, 1235-1243.	1.8	85
44	A 3D in vitro bone organ model using human progenitor cells. , 2011, 21, 445-458.		85
45	Single-breathhold 3D-trueFISP cine cardiac imaging. Magnetic Resonance in Medicine, 2002, 48, 921-925.	3.0	83
46	QUEST and QUEST revisited – fast and accurate quantitative CEST experiments. Magnetic Resonance in Medicine, 2018, 79, 1708-1721.	3.0	82
47	Cerebral Venous Thrombosis: Diagnostic Accuracy of Combined, Dynamic and Static, Contrast-Enhanced 4D MR Venography. American Journal of Neuroradiology, 2010, 31, 527-535.	2.4	81
48	Alternating repetition time balanced steady state free precession. Magnetic Resonance in Medicine, 2006, 55, 557-565.	3.0	79
49	Dynamic reconfiguration of human brain functional networks through neurofeedback. NeuroImage, 2013, 81, 243-252.	4.2	79
50	Rapid estimation of cartilage T2 based on double echo at steady state (DESS) with 3 Tesla. Magnetic Resonance in Medicine, 2009, 62, 544-549.	3.0	77
51	Functional quantitative susceptibility mapping (fQSM). NeuroImage, 2014, 100, 112-124.	4.2	76
52	Snapshot-CEST: Optimizing spiral-centric-reordered gradient echo acquisition for fast and robust 3D CEST MRI at 9.4T. NMR in Biomedicine, 2018, 31, e3879.	2.8	76
53	Enhancing BOLD response in the auditory system by neurophysiologically tuned fMRI sequence. NeuroImage, 2006, 29, 1013-1022.	4.2	72
54	Mediterranean Diet, Alzheimer Disease Biomarkers, and Brain Atrophy in Old Age. Neurology, 2021, 96, .	1.1	72

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55	Three distinct fiber pathways of the bed nucleus of the stria terminalis to the amygdala and prefrontal cortex. <i>Cortex</i> , 2015, 66, 60-68.	2.4	71
56	Calf Muscles Imaged at BOLD MR: Correlation with TcPo2 and Flowmetry Measurements during Ischemia and Reactive Hyperemia—Initial Experience. <i>Radiology</i> , 2006, 241, 477-484.	7.3	69
57	Magnetization transfer contrast and T2 mapping in the evaluation of cartilage repair tissue with 3T MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 979-986.	3.4	69
58	Biochemical (T2, T2* and magnetisation transfer ratio) MRI of knee cartilage: feasibility at ultra-high field (7T) compared with high field (3T) strength. <i>European Radiology</i> , 2011, 21, 1136-1143.	4.5	68
59	Functional anatomy of the human thalamus at rest. <i>NeuroImage</i> , 2017, 147, 678-691.	4.2	68
60	Volitional regulation of brain responses to food stimuli in overweight and obese subjects: A real-time fMRI feedback study. <i>Appetite</i> , 2017, 112, 188-195.	3.7	66
61	Differential patterns of multisensory interactions in core and belt areas of human auditory cortex. <i>NeuroImage</i> , 2006, 31, 294-300.	4.2	64
62	Quantification of fat infiltration in oculopharyngeal muscular dystrophy: Comparison of three MR imaging methods. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 33, 203-210.	3.4	63
63	Different duration of at-risk mental state associated with neurofunctional abnormalities. A multimodal imaging study. <i>Human Brain Mapping</i> , 2012, 33, 2281-2294.	3.6	63
64	Intranasal insulin enhances brain functional connectivity mediating the relationship between adiposity and subjective feeling of hunger. <i>Scientific Reports</i> , 2017, 7, 1627.	3.3	63
65	Three-dimensional strain fields in human brain resulting from formalin fixation. <i>Journal of Neuroscience Methods</i> , 2011, 202, 17-27.	2.5	62
66	Effect of T_1 and T_2 relaxivity of gadolinium-based contrast agents on the T_1 -weighted MR signal at increasing magnetic field strengths. <i>Contrast Media and Molecular Imaging</i> , 2013, 8, 456-465.	0.8	62
67	A theoretical and experimental comparison of different techniques for B_1 mapping at very high fields. <i>NMR in Biomedicine</i> , 2013, 26, 265-275.	2.8	62
68	Amplitude of the Human Auditory Cortex: An fMRI Study. <i>NeuroImage</i> , 2002, 17, 710-718.	4.2	61
69	PKC ζ is genetically linked to memory capacity in healthy subjects and to risk for posttraumatic stress disorder in genocide survivors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8746-8751.	7.1	61
70	Angiotensin II Decreases the Renal MRI Blood Oxygenation Level-Dependent Signal. <i>Hypertension</i> , 2006, 47, 1062-1066.	2.7	59
71	MR-based field-of-view extension in MR/PET: B_0 homogenization using gradient enhancement (HUGE). <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1047-1057.	3.0	58
72	Temporal integration of sequential auditory events: silent period in sound pattern activates human planum temporale. <i>NeuroImage</i> , 2003, 20, 429-434.	4.2	57

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73	Functional MRI in human subjects with gradient-echo and spin-echo EPI at 9.4 T. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 209-218.	3.0	57
74	Effect of ethanol on BOLD response to acoustic stimulation: implications for neuropharmacological fMRI. <i>Psychiatry Research - Neuroimaging</i> , 2000, 99, 1-13.	1.8	55
75	Extended phase graphs with anisotropic diffusion. <i>Journal of Magnetic Resonance</i> , 2010, 205, 276-285.	2.1	55
76	Differences Between MEG and High-Density EEG Source Localizations Using a Distributed Source Model in Comparison to fMRI. <i>Brain Topography</i> , 2015, 28, 87-94.	1.8	55
77	3D gradient echo snapshot CEST MRI with low power saturation for human studies at 3T. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2412-2423.	3.0	54
78	Frequency resolved single-shot MR imaging using stochastic k -space trajectories. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 569-576.	3.0	52
79	Cerebral Dural Arteriovenous Fistulas. <i>American Journal of Roentgenology</i> , 2000, 174, 1293-1295.	2.2	52
80	A polymer-based MR-compatible guidewire: A study to explore new prospects for interventional peripheral magnetic resonance angiography (ipMRA). <i>Journal of Magnetic Resonance Imaging</i> , 2006, 23, 145-155.	3.4	52
81	Optimized balanced steady-state free precession magnetization transfer imaging. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 511-518.	3.0	52
82	Functional Fields in Human Auditory Cortex Revealed by Time-Resolved fMRI without Interference of EPI Noise. <i>NeuroImage</i> , 2001, 13, 328-338.	4.2	51
83	Superresolution in MRI?. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 408-408.	3.0	50
84	Optimization of signal behavior in the transition to driven equilibrium in steady-state free precession sequences. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 801-809.	3.0	50
85	Feasibility of in vivo myelin water imaging using 3D multigradient-echo pulse sequences. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 523-528.	3.0	50
86	Spatial representations of temporal and spectral sound cues in human auditory cortex. <i>Cortex</i> , 2013, 49, 2822-2833.	2.4	50
87	Contrast-Enhanced Subtraction MR Angiography in Occlusive Disease of the Pelvic and Lower Limb Arteries: Results of a Prospective Intraindividual Comparative Study with Digital Subtraction Angiography in 76 Patients. <i>Journal of Computer Assisted Tomography</i> , 1999, 23, 583-589.	0.9	50
88	Easy improvement of signal-to-noise in RARE-sequences with low refocusing flip angles. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 983-985.	3.0	49
89	Are TrueFISP images T2/T1-weighted?. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 684-688.	3.0	49
90	Flow compensation in balanced SSFP sequences. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 901-907.	3.0	49

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91	Decreased fractional anisotropy in the middle cerebellar peduncle in children with epilepsy and/or attention deficit/hyperactivity disorder: A preliminary study. <i>Epilepsy and Behavior</i> , 2009, 15, 294-298.	1.7	49
92	The impact of vessel size, orientation and intravascular contribution on the neurovascular fingerprint of BOLD bSSFP fMRI. <i>NeuroImage</i> , 2017, 163, 13-23.	4.2	49
93	Quantification of hydroxyl exchange of D-glucose at physiological conditions for optimization of glucoCEST MRI at 3, 7 and 9.4 Tesla. <i>NMR in Biomedicine</i> , 2019, 32, e4113.	2.8	49
94	The anterior and medial thalamic nuclei and the human limbic system: tracing the structural connectivity using diffusion-weighted imaging. <i>Scientific Reports</i> , 2020, 10, 10957.	3.3	49
95	Three-layered radio frequency coil arrangement for sodium MRI of the human brain at 9.4 Tesla. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 906-916.	3.0	48
96	DeepCEST 3T: Robust MRI parameter determination and uncertainty quantification with neural networks—application to CEST imaging of the human brain at 3T. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 450-466.	3.0	48
97	Quantitative in vivo diffusion imaging of cartilage using double echo steady-state free precession. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 720-729.	3.0	47
98	Dose-Dependent Effects of Intranasal Insulin on Resting-State Brain Activity. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018, 103, 253-262.	3.6	47
99	Frontocortical N-acetylaspartate reduction associated with long-term IV heroin use. <i>Neurology</i> , 2002, 58, 305-307.	1.1	45
100	Dynamic contrast enhancement of paragangliomas of the head and neck: evaluation with time-resolved 2D MR projection angiography. <i>European Radiology</i> , 2003, 13, 1608-1611.	4.5	45
101	Field of view extension and truncation correction for MR-based human attenuation correction in simultaneous MR/PET imaging. <i>Medical Physics</i> , 2014, 41, 022303.	3.0	45
102	Human in-vivo brain magnetic resonance current density imaging (MRCDI). <i>NeuroImage</i> , 2018, 171, 26-39.	4.2	44
103	Contrast-Enhanced Magnetic Resonance Angiography of Peripheral Vessels. <i>Investigative Radiology</i> , 1998, 33, 538-546.	6.2	44
104	Neuroendocrine Regulation and Metabolism of Glucose and Lipids in Primary Chronic Insomnia: A Prospective Case-Control Study. <i>PLoS ONE</i> , 2013, 8, e61780.	2.5	44
105	Arterial first pass gadolinium-CM dynamics as a function of several intravenous saline flush and Gd volumes. <i>Journal of Magnetic Resonance Imaging</i> , 2001, 13, 568-576.	3.4	43
106	Hybrid Ultrasound/Magnetic Resonance Simultaneous Acquisition and Image Fusion for Motion Monitoring in the Upper Abdomen. <i>Investigative Radiology</i> , 2013, 48, 333-340.	6.2	43
107	High-resolution quantitative sodium imaging at 9.4 tesla. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 342-351.	3.0	43
108	T1-based dynamic glucose-enhanced (DCE) MRI at 3 T: method development and early clinical experience in the human brain. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 1832-1847.	3.0	43

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109	Fast31P chemical shift imaging using SSFP methods. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 633-639.	3.0	42
110	Fast frequency mapping with balanced SSFP: Theory and application to proton-resonance frequency shift thermometry. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 1205-1211.	3.0	42
111	Multicenter Study of Subjective Acceptance During Magnetic Resonance Imaging at 7 and 9.4 T. <i>Investigative Radiology</i> , 2014, 49, 249-259.	6.2	42
112	Ultra-high resolution imaging of the human brain using acquisition-weighted imaging at 9.4T. <i>NeuroImage</i> , 2014, 86, 592-598.	4.2	42
113	Real-time method for motion-compensated MR thermometry and MRgHIFU treatment in abdominal organs. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 1087-1095.	3.0	41
114	Numerical and experimental evaluation of RF shimming in the human brain at 9.4T using a dual-row transmit array. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2014, 27, 373-386.	2.0	41
115	Possible artifacts in dynamic CEST MRI due to motion and field alterations. <i>Journal of Magnetic Resonance</i> , 2019, 298, 16-22.	2.1	41
116	Fast functional MRA using time-resolved projection MR angiography with correlation analysis. <i>Magnetic Resonance in Medicine</i> , 2000, 43, 303-309.	3.0	40
117	Whole brain MP2RAGE-based mapping of the longitudinal relaxation time at 9.4T. <i>NeuroImage</i> , 2017, 144, 203-216.	4.2	40
118	Time-resolved 3D contrast-enhanced MRA with GRAPPA on a 1.5-T system for imaging of craniocervical vascular disease: initial experience. <i>Neuroradiology</i> , 2006, 48, 291-299.	2.2	39
119	Effect of diffusion in inhomogeneous magnetic fields on balanced steady-state free precession. <i>NMR in Biomedicine</i> , 2007, 20, 1-10.	2.8	39
120	Signal characteristics of focal bone marrow lesions in patients with multiple myeloma using whole body T1w-TSE, T2w-STIR and diffusion-weighted imaging with background suppression. <i>European Radiology</i> , 2011, 21, 857-862.	4.5	39
121	Muscular involvement assessed by MRI correlates to motor function measurement values in oculopharyngeal muscular dystrophy. <i>Journal of Neurology</i> , 2011, 258, 1333-1340.	3.6	39
122	Titration of the BOLD effect: Separation and quantitation of blood volume and oxygenation changes in the human cerebral cortex during neuronal activation and ferumoxide infusion. <i>Magnetic Resonance in Medicine</i> , 1999, 42, 829-836.	3.0	38
123	High-resolution Fourier-encoded submillisecond echo time musculoskeletal imaging at 3 Tesla and 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1434-1439.	3.0	38
124	Cerebrospinal fluid biogenic amines depletion and brain atrophy in adult patients with phenylketonuria. <i>Journal of Inherited Metabolic Disease</i> , 2019, 42, 398-406.	3.6	38
125	A smart ¹⁹ F and ¹ H MRI probe with self-immolative linker as a versatile tool for detection of enzymes. <i>Contrast Media and Molecular Imaging</i> , 2012, 7, 478-483.	0.8	37
126	Assessing White Matter Microstructure in Brain Regions with Different Myelin Architecture Using MRI. <i>PLoS ONE</i> , 2016, 11, e0167274.	2.5	37

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127	Face-n-Food: Gender Differences in Tuning to Faces. PLoS ONE, 2015, 10, e0130363.	2.5	37
128	Assessment of magnetization transfer effects in myocardial tissue using balanced steady-state free precession (bSSFP) cine MRI. Magnetic Resonance in Medicine, 2009, 62, 699-705.	3.0	36
129	Neural effects of green tea extract on dorsolateral prefrontal cortex. European Journal of Clinical Nutrition, 2012, 66, 1187-1192.	2.9	36
130	MR spectroscopy for in vivo assessment of the oncometabolite 2-hydroxyglutarate and its effects on cellular metabolism in human brain gliomas at 9.4T. Journal of Magnetic Resonance Imaging, 2016, 44, 823-833.	3.4	36
131	Balanced alternating steady-state elastography. Magnetic Resonance in Medicine, 2006, 55, 233-241.	3.0	35
132	Attention-deficit/hyperactivity disorder in childhood epilepsy: A neuropsychological and functional imaging study. Epilepsia, 2012, 53, 325-333.	5.1	35
133	SSFP signal with finite RF pulses. Magnetic Resonance in Medicine, 2009, 62, 1232-1241.	3.0	34
134	Effect of temporal resolution and serial autocorrelations in event-related functional MRI. Magnetic Resonance in Medicine, 2016, 76, 1805-1813.	3.0	34
135	Evaluation of transmit efficiency and SAR for a tight fit transceiver human head phased array at 9.4T. NMR in Biomedicine, 2017, 30, e3680.	2.8	34
136	Hydro-MRI for the visualization of gastric wall motility using RARE magnetic resonance imaging sequences. Abdominal Imaging, 2000, 25, 30-34.	2.0	33
137	fMRI of the auditory system: understanding the neural basis of auditory gestalt. Magnetic Resonance Imaging, 2003, 21, 1213-1224.	1.8	33
138	Simultaneous Dynamic Blood Oxygen Level-Dependent Magnetic Resonance Imaging of Foot and Calf Muscles. Investigative Radiology, 2009, 44, 741-747.	6.2	33
139	Pulseseq-CEST: Towards multi-site multi-vendor compatibility and reproducibility of CEST experiments using an open-source sequence standard. Magnetic Resonance in Medicine, 2021, 86, 1845-1858.	3.0	33
140	Orbitofrontal response to drug-related stimuli after heroin administration. Addiction Biology, 2015, 20, 570-579.	2.6	32
141	Chemical exchange saturation transfer MRI contrast in the human brain at 9.4T. NeuroImage, 2018, 179, 144-155.	4.2	32
142	Adaptive denoising for chemical exchange saturation transfer MR imaging. NMR in Biomedicine, 2019, 32, e4133.	2.8	32
143	A genome-wide survey and functional brain imaging study identify CTNBL1 as a memory-related gene. Molecular Psychiatry, 2013, 18, 255-263.	7.9	31
144	31P CSI of the human brain in healthy subjects and tumor patients at 9.4T with a three-layered multi-nuclear coil: initial results. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 579-589.	2.0	31

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145	The MR tomograph as a sound generator: fMRI tool for the investigation of the auditory cortex. <i>Magnetic Resonance in Medicine</i> , 1998, 40, 934-937.	3.0	30
146	Quantitative mapping of T_2 using partial spoiling. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 410-418.	3.0	30
147	DeepCEST: 9.4 T Chemical exchange saturation transfer MRI contrast predicted from ^3AT data – a proof of concept study. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 3901-3914.	3.0	30
148	3D Organ Motion Prediction for MR-Guided High Intensity Focused Ultrasound. <i>Lecture Notes in Computer Science</i> , 2011, 14, 623-630.	1.3	30
149	High-resolution mapping of neuronal activation with balanced SSFP at 9.4 tesla. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 163-171.	3.0	29
150	SQUID-based detection of ultra-low-field multinuclear NMR of substances hyperpolarized using signal amplification by reversible exchange. <i>Scientific Reports</i> , 2017, 7, 13431.	3.3	29
151	Dependence of resting-state fMRI fluctuation amplitudes on cerebral cortical orientation relative to the direction of B_0 and anatomical axes. <i>NeuroImage</i> , 2019, 196, 337-350.	4.2	29
152	Fast chemical shift mapping with multiecho balanced SSFP. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2006, 19, 267-273.	2.0	28
153	A CMOS NMR needle for probing brain physiology with high spatial and temporal resolution. <i>Nature Methods</i> , 2020, 17, 64-67.	19.0	28
154	Effect of eye movements on the magnitude of functional magnetic resonance imaging responses in extrastriate cortex during visual motion perception. <i>Experimental Brain Research</i> , 1998, 119, 409-414.	1.5	27
155	Invasive and non-invasive evaluation of spontaneous arteriogenesis in a novel porcine model for peripheral arterial obstructive disease. <i>Atherosclerosis</i> , 2003, 167, 33-43.	0.8	27
156	Recovery of the default mode network after demanding neurofeedback training occurs in spatio-temporally segregated subnetworks. <i>NeuroImage</i> , 2012, 63, 1775-1781.	4.2	27
157	Ultrashort-TE stimulated echo acquisition mode (STEAM) improves the quantification of lipids and fatty acid chain unsaturation in the human liver at 7T. <i>NMR in Biomedicine</i> , 2015, 28, 1283-1293.	2.8	27
158	Dynamic B_0 shimming of the human brain at 9.4 T with a 16-channel multi-coil shim setup. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1714-1725.	3.0	27
159	LISA improves statistical analysis for fMRI. <i>Nature Communications</i> , 2018, 9, 4014.	12.8	27
160	Double-row 18-loop transceive – 32-loop receive tight-fit array provides for whole-brain coverage, high transmit performance, and SNR improvement near the brain center at 9.4T. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 3392-3405.	3.0	27
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