Kamil Ugurbil

List of Publications by Year in descending order

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319 papers 47,168 citations

98 h-index ²⁴⁴⁸
197
g-index

341 all docs

341 docs citations

times ranked

341

28098 citing authors

#	Article	IF	CITATIONS
1	The WU-Minn Human Connectome Project: An overview. Neurolmage, 2013, 80, 62-79.	4.2	4,282
2	A multi-modal parcellation of human cerebral cortex. Nature, 2016, 536, 171-178.	27.8	3,634
3	Resting-state fMRI in the Human Connectome Project. Neurolmage, 2013, 80, 144-168.	4.2	1,367
4	Multiband multislice GEâ€EPI at 7 tesla, with 16â€fold acceleration using partial parallel imaging with application to high spatial and temporal wholeâ€brain fMRI. Magnetic Resonance in Medicine, 2010, 63, 1144-1153.	3.0	1,329
5	Multiplexed Echo Planar Imaging for Sub-Second Whole Brain FMRI and Fast Diffusion Imaging. PLoS ONE, 2010, 5, e15710.	2.5	1,164
6	ICA-based artefact removal and accelerated fMRI acquisition for improved resting state network imaging. Neurolmage, 2014, 95, 232-247.	4.2	1,148
7	Advances in diffusion MRI acquisition and processing in the Human Connectome Project. Neurolmage, 2013, 80, 125-143.	4.2	851
8	The Human Connectome Project's neuroimaging approach. Nature Neuroscience, 2016, 19, 1175-1187.	14.8	825
9	Functional connectomics from resting-state fMRI. Trends in Cognitive Sciences, 2013, 17, 666-682.	7.8	802
10	A positive-negative mode of population covariation links brain connectivity, demographics and behavior. Nature Neuroscience, 2015, 18, 1565-1567.	14.8	782
11	Pushing spatial and temporal resolution for functional and diffusion MRI in the Human Connectome Project. Neurolmage, 2013, 80, 80-104.	4.2	769
12	Temporally-independent functional modes of spontaneous brain activity. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 3131-3136.	7.1	696
13	Sustained Negative BOLD, Blood Flow and Oxygen Consumption Response and Its Coupling to the Positive Response in the Human Brain. Neuron, 2002, 36, 1195-1210.	8.1	565
14	Magnetic field and tissue dependencies of human brain longitudinal 1H2O relaxation in vivo. Magnetic Resonance in Medicine, 2007, 57, 308-318.	3.0	546
15	Distinct basal ganglia territories are engaged in early and advanced motor sequence learning. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12566-12571.	7.1	521
16	Analysis of fMRI and finger tracking training in subjects with chronic stroke. Brain, 2002, 125, 773-788.	7.6	505
17	High-field fMRI unveils orientation columns in humans. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10607-10612.	7.1	500
18	Diffusion tensor fiber tracking shows distinct corticostriatal circuits in humans. Annals of Neurology, 2004, 55, 522-529.	5. 3	498

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19	Motor Area Activity During Mental Rotation Studied by Time-Resolved Single-Trial fMRI. Journal of Cognitive Neuroscience, 2000, 12, 310-320.	2.3	461
20	Evaluation of slice accelerations using multiband echo planar imaging at 3T. NeuroImage, 2013, 83, 991-1001.	4.2	442
21	Imaging brain function in humans at 7 Tesla. Magnetic Resonance in Medicine, 2001, 45, 588-594.	3.0	421
22	Mirror-Symmetric Tonotopic Maps in Human Primary Auditory Cortex. Neuron, 2003, 40, 859-869.	8.1	421
23	B1 destructive interferences and spatial phase patterns at 7 T with a head transceiver array coil. Magnetic Resonance in Medicine, 2005, 54, 1503-1518.	3.0	416
24	BOLD Based Functional MRI at 4 Tesla Includes a Capillary Bed Contribution: Echo-Planar Imaging Correlates with Previous Optical Imaging Using Intrinsic Signals. Magnetic Resonance in Medicine, 1995, 33, 453-459.	3.0	407
25	4 Tesla gradient recalled echo characteristics of photic stimulation-induced signal changes in the human primary visual cortex. Magnetic Resonance in Medicine, 1993, 30, 380-386.	3.0	405
26	An integrative model for neuronal activity-induced signal changes for gradient and spin echo functional imaging. NeuroImage, 2009, 48, 150-165.	4.2	381
27	Transmit and receive transmission line arrays for 7 Tesla parallel imaging. Magnetic Resonance in Medicine, 2005, 53, 434-445.	3.0	374
28	Effect of Basal Conditions on the Magnitude and Dynamics of the Blood Oxygenation Level-Dependent fMRI Response. Journal of Cerebral Blood Flow and Metabolism, 2002, 22, 1042-1053.	4.3	338
29	In vivo NAD assay reveals the intracellular NAD contents and redox state in healthy human brain and their age dependences. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2876-2881.	7.1	337
30	Microvascular BOLD contribution at 4 and 7 T in the human brain: Gradient-echo and spin-echo fMRI with suppression of blood effects. Magnetic Resonance in Medicine, 2003, 49, 1019-1027.	3.0	331
31	Reconstruction of the orientation distribution function in single―and multipleâ€shell qâ€ball imaging within constant solid angle. Magnetic Resonance in Medicine, 2010, 64, 554-566.	3.0	329
32	In vivo ¹ H NMR spectroscopy of the human brain at high magnetic fields: Metabolite quantification at 4T vs. 7T. Magnetic Resonance in Medicine, 2009, 62, 868-879.	3.0	316
33	Contextual Feedback to Superficial Layers of V1. Current Biology, 2015, 25, 2690-2695.	3.9	303
34	Extending the Human Connectome Project across ages: Imaging protocols for the Lifespan Development and Aging projects. NeuroImage, 2018, 183, 972-984.	4.2	290
35	Local <i>B</i> ₁ ⁺ shimming for prostate imaging with transceiver arrays at 7T based on subjectâ€dependent transmit phase measurements. Magnetic Resonance in Medicine, 2008, 59, 396-409.	3.0	289
36	Spin-echo fMRI in humans using high spatial resolutions and high magnetic fields. Magnetic Resonance in Medicine, 2003, 49, 655-664.	3.0	284

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37	Ocular Dominance in Human V1 Demonstrated by Functional Magnetic Resonance Imaging. Journal of Neurophysiology, 1997, 77, 2780-2787.	1.8	282
38	Diffusion-weighted spin-echo fMRI at 9.4 T: Microvascular/tissue contribution to BOLD signal changes. Magnetic Resonance in Medicine, 1999, 42, 919-928.	3.0	279
39	9.4T human MRI: Preliminary results. Magnetic Resonance in Medicine, 2006, 56, 1274-1282.	3.0	278
40	Spatio-temporal point-spread function of fMRI signal in human gray matter at 7 Tesla. NeuroImage, 2007, 35, 539-552.	4.2	266
41	T1 weighted brain images at 7ÂTesla unbiased for Proton Density, T2⎠contrast and RF coil receive B1 sensitivity with simultaneous vessel visualization. Neurolmage, 2009, 46, 432-446.	4.2	260
42	Robust detection of ocular dominance columns in humans using Hahn Spin Echo BOLD functional MRI at 7 Tesla. Neurolmage, 2007, 37, 1161-1177.	4.2	258
43	Sustained Neuronal Activation Raises Oxidative Metabolism to a New Steady-State Level: Evidence from 1H NMR Spectroscopy in the Human Visual Cortex. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 1055-1063.	4.3	253
44	Scanâ€specific robust artificialâ€neuralâ€networks for kâ€space interpolation (RAKI) reconstruction: Databaseâ€free deep learning for fast imaging. Magnetic Resonance in Medicine, 2019, 81, 439-453.	3.0	253
45	A voxel-wise encoding model for early visual areas decodes mental images of remembered scenes. Neurolmage, 2015, 105, 215-228.	4.2	252
46	Evaluation of the early response in fMRI in individual subjects using short stimulus duration. Magnetic Resonance in Medicine, 1997, 37, 877-884.	3.0	248
47	Cortical layer-dependent BOLD and CBV responses measured by spin-echo and gradient-echo fMRI: Insights into hemodynamic regulation. NeuroImage, 2006, 30, 1149-1160.	4.2	239
48	Wholeâ€body imaging at 7T: Preliminary results. Magnetic Resonance in Medicine, 2009, 61, 244-248.	3.0	237
49	The UNC/UMN Baby Connectome Project (BCP): An overview of the study design and protocol development. Neurolmage, 2019, 185, 891-905.	4.2	234
50	Limitations of temporal resolution in functional MRI. Magnetic Resonance in Medicine, 1997, 37, 631-636.	3.0	233
51	Heritability of fractional anisotropy in human white matter: A comparison of Human Connectome Project and ENIGMA-DTI data. Neurolmage, 2015, 111, 300-311.	4.2	227
52	MR Imaging Contrast Enhancement Based on Intermolecular Zero Quantum Coherences., 1998, 281, 247-251.		225
53	Analysis of wave behavior in lossy dielectric samples at high field. Magnetic Resonance in Medicine, 2002, 47, 982-989.	3.0	225
54	Respiration-inducedB0 fluctuations and their spatial distribution in the human brain at 7 Tesla. Magnetic Resonance in Medicine, 2002, 47, 888-895.	3.0	225

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55	Potential pitfalls of functional MRI using conventional gradient-recalled echo techniques. NMR in Biomedicine, 1994, 7, 69-74.	2.8	218
56	Ultrahigh field magnetic resonance imaging and spectroscopy. Magnetic Resonance Imaging, 2003, 21, 1263-1281.	1.8	218
57	Steadyâ€State Cerebral Glucose Concentrations and Transport in the Human Brain. Journal of Neurochemistry, 1998, 70, 397-408.	3.9	215
58	Quantitative imaging of energy expenditure in human brain. NeuroImage, 2012, 60, 2107-2117.	4.2	206
59	Spatially constrained hierarchical parcellation of the brain with resting-state fMRI. NeuroImage, 2013, 76, 313-324.	4.2	203
60	An Assessment of Current Brain Targets for Deep Brain Stimulation Surgery With Susceptibility-Weighted Imaging at 7 Tesla. Neurosurgery, 2010, 67, 1745-1756.	1.1	202
61	Monitoring disease progression in transgenic mouse models of Alzheimer's disease with proton magnetic resonance spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11906-11910.	7.1	193
62	Time-resolved fMRI of mental rotation. NeuroReport, 1997, 8, 3697-3702.	1.2	189
63	Localized in vivo ¹³ C-NMR of Glutamate Metabolism in the Human Brain: Initial Results at 4 Tesla. Developmental Neuroscience, 1998, 20, 380-388.	2.0	188
64	Encoding of Natural Sounds at Multiple Spectral and Temporal Resolutions in the Human Auditory Cortex. PLoS Computational Biology, 2014, 10, e1003412.	3.2	187
65	The Lifespan Human Connectome Project in Aging: An overview. Neurolmage, 2019, 185, 335-348.	4.2	186
66	Human primary visual cortex and lateral geniculate nucleus activation during visual imagery. NeuroReport, 1998, 9, 3669-3674.	1,2	185
67	Signal and noise characteristics of Hahn SE and GE BOLD fMRI at 7 T in humans. Neurolmage, 2005, 24, 738-750.	4.2	182
68	Parallel imaging performance as a function of field strength? An experimental investigation using electrodynamic scaling. Magnetic Resonance in Medicine, 2004, 52, 953-964.	3.0	179
69	The BRAIN Initiative: developing technology to catalyse neuroscience discovery. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140164.	4.0	179
70	How accurate is magnetic resonance imaging of brain function?. Trends in Neurosciences, 2003, 26, 108-114.	8.6	173
71	Tightly coupled brain activity and cerebral ATP metabolic rate. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6409-6414.	7.1	173
72	The nature of spatiotemporal changes in cerebral hemodynamics as manifested in functional magnetic resonance imaging. Magnetic Resonance in Medicine, 1997, 37, 511-518.	3.0	172

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73	Layer-Specific fMRI Reflects Different Neuronal Computations at Different Depths in Human V1. PLoS ONE, 2012, 7, e32536.	2.5	172
74	Combined imaging–histological study of cortical laminar specificity of fMRI signals. NeuroImage, 2006, 29, 879-887.	4.2	163
75	Mapping the Organization of Axis of Motion Selective Features in Human Area MT Using High-Field fMRI. PLoS ONE, 2011, 6, e28716.	2.5	163
76	A functional magnetic resonance imaging study of the role of left posterior superior temporal gyrus in speech production: implications for the explanation of conduction aphasia. Neuroscience Letters, 2000, 287, 156-160.	2.1	153
77	Frequency preference and attention effects across cortical depths in the human primary auditory cortex. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 16036-16041.	7.1	153
78	Cortical Depth Dependent Functional Responses in Humans at 7T: Improved Specificity with 3D GRASE. PLoS ONE, 2013, 8, e60514.	2.5	151
79	Metabolic and Hemodynamic Events after Changes in Neuronal Activity: Current Hypotheses, Theoretical Predictions and <i>in vivo </i> NMR Experimental Findings. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 441-463.	4.3	143
80	The Human Connectome Project 7 Tesla retinotopy dataset: Description and population receptive field analysis. Journal of Vision, 2018, 18, 23.	0.3	139
81	A 16â€channel combined loopâ€dipole transceiver array for 7 <scp>T</scp> esla body <scp>MRI</scp> . Magnetic Resonance in Medicine, 2017, 77, 884-894.	3.0	138
82	Zoomed Functional Imaging in the Human Brain at 7 Tesla with Simultaneous High Spatial and High Temporal Resolution. NeuroImage, 2002, 17, 272-286.	4.2	134
83	Selfâ€supervised learning of physicsâ€guided reconstruction neural networks without fully sampled reference data. Magnetic Resonance in Medicine, 2020, 84, 3172-3191.	3.0	133
84	Development of 170 NMR approach for fast imaging of cerebral metabolic rate of oxygen in rat brain at high field. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 13194-13199.	7.1	131
85	Regional myocardial blood volume and flow: First-pass MR imaging with polylysine-Gd-DTPA. Journal of Magnetic Resonance Imaging, 1995, 5, 227-237.	3.4	130
86	Mental Rotation Studied by Functional Magnetic Resonance Imaging at High Field (4 Tesla): Performance and Cortical Activation. Journal of Cognitive Neuroscience, 1997, 9, 419-432.	2.3	126
87	Multiband accelerated spinâ€echo echo planar imaging with reduced peak RF power using timeâ€shifted RF pulses. Magnetic Resonance in Medicine, 2013, 69, 1261-1267.	3.0	126
88	Functional magnetic resonance imaging of cerebellar activation during the learning of a visuomotor dissociation task. Human Brain Mapping, 1996, 4, 210-226.	3.6	123
89	Magnetic Resonance Imaging at Ultrahigh Fields. IEEE Transactions on Biomedical Engineering, 2014, 61, 1364-1379.	4.2	118
90	Dynamics of motor-related functional integration during motor sequence learning. Neurolmage, 2010, 49, 759-766.	4.2	117

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91	Tradeoffs in pushing the spatial resolution of fMRI for the 7T Human Connectome Project. Neurolmage, 2017, 154, 23-32.	4.2	117
92	Sensitivity of single-voxel 1H-MRS in investigating the metabolism of the activated human visual cortex at 7 T. Magnetic Resonance Imaging, 2006, 24, 343-348.	1.8	115
93	The Human Connectome Project: A retrospective. Neurolmage, 2021, 244, 118543.	4.2	114
94	Potential and feasibility of parallel MRI at high field. NMR in Biomedicine, 2006, 19, 368-378.	2.8	113
95	Functional and Bioenergetic Consequences of Postinfarction Left Ventricular Remodeling in a New Porcine Model. Circulation, 1996, 94, 1089-1100.	1.6	113
96	Functional magnetic resonance imaging of mental rotation and memory scanning: a multidimensional scaling analysis of brain activation patterns1Published on the World Wide Web on 24 February 1998.1. Brain Research Reviews, 1998, 26, 106-112.	9.0	112
97	Study of tricarboxylic acid cycle flux changes in human visual cortex during hemifield visual stimulation using 1H-{13C} MRS and fMRI. Magnetic Resonance in Medicine, 2001, 45, 349-355.	3.0	112
98	Determination of blood longitudinal relaxation time (T1) at high magnetic field strengths. Magnetic Resonance Imaging, 2007, 25, 733-735.	1.8	111
99	Functional magnetic resonance imaging of the human brain. Journal of Neuroscience Methods, 1997, 74, 229-243.	2.5	110
100	Functional Magnetic Resonance Imaging as a Management Tool for Cerebral Arteriovenous Malformations. Neurosurgery, 1995, 37, 619-626.	1,1	108
101	Investigation of the initial dip in fMRI at 7 Tesla. NMR in Biomedicine, 2001, 14, 408-412.	2.8	108
102	Spatial relationship between neuronal activity and BOLD functional MRI. NeuroImage, 2004, 21, 876-885.	4.2	108
103	Mechanisms underlying decoding at 7\^AT : Ocular dominance columns, broad structures, and macroscopic blood vessels in V1 convey information on the stimulated eye. Neurolmage, 2010, 49, 1957-1964.	4.2	105
104	Hippocampal Sclerosis in Temporal Lobe Epilepsy: Findings at 7 T. Radiology, 2011, 261, 199-209.	7.3	104
105	Regional neurochemical profiles in the human brain measured by ⟨sup⟩1⟨ sup⟩H MRS at 7 T using local ⟨i⟩B⟨ i⟩⟨sub⟩1⟨ sub⟩ shimming. NMR in Biomedicine, 2012, 25, 152-160.	2.8	104
106	Measurement of unidirectional Pi to ATP flux in human visual cortex at 7 T by using in vivo 31P magnetic resonance spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14409-14414.	7.1	98
107	In vivo 13C NMR spectroscopy and metabolic modeling in the brain: a practical perspective. Magnetic Resonance Imaging, 2006, 24, 527-539.	1.8	98
108	Imaging at ultrahigh magnetic fields: History, challenges, and solutions. NeuroImage, 2018, 168, 7-32.	4.2	98

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109	Functional imaging of brain activity in conscious monkeys responding to sexually arousing cues. NeuroReport, 2001, 12, 2231-2236.	1.2	96
110	The Spatial Dependence of the Poststimulus Undershoot as Revealed by High-Resolution BOLD- and CBV-Weighted fMRI. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 634-644.	4.3	93
111	The impact of ultra-high field MRI on cognitive and computational neuroimaging. NeuroImage, 2018, 168, 366-382.	4.2	93
112	Noninvasive Measurements of [1-13C] Glycogen Concentrations and Metabolism in Rat Brain In Vivo. Journal of Neurochemistry, 2001, 73, 1300-1308.	3.9	92
113	Validation of glutathione quantitation from STEAM spectra against edited 1H NMR spectroscopy at 4T: application to schizophrenia. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2005, 18, 276-282.	2.0	92
114	High resolution proton NMR studies of perfused rat hearts. FEBS Letters, 1984, 167, 73-78.	2.8	91
115	The Effect of Stimulus–Response Compatibility on Cortical Motor Activation. NeuroImage, 2001, 13, 1-14.	4.2	91
116	Hypercapnic normalization of BOLD fMRI: comparison across field strengths and pulse sequences. NeuroImage, 2004, 23, 613-624.	4.2	91
117	Fusion in diffusion MRI for improved fibre orientation estimation: An application to the 3T and 7T data of the Human Connectome Project. Neurolmage, 2016, 134, 396-409.	4.2	91
118	High-Resolution Mapping of Myeloarchitecture In Vivo: Localization of Auditory Areas in the Human Brain. Cerebral Cortex, 2015, 25, 3394-3405.	2.9	90
119	Spatial organization of frequency preference and selectivity in the human inferior colliculus. Nature Communications, 2013, 4, 1386.	12.8	89
120	Reconstructing the spectrotemporal modulations of real-life sounds from fMRI response patterns. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4799-4804.	7.1	88
121	Observation of resolved glucose signals in 1H NMR spectra of the human brain at 4 Tesla. Magnetic Resonance in Medicine, 1996, 36, 1-6.	3.0	87
122	An Inverted-Microstrip Resonator for Human Head Proton MR Imaging at 7 Tesla. IEEE Transactions on Biomedical Engineering, 2005, 52, 495-504.	4.2	87
123	A critical assessment of data quality and venous effects in sub-millimeter fMRI. NeuroImage, 2019, 189, 847-869.	4.2	87
124	Fast interleaved echo-planar imaging with navigator: High resolution anatomic and functional images at 4 tesla. Magnetic Resonance in Medicine, 1996, 35, 895-902.	3.0	84
125	Magnetic Resonance Studies of Brain Function and Neurochemistry. Annual Review of Biomedical Engineering, 2000, 2, 633-660.	12.3	84
126	Increase of creatine kinase activity in the visual cortex of human brain during visual stimulation: A31p NMR magnetization transfer study. Magnetic Resonance in Medicine, 1997, 38, 551-557.	3.0	81

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127	A 32â€channel lattice transmission line array for parallel transmit and receive MRI at 7 tesla. Magnetic Resonance in Medicine, 2010, 63, 1478-1485.	3.0	80
128	ConnectomeDBâ€"Sharing human brain connectivity data. NeuroImage, 2016, 124, 1102-1107.	4.2	80
129	Toward imaging the body at 10.5 tesla. Magnetic Resonance in Medicine, 2017, 77, 434-443.	3.0	79
130	BOLD fMRI and psychophysical measurements of contrast response to broadband images. Vision Research, 2004, 44, 669-683.	1.4	76
131	Functional magnetic resonance imaging with intermolecular multiple-quantum coherences. Magnetic Resonance Imaging, 2000, 18, 489-494.	1.8	75
132	Spatial dependence of the nonlinear BOLD response at short stimulus duration. NeuroImage, 2003, 18, 990-1000.	4.2	73
133	Processing of Natural Sounds: Characterization of Multipeak Spectral Tuning in Human Auditory Cortex. Journal of Neuroscience, 2013, 33, 11888-11898.	3.6	73
134	Comparison of pulsed arterial spin labeling encoding schemes and absolute perfusion quantification. Magnetic Resonance Imaging, 2009, 27, 1039-1045.	1.8	72
135	Effects of movement predictability on cortical motor activation. Neuroscience Research, 1998, 32, 65-74.	1.9	71
136	Myocardial Oxygenation During High Work States in Hearts With Postinfarction Remodeling. Circulation, 1999, 99, 942-948.	1.6	70
137	A New Class of Gd-Based DO3A-Ethylamine-Derived Targeted Contrast Agents for MR and Optical Imaging. Bioconjugate Chemistry, 2006, 17, 773-780.	3.6	69
138	Whole brain high-resolution functional imaging at ultra high magnetic fields: An application to the analysis of resting state networks. NeuroImage, 2011, 57, 1031-1044.	4.2	68
139	Lowering the thermal noise barrier in functional brain mapping with magnetic resonance imaging. Nature Communications, 2021, 12, 5181.	12.8	68
140	Neural correlates of visual form and visual spatial processing. Human Brain Mapping, 1999, 8, 60-71.	3.6	67
141	Anatomical correlates of the functional organization in the human occipitotemporal cortex. Magnetic Resonance Imaging, 2006, 24, 583-590.	1.8	67
142	Toward 20ÂT magnetic resonance for human brain studies: opportunities for discovery and neuroscience rationale. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 617-639.	2.0	66
143	AccurateT1 determination from inversion recovery images: Application to human brain at 4 Tesla. Magnetic Resonance in Medicine, 1994, 31, 445-449.	3.0	65
144	Subchronic In Vivo Effects of a High Static Magnetic Field (9.4 T) in Rats. Journal of Magnetic Resonance Imaging, 2000, 12, 122-139.	3.4	65

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145	CyLoP-1: A Novel Cysteine-Rich Cell-Penetrating Peptide for Cytosolic Delivery of Cargoes. Bioconjugate Chemistry, 2011, 22, 319-328.	3.6	65
146	Further evaluation of the initial negative response in functional magnetic resonance imaging. Magnetic Resonance in Medicine, 1999, 41, 436-441.	3.0	64
147	Performance of external and internal coil configurations for prostate investigations at 7 T. Magnetic Resonance in Medicine, 2010, 64, 1625-1639.	3.0	63
148	Simultaneous multislice multiband parallel radiofrequency excitation with independent slice-specific transmit B1 homogenization. Magnetic Resonance in Medicine, 2013, 70, 630-638.	3.0	63
149	The road to functional imaging and ultrahigh fields. NeuroImage, 2012, 62, 726-735.	4.2	62
150	31P NMR spectroscopy of the human heart at 4 T: Detection of substantially uncontaminated cardiac spectra and differentiation of subepicardium and subendocardium. Magnetic Resonance in Medicine, 1992, 26, 368-376.	3.0	61
151	Fast anatomical imaging of the heart and assessment of myocardial perfusion with arrhythmia insensitive magnetization preparation. Magnetic Resonance in Medicine, 1995, 34, 530-536.	3.0	59
152	fMRI analysis of ankle movement tracking training in subject with stroke. Experimental Brain Research, 2004, 154, 281-290.	1.5	59
153	In vivo human head MRI at 10.5T: A radiofrequency safety study and preliminary imaging results. Magnetic Resonance in Medicine, 2020, 84, 484-496.	3.0	59
154	Simplified Methods for Calculating Cerebral Metabolic Rate of Oxygen Based on 170 Magnetic Resonance Spectroscopic Imaging Measurement during a Short 1702 Inhalation. Journal of Cerebral Blood Flow and Metabolism, 2004, 24, 840-848.	4.3	58
155	Frontiers of brain mapping using MRI. Journal of Magnetic Resonance Imaging, 2006, 23, 945-957.	3.4	58
156	Dynamics of lactate concentration and blood oxygen level-dependent effect in the human visual cortex during repeated identical stimuli. Journal of Neuroscience Research, 2007, 85, 3340-6.	2.9	58
157	Cardiac imaging at 7 tesla: Single―and twoâ€spoke radiofrequency pulse design with 16â€channel parallel excitation. Magnetic Resonance in Medicine, 2013, 70, 1210-1219.	3.0	58
158	Functional magnetic resonance imaging of the retina. Investigative Ophthalmology and Visual Science, 2002, 43, 1176-81.	3.3	58
159	Dynamically applied <i>B</i> ₁ ⁺ shimming solutions for nonâ€contrast enhanced renal angiography at 7.0 tesla. Magnetic Resonance in Medicine, 2013, 69, 114-126.	3.0	57
160	Simultaneous multi-slice Turbo-FLASH imaging with CAIPIRINHA for whole brain distortion-free pseudo-continuous arterial spin labeling at 3 and 7 T. Neurolmage, 2015, 113, 279-288.	4.2	57
161	NOise reduction with Distribution Corrected (NORDIC) PCA in dMRI with complex-valued parameter-free locally low-rank processing. NeuroImage, 2021, 226, 117539.	4.2	57
162	Modeling and analysis of mechanisms underlying fMRI-based decoding of information conveyed in cortical columns. NeuroImage, 2011, 56, 627-642.	4.2	56

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163	What is feasible with imaging human brain function and connectivity using functional magnetic resonance imaging. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150361.	4.0	56
164	Noninvasive and Three-Dimensional Imaging of CMRO2 in Rats at 9.4 T: Reproducibility Test and Normothermia/Hypothermia Comparison Study. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 1225-1234.	4.3	54
165	Dynamics and nonlinearities of the BOLD response at very short stimulus durations. Magnetic Resonance Imaging, 2008, 26, 853-862.	1.8	54
166	Cell-Penetrating Peptides and Peptide Nucleic Acid-Coupled MRI Contrast Agents: Evaluation of Cellular Delivery and Target Binding. Bioconjugate Chemistry, 2009, 20, 1860-1868.	3.6	54
167	Processing of frequency and location in human subcortical auditory structures. Scientific Reports, 2015, 5, 17048.	3.3	54
168	Brain imaging with improved acceleration and SNR at 7 Tesla obtained with 64â€channel receive array. Magnetic Resonance in Medicine, 2019, 82, 495-509.	3.0	53
169	First inâ€vivo human imaging at 10.5T: Imaging the body at 447 MHz. Magnetic Resonance in Medicine, 2020, 84, 289-303.	3.0	53
170	Sensitivity and specificity considerations for fMRI encoding, decoding, and mapping of auditory cortex at ultra-high field. NeuroImage, 2018, 164, 18-31.	4.2	52
171	New Insights into Central Roles of Cerebral Oxygen Metabolism in the Resting and Stimulus-Evoked Brain. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 10-18.	4.3	51
172	Functional activation using apparent diffusion coefficient-dependent contrast allows better spatial localization to the neuronal activity: evidence using diffusion tensor imaging and fiber tracking. NeuroImage, 2003, 20, 955-961.	4.2	49
173	In vivo micro-MRI of intracortical neurovasculature. NeuroImage, 2006, 32, 62-69.	4.2	48
174	Spatial resolution dependence of DTI tractography in human occipito-callosal region. NeuroImage, 2006, 32, 1243-1249.	4.2	48
175	Relationships Between Myocardial Bioenergetic and Left Ventricular Function in Hearts With Volume-Overload Hypertrophy. Circulation, 1997, 96, 334-343.	1.6	48
176	High Spatial Resolution Functional Magnetic Resonance Imaging at Very-High-Magnetic Field. Topics in Magnetic Resonance Imaging, 1999, 10, 63-78.	1.2	47
177	Human imaging at 9.4 T using <i>T</i> ₂ *â€, phaseâ€, and susceptibilityâ€weighted contrast. Magnetic Resonance in Medicine, 2011, 65, 544-550.	3.0	47
178	On the reliability of 13C metabolic modeling with two-compartment neuronal-glial models. Journal of Neuroscience Research, 2007, 85, 3294-3303.	2.9	46
179	Retinotopic mapping with spin echo BOLD at 7T. Magnetic Resonance Imaging, 2010, 28, 1258-1269.	1.8	45
180	Functional magnetic resonance imaging using RASER. NeuroImage, 2011, 54, 350-360.	4.2	45

#	Article	IF	Citations
181	Noninvasive quantification of human brain ascorbate concentration using ¹ H NMR spectroscopy at 7 T. NMR in Biomedicine, 2010, 23, 227-232.	2.8	43
182	Parallel excitation in the human brain at 9.4 T counteracting ⟨i⟩k⟨/i⟩â€space errors with RF pulse design. Magnetic Resonance in Medicine, 2010, 63, 524-529.	3.0	43
183	Synthesis and characterization of a cell-permeable bimodal contrast agent targeting \hat{l}^2 -galactosidase. Bioorganic and Medicinal Chemistry, 2011, 19, 2529-2540.	3.0	43
184	Magnetic Resonance Field Strength Effects on Diffusion Measures and Brain Connectivity Networks. Brain Connectivity, 2013, 3, 72-86.	1.7	42
185	In Vivo Noninvasive Detection of Brown Adipose Tissue through Intermolecular Zero-Quantum MRI. PLoS ONE, 2013, 8, e74206.	2.5	42
186	Neurochemical changes in the developing rat hippocampus during prolonged hypoglycemia. Journal of Neurochemistry, 2010, 114, 728-738.	3.9	40
187	Spatial specificity of the functional MRI blood oxygenation response relative to neuronal activity. NeuroImage, 2018, 164, 32-47.	4.2	39
188	Linearity of blood-oxygenation-level dependent signal at microvasculature. NeuroImage, 2009, 48, 313-318.	4.2	38
189	Mitigating transmit B 1 inhomogeneity in the liver at 7T using multi-spoke parallel transmit RF pulse design. Quantitative Imaging in Medicine and Surgery, 2014, 4, 4-10.	2.0	38
190	Analysis of the distribution of diffusion coefficients in cat brain at 9.4 T using the inverse Laplace transformation. Magnetic Resonance Imaging, 2006, 24, 61-68.	1.8	37
191	Neural activity-induced modulation of BOLD poststimulus undershoot independent of the positive signal. Magnetic Resonance Imaging, 2009, 27, 1030-1038.	1.8	37
192	Simultaneous multislice imaging in dynamic cardiac MRI at 7T using parallel transmission. Magnetic Resonance in Medicine, 2017, 77, 1010-1020.	3.0	37
193	Detecting natural abundance carbon signal of NAA metabolite within 12-cm3 localized volume of human brain using1H-{13C} NMR spectroscopy. Magnetic Resonance in Medicine, 1998, 40, 180-184.	3.0	36
194	Theoretical and experimental evaluation of multi-band EPI for high-resolution whole brain pCASL Imaging. NeuroImage, 2015, 106, 170-181.	4.2	36
195	Contrast enhancement in TOF cerebral angiography at 7 T using saturation and MT pulses under SAR constraints: Impact of VERSE and sparse pulses. Magnetic Resonance in Medicine, 2012, 68, 188-197.	3.0	35
196	Myocardial bioenergetic abnormalities in a canine model of left ventricular dysfunction. Journal of the American College of Cardiology, 1994, 23, 786-793.	2.8	34
197	A voxel-by-voxel parametric fMRI study of motor mental rotation: hemispheric specialization and gender differences in neural processing efficiency. Experimental Brain Research, 2008, 189, 79-90.	1.5	34
198	Design of parallel transmission radiofrequency pulses robust against respiration in cardiac MRI at 7 Tesla. Magnetic Resonance in Medicine, 2015, 74, 1291-1305.	3.0	34

#	Article	IF	CITATIONS
199	A temporal decomposition method for identifying venous effects in task-based fMRI. Nature Methods, 2020, 17, 1033-1039.	19.0	33
200	Cerebral cortical mechanisms of copying geometrical shapes: a multidimensional scaling analysis of fMRI patterns of activation. Experimental Brain Research, 2009, 194, 369-380.	1.5	32
201	RubiX: Combining Spatial Resolutions for Bayesian Inference of Crossing Fibers in Diffusion MRI. IEEE Transactions on Medical Imaging, 2013, 32, 969-982.	8.9	32
202	Cerebral TOF angiography at 7T: Impact of <i>B</i> ₁ ⁺ shimming with a 16â€channel transceiver array. Magnetic Resonance in Medicine, 2014, 71, 966-977.	3.0	32
203	Processing complexity increases in superficial layers of human primary auditory cortex. Scientific Reports, 2019, 9, 5502.	3.3	32
204	Highâ€resolution wholeâ€brain diffusion MRI at 7T using radiofrequency parallel transmission. Magnetic Resonance in Medicine, 2018, 80, 1857-1870.	3.0	31
205	Measurement of ATP synthesis rates by 31P-NMR spectroscopy in the intact myocardiumin vivo. Magnetic Resonance in Medicine, 1990, 15, 8-24.	3.0	30
206	Contrast agents for cerebral perfusion MR imaging. Journal of Magnetic Resonance Imaging, 1994, 4, 235-242.	3.4	30
207	Mental maze solving: directional fMRI tuning and population coding in the superior parietal lobule. Experimental Brain Research, 2005, 165, 273-282.	1.5	30
208	Ultra-high field (10.5 T) resting state fMRI in the macaque. NeuroImage, 2020, 223, 117349.	4.2	30
209	Decreases in ADC observed in tissue areas during activation in the cat visual cortex at 9.4 T using high diffusion sensitization. Magnetic Resonance Imaging, 2008, 26, 889-896.	1.8	29
210	Seven-Tesla Time-of-Flight Angiography Using a 16-Channel Parallel Transmit System With Power-Constrained 3-dimensional Spoke Radiofrequency Pulse Design. Investigative Radiology, 2014, 49, 314-325.	6.2	29
211	Cortical fibers orientation mapping using in-vivo whole brain 7â€T diffusion MRI. NeuroImage, 2018, 178, 104-118.	4.2	29
212	Evolution of UHF Body Imaging in the Human Torso at 7T. Topics in Magnetic Resonance Imaging, 2019, 28, 101-124.	1.2	29
213	In vivo mapping of functional domains and axonal connectivity in cat visual cortex using magnetic resonance imaging. Magnetic Resonance Imaging, 2003, 21, 1131-1140.	1.8	28
214	Comparison of RF body coils for MRI at 3  T: a simulation study using parallel transmission on various anatomical targets. NMR in Biomedicine, 2015, 28, 1332-1344.	2.8	28
215	Denoise magnitude diffusion magnetic resonance images via variance-stabilizing transformation and optimal singular-value manipulation. Neurolmage, 2020, 215, 116852.	4.2	28
216	Histamine uptake in pig platelets and isolated dense granules. Biochemical Pharmacology, 1984, 33, 3869-3874.	4.4	27

#	Article	IF	Citations
217	Cerebellar Activation During Copying Geometrical Shapes. Journal of Neurophysiology, 2003, 90, 3874-3887.	1.8	26
218	In vitro and in vivo studies of ¹⁷ O NMR sensitivity at 9.4 and 16.4 T. Magnetic Resonance in Medicine, 2013, 69, 1523-1527.	3.0	26
219	Direct control of the temperature rise in parallel transmission by means of temperature virtual observation points: Simulations at 10.5 tesla. Magnetic Resonance in Medicine, 2016, 75, 249-256.	3.0	26
220	Human hippocampal long-term sustained response during word memory processing. NeuroReport, 1998, 9, 1041-1047.	1.2	25
221	Towards highâ€resolution 4D flow MRI in the human aorta using ktâ€GRAPPA and B1+ shimming at 7T. Journal of Magnetic Resonance Imaging, 2016, 44, 486-499.	3.4	25
222	A simple geometric analysis method for measuring and mitigating RF induced currents on Deep Brain Stimulation leads by multichannel transmission/reception. NeuroImage, 2019, 184, 658-668.	4.2	25
223	Accelerated coronary MRI with sRAKI: A database-free self-consistent neural network k-space reconstruction for arbitrary undersampling. PLoS ONE, 2020, 15, e0229418.	2.5	25
224	Functional imaging of the motor system. Current Opinion in Neurobiology, 1994, 4, 832-839.	4.2	24
225	Insulin Reduces the BOLD Response but is without Effect on the VEP during Presentation of a Visual Task in Humans. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 154-160.	4.3	24
226	Theoretical and experimental evaluation of continuous arterial spin labeling techniques. Magnetic Resonance in Medicine, 2010, 63, 438-446.	3.0	24
227	Functional MRI using super-resolved spatiotemporal encoding. Magnetic Resonance Imaging, 2012, 30, 1401-1408.	1.8	24
228	Functional MRI of human motor cortices during overt and imagined finger movements. International Journal of Imaging Systems and Technology, 1995, 6, 271-279.	4.1	23
229	Effects of dobutamine on myocardial blood flow, contractile function, and bioenergetic responses distal to coronary stenosis: Implications with regard to dobutamine stress testing. American Heart Journal, 1995, 129, 330-342.	2.7	23
230	Relationship of the BOLD Signal with VEP for Ultrashort Duration Visual Stimuli (0.1 to 5 ms) in Humans. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 449-458.	4.3	23
231	Recent Advances in High-Resolution MR Application and Its Implications for Neurovascular Coupling Research. Frontiers in Neuroenergetics, 2010, 2, 130.	5.3	23
232	Development of functional imaging in the human brain (fMRI); the University of Minnesota experience. NeuroImage, 2012, 62, 613-619.	4.2	23
233	Less noise, more activation: Multiband acquisition schemes for auditory functional MRI. Magnetic Resonance in Medicine, 2015, 74, 462-467.	3.0	23
234	10.5ÂT MRI static field effects on human cognitive, vestibular, and physiological function. Magnetic Resonance Imaging, 2020, 73, 163-176.	1.8	23

#	Article	IF	CITATIONS
235	Longâ€term behavioral effects observed in mice chronically exposed to static ultraâ€high magnetic fields. Magnetic Resonance in Medicine, 2021, 86, 1544-1559.	3.0	23
236	Enhanced neurochemical profile of the rat brain using in vivo ¹ H NMR spectroscopy at 16.4 T. Magnetic Resonance in Medicine, 2011, 65, 28-34.	3.0	22
237	Spin echo functional MRI in bilateral auditory cortices at 7T: An application of B1 shimming. NeuroImage, 2012, 63, 1313-1320.	4.2	22
238	A generalized slabâ€wise framework for parallel transmit multiband RF pulse design. Magnetic Resonance in Medicine, 2016, 75, 1444-1456.	3.0	22
239	Evaluating the Columnar Stability of Acoustic Processing in the Human Auditory Cortex. Journal of Neuroscience, 2018, 38, 7822-7832.	3.6	22
240	Human Connectome Project-style resting-state functional MRI at 7 Tesla using radiofrequency parallel transmission. Neurolmage, 2019, 184, 396-408.	4.2	22
241	Diffusion Imaging in the Post HCP Era. Journal of Magnetic Resonance Imaging, 2021, 54, 36-57.	3.4	22
242	In vitro and in vivo studies of 1H NMR visibility to detect deoxyhemoglobin and deoxymyoglobin signals in myocardium. Magnetic Resonance in Medicine, 1999, 42, 1-5.	3.0	21
243	Retinotopic mapping in cat visual cortex using high-field functional magnetic resonance imaging. Journal of Neuroscience Methods, 2003, 131, 161-170.	2.5	21
244	Metabolic Modeling of Dynamic Brain 13C NMR Multiplet Data: Concepts and Simulations with a Two-Compartment Neuronal-Glial Model. Neurochemical Research, 2012, 37, 2388-2401.	3.3	21
245	Distributing coil elements in three dimensions enhances parallel transmission multiband <scp>RF</scp> performance: A simulation study in the human brain at 7 Tesla. Magnetic Resonance in Medicine, 2016, 75, 2464-2472.	3.0	21
246	Magnetic field strength dependent SNR gain at the center of a spherical phantom and up to 11. <scp>7T</scp> . Magnetic Resonance in Medicine, 2022, 88, 2131-2138.	3.0	21
247	Effect of acute hyperglycemia on visual cortical activation as measured by functional MRI. Journal of Neuroscience Research, 2000, 62, 279-285.	2.9	19
248	Ultra-high field parallel imaging of the superior parietal lobule during mental maze solving. Experimental Brain Research, 2008, 187, 551-561.	1.5	19
249	Improving radiofrequency power and specific absorption rate management with bumped transmit elements in ultraâ€high field MRI. Magnetic Resonance in Medicine, 2020, 84, 3485-3493.	3.0	19
250	Intrinsic timescales as an organizational principle of neural processing across the whole rhesus macaque brain. ELife, $2022,11,\ldots$	6.0	19
251	A proof-of-concept study for developing integrated two-photon microscopic and magnetic resonance imaging modality at ultrahigh field of 16.4 tesla. Scientific Reports, 2017, 7, 2733.	3.3	18
252	Myocardial tagging with B1 insensitive adiabatic DANTE inversion sequences. Magnetic Resonance in Medicine, 1995, 34, 395-401.	3.0	17

#	Article	IF	CITATIONS
253	Correcting for Strong Eddy Current Induced B0 Modulation Enables Two-Spoke RF Pulse Design with Parallel Transmission: Demonstration at 9.4T in the Human Brain. PLoS ONE, 2013, 8, e78078.	2.5	17
254	Optimization of functional MRI for detection, decoding and high-resolution imaging of the response patterns of cortical columns. Neurolmage, 2018, 164, 67-99.	4.2	17
255	In vivo measurement of CBF using ¹⁷ 0 NMR signal of metabolically produced H ₂ ¹⁷ 0 as a perfusion tracer. Magnetic Resonance in Medicine, 2013, 70, 309-314.	3.0	16
256	Selfâ€navigation for 3D multishot EPI with dataâ€reference. Magnetic Resonance in Medicine, 2020, 84, 1747-1762.	3.0	16
257	An 8â€dipole transceive and 24â€loop receive array for nonâ€human primate head imaging at 10.5 T. NMR in Biomedicine, 2021, 34, e4472.	2.8	16
258	Estimation of the CSAâ€ODF using Bayesian compressed sensing of multiâ€shell HARDI. Magnetic Resonance in Medicine, 2014, 72, 1471-1485.	3.0	15
259	High-temporal-resolution studies of the human primary visual cortex at 4 T: Teasing out the oxygenation contribution in FMRI. International Journal of Imaging Systems and Technology, 1995, 6, 209-215.	4.1	14
260	Functional MRI mapping neuronal inhibition and excitation at columnar level in human visual cortex. Experimental Brain Research, 2010, 204, 515-524.	1.5	14
261	Measuring renal tissue relaxation times at 7 T. NMR in Biomedicine, 2015, 28, 63-69.	2.8	14
262	Surface coil cardiac tagging and 31P spectroscopic localization with B1-insensitive adiabatic pulses. Magnetic Resonance in Medicine, 1994, 31, 541-545.	3.0	13
263	Use of Magnetic Resonance Spectroscopy for In Vivo Evaluation of High-Energy Phosphate Metabolism in Normal and Abnormal Myocardium. Journal of Cardiovascular Magnetic Resonance, 2000, 2, 23-32.	3.3	13
264	Evaluation of a 16-Channel Transceiver Loop + Dipole Antenna Array for Human Head Imaging at 10.5 Tesla. IEEE Access, 2020, 8, 203555-203563.	4.2	13
265	A field-monitoring-based approach for correcting eddy-current-induced artifacts of up to the 2nd spatial order in human-connectome-project-style multiband diffusion MRI experiment at 7T: A pilot study. Neurolmage, 2020, 216, 116861.	4.2	13
266	Ultrahigh field and ultrahigh resolution fMRI. Current Opinion in Biomedical Engineering, 2021, 18, 100288.	3.4	13
267	Substrate effects in the post-ischemic myocardium. Journal of Surgical Research, 1988, 44, 430-435.	1.6	12
268	Investigation of multicomponent diffusion in cat brain using a combined MTC–DWI approach. Magnetic Resonance Imaging, 2006, 24, 425-431.	1.8	12
269	Quantitative single breathâ€hold renal arterial spin labeling imaging at 7T. Magnetic Resonance in Medicine, 2018, 79, 815-825.	3.0	12
270	Transmural distribution of 2-deoxyglucose uptake in normal and post-ischemic canine myocardium. NMR in Biomedicine, 1995, 8, 9-18.	2.8	11

#	Article	IF	CITATIONS
271	Motion-robust cardiac B1+ mapping at 3T using interleaved bloch-siegert shifts. Magnetic Resonance in Medicine, 2017, 78, 670-677.	3.0	11
272	A selfâ€decoupled 32â€channel receive array for humanâ€brain MRI at 10.5 T. Magnetic Resonance in Medicine, 2021, 86, 1759-1772.	3.0	11
273	Effect of radiofrequency shield diameter on signalâ€toâ€noise ratio at ultraâ€high field MRI. Magnetic Resonance in Medicine, 2021, 85, 3522-3530.	3.0	11
274	Logarithmic transformation for high-field BOLD fMRI data. Experimental Brain Research, 2005, 165, 447-453.	1.5	10
275	Investigating the physiological effects of 10.5 Tesla static field exposure on anesthetized swine. Magnetic Resonance in Medicine, 2018, 79, 511-514.	3.0	10
276	Temporal multivariate pattern analysis (tMVPA): A single trial approach exploring the temporal dynamics of the BOLD signal. Journal of Neuroscience Methods, 2018, 308, 74-87.	2.5	10
277	Multivoxel Pattern of Blood Oxygen Level Dependent Activity can be sensitive to stimulus specific fine scale responses. Scientific Reports, 2020, 10, 7565.	3.3	10
278	Progress in Imaging the Human Torso at the Ultrahigh Fields of 7 and 10.5ÂT. Magnetic Resonance Imaging Clinics of North America, 2021, 29, e1-e19.	1.1	10
279	Spatial specificity of high-resolution, spin-echo BOLD, and CBF fMRI at 7 T. Magnetic Resonance in Medicine, 2004, 51, 646-647.	3.0	9
280	Measurement of Arterial Input Function in Hyperpolarized 13C Studies. Applied Magnetic Resonance, 2012, 43, 289-297.	1.2	9
281	Radiofrequency heating studies on anesthetized swine using fractionated dipole antennas at 10.5 T. Magnetic Resonance in Medicine, 2018, 79, 479-488.	3.0	9
282	Clarifying the role of higher-level cortices in resolving perceptual ambiguity using ultra high field fMRI. NeuroImage, 2021, 227, 117654.	4.2	9
283	A 16-Channel Dipole Antenna Array for Human Head Magnetic Resonance Imaging at 10.5 Tesla. Sensors, 2021, 21, 7250.	3.8	9
284	A nineâ€channel transmit/receive array for spine imaging at 10.5 T: Introduction to a nonuniform dielectric substrate antenna. Magnetic Resonance in Medicine, 2022, 87, 2074-2088.	3.0	9
285	Cortical layer-specific differences in stimulus selectivity revealed with high-field fMRI and single-vessel resolution optical imaging of the primary visual cortex. NeuroImage, 2022, 251, 118978.	4.2	9
286	Spectroscopic imaging using variable angle excitation from adiabatic plane-rotation pulses. Magnetic Resonance in Medicine, 1991, 19, 496-501.	3.0	8
287	Rapid31P NMR test of liver function. Magnetic Resonance in Medicine, 1988, 8, 220-223.	3.0	7
288	Simple partial volume transceive coils for in vivo1H MR studies at high magnetic fields. Concepts in Magnetic Resonance Part B, 2007, 31B, 71-85.	0.7	7

#	Article	IF	CITATIONS
289	Bilateral Multiband 4D Flow MRI of the Carotid Arteries at 7T. Magnetic Resonance in Medicine, 2020, 84, 1947-1960.	3.0	7
290	Quantitative and simultaneous measurement of oxygen consumption rates in rat brain and skeletal muscle using ¹⁷ O MRS imaging at 16.4T. Magnetic Resonance in Medicine, 2021, 85, 2232-2246.	3.0	7
291	Ultra-high field (10.5T) diffusion-weighted MRI of the macaque brain. NeuroImage, 2022, 255, 119200.	4.2	7
292	The Fourier Series Window Method for Spatially Localized NMR Spectroscopy Annals of the New York Academy of Sciences, 1987, 508, 512-515.	3.8	6
293	170 relaxation times in the rat brain at 16.4 tesla. Magnetic Resonance in Medicine, 2016, 75, 1886-1893.	3.0	6
294	Statistical power or more precise insights into neuro-temporal dynamics? Assessing the benefits of rapid temporal sampling in fMRI. Progress in Neurobiology, 2021, 207, 102171.	5.7	6
295	BRIDGING THE GAP BETWEEN NEUROIMAGING AND NEURONAL PHYSIOLOGY. Image Analysis and Stereology, 2002, 21, 97.	0.9	6
296	Residual RAKI: A hybrid linear and non-linear approach for scan-specific k-space deep learning. Neurolmage, 2022, 256, 119248.	4.2	6
297	Detection of 13C-labeled metabolites in thein vivo canine heart by B1 insensitive heteronuclear coherent polarization transfer and comparison of signal enhancement with NOE. Magnetic Resonance in Medicine, 1997, 37, 327-330.	3.0	5
298	Evaluation of a 16-Channel Transmitter for Head Imaging at 10.5T., 2019, , .		5
299	Displacement current distribution on a high dielectric constant helmet and its effect on RF field at 10.5 T (447 MHz). Magnetic Resonance in Medicine, 2021, 86, 3292-3303.	3.0	5
300	Evaluation of 8-Channel Radiative Antenna Arrays for Human Head Imaging at 10.5 Tesla. Sensors, 2021, 21, 6000.	3.8	5
301	Physiology and Physics of the fMRI Signal. Biological Magnetic Resonance, 2015, , 163-213.	0.4	5
302	RF pulse methods for use with surface coils: Frequency-modulated pulses and parallel transmission. Journal of Magnetic Resonance, 2018, 291, 84-93.	2.1	4
303	A Monopole and Dipole Hybrid Antenna Array for Human Brain Imaging at 10.5 Tesla. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 1857-1861.	4.0	4
304	Mitigating transmitâ€B ₁ artifacts by predicting parallel transmission images with deep learning: A feasibility study using highâ€resolution wholeâ€brain diffusion at 7 Tesla. Magnetic Resonance in Medicine, 2022, , .	3.0	3
305	Cytosolic Inorganic Phosphate Does Not Appear To Regulate the Contractile Response in the Intact Rat Heart. Annals of the New York Academy of Sciences, 1987, 508, 432-434.	3.8	2
306	Post-ischemic Mechanical Performance: Independence from ATP Levels. Annals of the New York Academy of Sciences, 1987, 508, 501-503.	3.8	2

#	Article	IF	CITATIONS
307	31P-31P coupling and ATPT2 measurement in human brain at 7T. Magnetic Resonance in Medicine, 2003, 50, 656-658.	3.0	2
308	Imaging Cerebral Metabolic Rate of Oxygen Consumption (CMRO2) Using 170 NMR Approach at Ultrahigh Field., 2005,, 125-146.		2
309	Diffusion-weighted spin-echo fMRI at 9.4 T: Microvascular/tissue contribution to BOLD signal changes. , 1999, 42, 919.		2
310	Hepatic D-galactosamine toxicity studied with localized in Vivo 31P magnetic resonance spectroscopy in intact rats. Magnetic Resonance in Medicine, 1991, 21, 178-190.	3.0	1
311	Comparison of BOLD- and CBF-based fMRI. NeuroImage, 1996, 3, S31.	4.2	1
312	New Opportunities for High-Field In Vivo MRS in Studying Brain Bioenergetics and Function. Brain Imaging and Behavior, 2008, 2, 232-241.	2.1	1
313	The Use of Magnetic Resonance Methods in Translational Cardiovascular Research. Journal of Cardiovascular Translational Research, 2009, 2, 39-47.	2.4	1
314	Neural correlates of visual form and visual spatial processing. Human Brain Mapping, 1999, 8, 60-71.	3 . 6	1
315	Subchronic In Vivo Effects of a High Static Magnetic Field (9.4 T) in Rats. Journal of Magnetic Resonance Imaging, 2000, 12, 122-139.	3.4	1
316	Comparison of T2*-weighted sequences for functional MRI. International Journal of Imaging Systems and Technology, 1995, 6, 184-190.	4.1	0
317	Bilder aus dem Gehirn funktionelle Bildgebung mit NMR. Physik in Unserer Zeit, 1996, 27, 17-27.	0.0	O
318	Electromagnetic Modeling of High-Channel Count Head Receiver Arrays for ultra-High Field MRI. , 2021, , .		0
319	New metabolic 13C isotopomer modeling approach for elucidating brain neuronâ€glia metabolism. FASEB Journal, 2008, 22, 756.4.	0.5	O