

Kamil Ugurbil

List of Publications by Year in descending order

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319
papers

47,168
citations

2311

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341
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341
docs citations

341
times ranked

28098
citing authors

#	ARTICLE	IF	CITATIONS
1	A nine-channel transmit/receive array for spine imaging at 10.5 T: Introduction to a nonuniform dielectric substrate antenna. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 2074-2088.	1.9	9
2	Cortical layer-specific differences in stimulus selectivity revealed with high-field fMRI and single-vessel resolution optical imaging of the primary visual cortex. <i>NeuroImage</i> , 2022, 251, 118978.	2.1	9
3	Intrinsic timescales as an organizational principle of neural processing across the whole rhesus macaque brain. <i>ELife</i> , 2022, 11, .	2.8	19
4	Ultra-high field (10.5T) diffusion-weighted MRI of the macaque brain. <i>NeuroImage</i> , 2022, 255, 119200.	2.1	7
5	Mitigating transmit artifacts by predicting parallel transmission images with deep learning: A feasibility study using high-resolution whole-brain diffusion at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2022, , .	1.9	3
6	Residual RAKI: A hybrid linear and non-linear approach for scan-specific k-space deep learning. <i>NeuroImage</i> , 2022, 256, 119248.	2.1	6
7	A Monopole and Dipole Hybrid Antenna Array for Human Brain Imaging at 10.5 Tesla. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2022, 21, 1857-1861.	2.4	4
8	Magnetic field strength dependent SNR gain at the center of a spherical phantom and up to 11.7T. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 2131-2138.	1.9	21
9	Diffusion Imaging in the Post HCP Era. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 54, 36-57.	1.9	22
10	Progress in Imaging the Human Torso at the Ultrahigh Fields of 7 and 10.5T. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2021, 29, e1-e19.	0.6	10
11	NOise reduction with Distribution Corrected (NORDIC) PCA in dMRI with complex-valued parameter-free locally low-rank processing. <i>NeuroImage</i> , 2021, 226, 117539.	2.1	57
12	Clarifying the role of higher-level cortices in resolving perceptual ambiguity using ultra high field fMRI. <i>NeuroImage</i> , 2021, 227, 117654.	2.1	9
13	Quantitative and simultaneous measurement of oxygen consumption rates in rat brain and skeletal muscle using ¹⁷ O MRS imaging at 16.4T. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2232-2246.	1.9	7
14	An 8-dipole transceive and 24-loop receive array for non-human primate head imaging at 10.5 T. <i>NMR in Biomedicine</i> , 2021, 34, e4472.	1.6	16
15	A self-decoupled 32-channel receive array for human brain MRI at 10.5 T. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 1759-1772.	1.9	11
16	Long-term behavioral effects observed in mice chronically exposed to static ultra-high magnetic fields. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 1544-1559.	1.9	23
17	Ultrahigh field and ultrahigh resolution fMRI. <i>Current Opinion in Biomedical Engineering</i> , 2021, 18, 100288.	1.8	13
18	Displacement current distribution on a high dielectric constant helmet and its effect on RF field at 10.5 T (447 MHz). <i>Magnetic Resonance in Medicine</i> , 2021, 86, 3292-3303.	1.9	5

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19	Electromagnetic Modeling of High-Channel Count Head Receiver Arrays for ultra-High Field MRI. , 2021, , .		0
20	Lowering the thermal noise barrier in functional brain mapping with magnetic resonance imaging. Nature Communications, 2021, 12, 5181.	5.8	68
21	Evaluation of 8-Channel Radiative Antenna Arrays for Human Head Imaging at 10.5 Tesla. Sensors, 2021, 21, 6000.	2.1	5
22	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.	2.8	6
23	The Human Connectome Project: A retrospective. NeuroImage, 2021, 244, 118543.	2.1	114
24	Effect of radiofrequency shield diameter on signal-to-noise ratio at ultra-high field MRI. Magnetic Resonance in Medicine, 2021, 85, 3522-3530.	1.9	11
25	A 16-Channel Dipole Antenna Array for Human Head Magnetic Resonance Imaging at 10.5 Tesla. Sensors, 2021, 21, 7250.	2.1	9
26	In vivo human head MRI at 10.5T: A radiofrequency safety study and preliminary imaging results. Magnetic Resonance in Medicine, 2020, 84, 484-496.	1.9	59
27	First in vivo human imaging at 10.5T: Imaging the body at 447 MHz. Magnetic Resonance in Medicine, 2020, 84, 289-303.	1.9	53
28	Ultra-high field (10.5 T) resting state fMRI in the macaque. NeuroImage, 2020, 223, 117349.	2.1	30
29	10.5T MRI static field effects on human cognitive, vestibular, and physiological function. Magnetic Resonance Imaging, 2020, 73, 163-176.	1.0	23
30	Multivoxel Pattern of Blood Oxygen Level Dependent Activity can be sensitive to stimulus specific fine scale responses. Scientific Reports, 2020, 10, 7565.	1.6	10
31	A temporal decomposition method for identifying venous effects in task-based fMRI. Nature Methods, 2020, 17, 1033-1039.	9.0	33
32	Evaluation of a 16-Channel Transceiver Loop + Dipole Antenna Array for Human Head Imaging at 10.5 Tesla. IEEE Access, 2020, 8, 203555-203563.	2.6	13
33	Bilateral Multiband 4D Flow MRI of the Carotid Arteries at 7T. Magnetic Resonance in Medicine, 2020, 84, 1947-1960.	1.9	7
34	Improving radiofrequency power and specific absorption rate management with bumped transmit elements in ultra-high field MRI. Magnetic Resonance in Medicine, 2020, 84, 3485-3493.	1.9	19
35	Self-supervised learning of physics-guided reconstruction neural networks without fully sampled reference data. Magnetic Resonance in Medicine, 2020, 84, 3172-3191.	1.9	133
36	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. NeuroImage, 2020, 216, 116861.	2.1	13

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37	Denoise magnitude diffusion magnetic resonance images via variance-stabilizing transformation and optimal singular-value manipulation. <i>NeuroImage</i> , 2020, 215, 116852.	2.1	28
38	Accelerated coronary MRI with sRAKI: A database-free self-consistent neural network k-space reconstruction for arbitrary undersampling. <i>PLoS ONE</i> , 2020, 15, e0229418.	1.1	25
39	Self-navigated 3D multishot EPI with data-reference. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1747-1762.	1.9	16
40	Evolution of UHF Body Imaging in the Human Torso at 7T. <i>Topics in Magnetic Resonance Imaging</i> , 2019, 28, 101-124.	0.7	29
41	Evaluation of a 16-Channel Transmitter for Head Imaging at 10.5T. , 2019, , .		5
42	A critical assessment of data quality and venous effects in sub-millimeter fMRI. <i>NeuroImage</i> , 2019, 189, 847-869.	2.1	87
43	Processing complexity increases in superficial layers of human primary auditory cortex. <i>Scientific Reports</i> , 2019, 9, 5502.	1.6	32
44	Brain imaging with improved acceleration and SNR at 7 Tesla obtained with 64-channel receive array. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 495-509.	1.9	53
45	Scan-specific robust artificial neural networks for k-space interpolation (RAKI) reconstruction: Database-free deep learning for fast imaging. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 439-453.	1.9	253
46	The Lifespan Human Connectome Project in Aging: An overview. <i>NeuroImage</i> , 2019, 185, 335-348.	2.1	186
47	Human Connectome Project-style resting-state functional MRI at 7 Tesla using radiofrequency parallel transmission. <i>NeuroImage</i> , 2019, 184, 396-408.	2.1	22
48	A simple geometric analysis method for measuring and mitigating RF induced currents on Deep Brain Stimulation leads by multichannel transmission/reception. <i>NeuroImage</i> , 2019, 184, 658-668.	2.1	25
49	The UNC/UMN Baby Connectome Project (BCP): An overview of the study design and protocol development. <i>NeuroImage</i> , 2019, 185, 891-905.	2.1	234
50	High-resolution whole-brain diffusion MRI at 7T using radiofrequency parallel transmission. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1857-1870.	1.9	31
51	RF pulse methods for use with surface coils: Frequency-modulated pulses and parallel transmission. <i>Journal of Magnetic Resonance</i> , 2018, 291, 84-93.	1.2	4
52	Optimization of functional MRI for detection, decoding and high-resolution imaging of the response patterns of cortical columns. <i>NeuroImage</i> , 2018, 164, 67-99.	2.1	17
53	Quantitative single breath-hold renal arterial spin labeling imaging at 7T. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 815-825.	1.9	12
54	Sensitivity and specificity considerations for fMRI encoding, decoding, and mapping of auditory cortex at ultra-high field. <i>NeuroImage</i> , 2018, 164, 18-31.	2.1	52

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55	The impact of ultra-high field MRI on cognitive and computational neuroimaging. <i>NeuroImage</i> , 2018, 168, 366-382.	2.1	93
56	Investigating the physiological effects of 10.5 Tesla static field exposure on anesthetized swine. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 511-514.	1.9	10
57	Radiofrequency heating studies on anesthetized swine using fractionated dipole antennas at 10.5 T. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 479-488.	1.9	9
58	Imaging at ultrahigh magnetic fields: History, challenges, and solutions. <i>NeuroImage</i> , 2018, 168, 7-32.	2.1	98
59	Spatial specificity of the functional MRI blood oxygenation response relative to neuronal activity. <i>NeuroImage</i> , 2018, 164, 32-47.	2.1	39
60	The Human Connectome Project 7 Tesla retinotopy dataset: Description and population receptive field analysis. <i>Journal of Vision</i> , 2018, 18, 23.	0.1	139
61	Extending the Human Connectome Project across ages: Imaging protocols for the Lifespan Development and Aging projects. <i>NeuroImage</i> , 2018, 183, 972-984.	2.1	290
62	Temporal multivariate pattern analysis (tMVPA): A single trial approach exploring the temporal dynamics of the BOLD signal. <i>Journal of Neuroscience Methods</i> , 2018, 308, 74-87.	1.3	10
63	Evaluating the Columnar Stability of Acoustic Processing in the Human Auditory Cortex. <i>Journal of Neuroscience</i> , 2018, 38, 7822-7832.	1.7	22
64	Cortical fibers orientation mapping using in-vivo whole brain 7T diffusion MRI. <i>NeuroImage</i> , 2018, 178, 104-118.	2.1	29
65	Simultaneous multislice imaging in dynamic cardiac MRI at 7T using parallel transmission. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1010-1020.	1.9	37
66	A 16-channel combined loop-dipole transceiver array for 7 Tesla body MRI. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 884-894.	1.9	138
67	Reconstructing the spectrotemporal modulations of real-life sounds from fMRI response patterns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4799-4804.	3.3	88
68	Tradeoffs in pushing the spatial resolution of fMRI for the 7T Human Connectome Project. <i>NeuroImage</i> , 2017, 154, 23-32.	2.1	117
69	A proof-of-concept study for developing integrated two-photon microscopic and magnetic resonance imaging modality at ultrahigh field of 16.4 tesla. <i>Scientific Reports</i> , 2017, 7, 2733.	1.6	18
70	Toward imaging the body at 10.5 tesla. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 434-443.	1.9	79
71	Motion-robust cardiac B1+ mapping at 3T using interleaved bloch-siegert shifts. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 670-677.	1.9	11
72	Towards high-resolution 4D flow MRI in the human aorta using kGRAPPA and B1+ shimming at 7T. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 486-499.	1.9	25

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73	A generalized slabwise framework for parallel transmit multiband RF pulse design. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1444-1456.	1.9	22
74	17O relaxation times in the rat brain at 16.4 tesla. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1886-1893.	1.9	6
75	Distributing coil elements in three dimensions enhances parallel transmission multiband <sc>RF</sc> performance: A simulation study in the human brain at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 2464-2472.	1.9	21
76	Toward 20ÂT magnetic resonance for human brain studies: opportunities for discovery and neuroscience rationale. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2016, 29, 617-639.	1.1	66
77	Fusion in diffusion MRI for improved fibre orientation estimation: An application to the 3T and 7T data of the Human Connectome Project. <i>NeuroImage</i> , 2016, 134, 396-409.	2.1	91
78	The Human Connectome Project's neuroimaging approach. <i>Nature Neuroscience</i> , 2016, 19, 1175-1187.	7.1	825
79	What is feasible with imaging human brain function and connectivity using functional magnetic resonance imaging. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150361.	1.8	56
80	A multi-modal parcellation of human cerebral cortex. <i>Nature</i> , 2016, 536, 171-178.	13.7	3,634
81	Direct control of the temperature rise in parallel transmission by means of temperature virtual observation points: Simulations at 10.5 tesla. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 249-256.	1.9	26
82	ConnectomeDBâ€”Sharing human brain connectivity data. <i>NeuroImage</i> , 2016, 124, 1102-1107.	2.1	80
83	Measuring renal tissue relaxation times at 7 T. <i>NMR in Biomedicine</i> , 2015, 28, 63-69.	1.6	14
84	Processing of frequency and location in human subcortical auditory structures. <i>Scientific Reports</i> , 2015, 5, 17048.	1.6	54
85	Contextual Feedback to Superficial Layers of V1. <i>Current Biology</i> , 2015, 25, 2690-2695.	1.8	303
86	Less noise, more activation: Multiband acquisition schemes for auditory functional MRI. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 462-467.	1.9	23
87	Design of parallel transmission radiofrequency pulses robust against respiration in cardiac MRI at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1291-1305.	1.9	34
88	Comparison of RF body coils for MRI at 3â€‰T: a simulation study using parallel transmission on various anatomical targets. <i>NMR in Biomedicine</i> , 2015, 28, 1332-1344.	1.6	28
89	Frequency preference and attention effects across cortical depths in the human primary auditory cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 16036-16041.	3.3	153
90	In vivo NAD assay reveals the intracellular NAD contents and redox state in healthy human brain and their age dependences. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2876-2881.	3.3	337

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91	Theoretical and experimental evaluation of multi-band EPI for high-resolution whole brain pCASL Imaging. <i>NeuroImage</i> , 2015, 106, 170-181.	2.1	36
92	High-Resolution Mapping of Myeloarchitecture In Vivo: Localization of Auditory Areas in the Human Brain. <i>Cerebral Cortex</i> , 2015, 25, 3394-3405.	1.6	90
93	Simultaneous multi-slice Turbo-FLASH imaging with CAIPIRINHA for whole brain distortion-free pseudo-continuous arterial spin labeling at 3 and 7 T. <i>NeuroImage</i> , 2015, 113, 279-288.	2.1	57
94	Heritability of fractional anisotropy in human white matter: A comparison of Human Connectome Project and ENIGMA-DTI data. <i>NeuroImage</i> , 2015, 111, 300-311.	2.1	227
95	A positive-negative mode of population covariation links brain connectivity, demographics and behavior. <i>Nature Neuroscience</i> , 2015, 18, 1565-1567.	7.1	782
96	The BRAIN Initiative: developing technology to catalyse neuroscience discovery. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140164.	1.8	179
97	A voxel-wise encoding model for early visual areas decodes mental images of remembered scenes. <i>NeuroImage</i> , 2015, 105, 215-228.	2.1	252
98	Physiology and Physics of the fMRI Signal. <i>Biological Magnetic Resonance</i> , 2015, , 163-213.	0.4	5
99	Encoding of Natural Sounds at Multiple Spectral and Temporal Resolutions in the Human Auditory Cortex. <i>PLoS Computational Biology</i> , 2014, 10, e1003412.	1.5	187
100	Seven-Tesla Time-of-Flight Angiography Using a 16-Channel Parallel Transmit System With Power-Constrained 3-dimensional Spoke Radiofrequency Pulse Design. <i>Investigative Radiology</i> , 2014, 49, 314-325.	3.5	29
101	ICA-based artefact removal and accelerated fMRI acquisition for improved resting state network imaging. <i>NeuroImage</i> , 2014, 95, 232-247.	2.1	1,148
102	Estimation of the CSA's ODF using Bayesian compressed sensing of multi-shell HARDI. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 1471-1485.	1.9	15
103	Magnetic Resonance Imaging at Ultrahigh Fields. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 1364-1379.	2.5	118
104	Cerebral TOF angiography at 7T: Impact of B_1 shimming with a 16-channel transceiver array. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 966-977.	1.9	32
105	Mitigating transmit B_1 inhomogeneity in the liver at 7T using multi-spoke parallel transmit RF pulse design. <i>Quantitative Imaging in Medicine and Surgery</i> , 2014, 4, 4-10.	1.1	38
106	Dynamically applied B_1 shimming solutions for non-contrast enhanced renal angiography at 7.0 tesla. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 114-126.	1.9	57
107	In vitro and in vivo studies of ^{17}O NMR sensitivity at 9.4 and 16.4 T. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1523-1527.	1.9	26
108	Processing of Natural Sounds: Characterization of Multiplex Spectral Tuning in Human Auditory Cortex. <i>Journal of Neuroscience</i> , 2013, 33, 11888-11898.	1.7	73

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109	Spatially constrained hierarchical parcellation of the brain with resting-state fMRI. <i>NeuroImage</i> , 2013, 76, 313-324.	2.1	203
110	Advances in diffusion MRI acquisition and processing in the Human Connectome Project. <i>NeuroImage</i> , 2013, 80, 125-143.	2.1	851
111	Functional connectomics from resting-state fMRI. <i>Trends in Cognitive Sciences</i> , 2013, 17, 666-682.	4.0	802
112	The WU-Minn Human Connectome Project: An overview. <i>NeuroImage</i> , 2013, 80, 62-79.	2.1	4,282
113	RubiX: Combining Spatial Resolutions for Bayesian Inference of Crossing Fibers in Diffusion MRI. <i>IEEE Transactions on Medical Imaging</i> , 2013, 32, 969-982.	5.4	32
114	In vivo measurement of CBF using ^{17}O NMR signal of metabolically produced H_2O as a perfusion tracer. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 309-314.	1.9	16
115	Evaluation of slice accelerations using multiband echo planar imaging at 3T. <i>NeuroImage</i> , 2013, 83, 991-1001.	2.1	442
116	Resting-state fMRI in the Human Connectome Project. <i>NeuroImage</i> , 2013, 80, 144-168.	2.1	1,367
117	Pushing spatial and temporal resolution for functional and diffusion MRI in the Human Connectome Project. <i>NeuroImage</i> , 2013, 80, 80-104.	2.1	769
118	Multiband accelerated spin-echo echo planar imaging with reduced peak RF power using time-shifted RF pulses. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1261-1267.	1.9	126
119	Simultaneous multislice multiband parallel radiofrequency excitation with independent slice-specific transmit B1 homogenization. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 630-638.	1.9	63
120	Magnetic Resonance Field Strength Effects on Diffusion Measures and Brain Connectivity Networks. <i>Brain Connectivity</i> , 2013, 3, 72-86.	0.8	42
121	Spatial organization of frequency preference and selectivity in the human inferior colliculus. <i>Nature Communications</i> , 2013, 4, 1386.	5.8	89
122	Cardiac imaging at 7 tesla: Single- and two-spoke radiofrequency pulse design with 16-channel parallel excitation. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1210-1219.	1.9	58
123	Cortical Depth Dependent Functional Responses in Humans at 7T: Improved Specificity with 3D GRASE. <i>PLoS ONE</i> , 2013, 8, e60514.	1.1	151
124	In Vivo Noninvasive Detection of Brown Adipose Tissue through Intermolecular Zero-Quantum MRI. <i>PLoS ONE</i> , 2013, 8, e74206.	1.1	42
125	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. <i>PLoS ONE</i> , 2013, 8, e78078.	1.1	17
126	Temporally-independent functional modes of spontaneous brain activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 3131-3136.	3.3	696

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127	The road to functional imaging and ultrahigh fields. <i>NeuroImage</i> , 2012, 62, 726-735.	2.1	62
128	Development of functional imaging in the human brain (fMRI); the University of Minnesota experience. <i>NeuroImage</i> , 2012, 62, 613-619.	2.1	23
129	Quantitative imaging of energy expenditure in human brain. <i>NeuroImage</i> , 2012, 60, 2107-2117.	2.1	206
130	Spin echo functional MRI in bilateral auditory cortices at 7T: An application of B1 shimming. <i>NeuroImage</i> , 2012, 63, 1313-1320.	2.1	22
131	Functional MRI using super-resolved spatiotemporal encoding. <i>Magnetic Resonance Imaging</i> , 2012, 30, 1401-1408.	1.0	24
132	Metabolic Modeling of Dynamic Brain ¹³ C NMR Multiplet Data: Concepts and Simulations with a Two-Compartment Neuronal-Glial Model. <i>Neurochemical Research</i> , 2012, 37, 2388-2401.	1.6	21
133	Contrast enhancement in TOF cerebral angiography at 7 T using saturation and MT pulses under SAR constraints: Impact of VERSE and sparse pulses. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 188-197.	1.9	35
134	Measurement of Arterial Input Function in Hyperpolarized ¹³ C Studies. <i>Applied Magnetic Resonance</i> , 2012, 43, 289-297.	0.6	9
135	Regional neurochemical profiles in the human brain measured by ¹ H MRS at 7T using local B ₁ shimming. <i>NMR in Biomedicine</i> , 2012, 25, 152-160.	1.6	104
136	Layer-Specific fMRI Reflects Different Neuronal Computations at Different Depths in Human V1. <i>PLoS ONE</i> , 2012, 7, e32536.	1.1	172
137	CyLoP-1: A Novel Cysteine-Rich Cell-Penetrating Peptide for Cytosolic Delivery of Cargoes. <i>Bioconjugate Chemistry</i> , 2011, 22, 319-328.	1.8	65
138	Whole brain high-resolution functional imaging at ultra high magnetic fields: An application to the analysis of resting state networks. <i>NeuroImage</i> , 2011, 57, 1031-1044.	2.1	68
139	Functional magnetic resonance imaging using RASER. <i>NeuroImage</i> , 2011, 54, 350-360.	2.1	45
140	Modeling and analysis of mechanisms underlying fMRI-based decoding of information conveyed in cortical columns. <i>NeuroImage</i> , 2011, 56, 627-642.	2.1	56
141	Mapping the Organization of Axis of Motion Selective Features in Human Area MT Using High-Field fMRI. <i>PLoS ONE</i> , 2011, 6, e28716.	1.1	163
142	Synthesis and characterization of a cell-permeable bimodal contrast agent targeting β -galactosidase. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 2529-2540.	1.4	43
143	Enhanced neurochemical profile of the rat brain using in vivo ¹ H NMR spectroscopy at 16.4 T. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 28-34.	1.9	22
144	Human imaging at 9.4 T using T ₂ *-weighted, phase-weighted, and susceptibility-weighted contrast. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 544-550.	1.9	47

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145	Hippocampal Sclerosis in Temporal Lobe Epilepsy: Findings at 7 T. <i>Radiology</i> , 2011, 261, 199-209.	3.6	104
146	An Assessment of Current Brain Targets for Deep Brain Stimulation Surgery With Susceptibility-Weighted Imaging at 7 Tesla. <i>Neurosurgery</i> , 2010, 67, 1745-1756.	0.6	202
147	Functional MRI mapping neuronal inhibition and excitation at columnar level in human visual cortex. <i>Experimental Brain Research</i> , 2010, 204, 515-524.	0.7	14
148	Retinotopic mapping with spin echo BOLD at 7T. <i>Magnetic Resonance Imaging</i> , 2010, 28, 1258-1269.	1.0	45
149	Noninvasive quantification of human brain ascorbate concentration using ¹ H NMR spectroscopy at 7T. <i>NMR in Biomedicine</i> , 2010, 23, 227-232.	1.6	43
150	Theoretical and experimental evaluation of continuous arterial spin labeling techniques. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 438-446.	1.9	24
151	Parallel excitation in the human brain at 9.4 T counteracting <i>k</i> -space errors with RF pulse design. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 524-529.	1.9	43
152	Multiband multislice GE-EPI at 7 tesla, with 16-fold acceleration using partial parallel imaging with application to high spatial and temporal whole-brain fMRI. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 1144-1153.	1.9	1,329
153	Reconstruction of the orientation distribution function in single- and multiple-shell q-ball imaging within constant solid angle. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 554-566.	1.9	329
154	A 32-channel lattice transmission line array for parallel transmit and receive MRI at 7 tesla. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 1478-1485.	1.9	80
155	Performance of external and internal coil configurations for prostate investigations at 7 T. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1625-1639.	1.9	63
156	Neurochemical changes in the developing rat hippocampus during prolonged hypoglycemia. <i>Journal of Neurochemistry</i> , 2010, 114, 728-738.	2.1	40
157	Relationship of the BOLD Signal with VEP for Ultrashort Duration Visual Stimuli (0.1 to 5 ms) in Humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 449-458.	2.4	23
158	Recent Advances in High-Resolution MR Application and Its Implications for Neurovascular Coupling Research. <i>Frontiers in Neuroenergetics</i> , 2010, 2, 130.	5.3	23
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