

Kamil Ugurbil

List of Publications by Year in Descending Order

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Version: 2024-04-19

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

317
papers

35,061
citations

94
h-index

182
g-index

341
ext. papers

42,556
ext. citations

5.9
avg, IF

7.15
L-index

#	Paper	IF	Citations
317	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	7.9	0
316	Ultra-high field (10.5T) diffusion-weighted MRI of the macaque brain.. <i>NeuroImage</i> , 2022 , 119200	7.9	0
315	Technology for Ultrahigh Field Imaging 2022 , 75-99		
314	Residual RAKI: A Hybrid Linear and Non-Linear Approach for Scan-Specific k-space Deep Learning.. <i>NeuroImage</i> , 2022 , 119248	7.9	0
313	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> , 2021 ,	4.4	1
312	A 16-Channel Dipole Antenna Array for Human Head Magnetic Resonance Imaging at 10.5 Tesla. <i>Sensors</i> , 2021 , 21,	3.8	1
311	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	4.4	4
310	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	4.4	8
309	ULTRAHIGH FIELD and ULTRAHIGH RESOLUTION fMRI. <i>Current Opinion in Biomedical Engineering</i> , 2021 , 18,	4.4	1
308	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	4.4	2
307	Diffusion Imaging in the Post HCP Era. <i>Journal of Magnetic Resonance Imaging</i> , 2021 , 54, 36-57	5.6	11
306	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	1.6	2
305	NOise reduction with DIstribution Corrected (NORDIC) PCA in dMRI with complex-valued parameter-free locally low-rank processing. <i>NeuroImage</i> , 2021 , 226, 117539	7.9	10
304	Clarifying the role of higher-level cortices in resolving perceptual ambiguity using ultra high field fMRI. <i>NeuroImage</i> , 2021 , 227, 117654	7.9	1
303	Quantitative and simultaneous measurement of oxygen consumption rates in rat brain and skeletal muscle using O MRS imaging at 16.4T. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 2232-2246	4.4	2
302	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	4.4	2
301	Lowering the thermal noise barrier in functional brain mapping with magnetic resonance imaging. <i>Nature Communications</i> , 2021 , 12, 5181	17.4	9

300	Evaluation of 8-Channel Radiative Antenna Arrays for Human Head Imaging at 10.5 Tesla. <i>Sensors</i> , 2021 , 21,	3.8	1
299	Statistical power or more precise insights into neuro-temporal dynamics? Assessing the benefits of rapid temporal sampling in fMRI. <i>Progress in Neurobiology</i> , 2021 , 207, 102171	10.9	0
298	The Human Connectome Project: A retrospective. <i>NeuroImage</i> , 2021 , 244, 118543	7.9	15
297	Effect of radiofrequency shield diameter on signal-to-noise ratio at ultra-high field MRI. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 3522-3530	4.4	1
296	Bilateral Multiband 4D Flow MRI of the Carotid Arteries at 7T. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 1947-1960	4.4	3
295	Improving radiofrequency power and specific absorption rate management with bumped transmit elements in ultra-high field MRI. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 3485-3493	4.4	9
294	Self-supervised learning of physics-guided reconstruction neural networks without fully sampled reference data. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 3172-3191	4.4	54
293	A field-monitoring-based approach for correcting eddy-current-induced artifacts of up to the 2 spatial order in human-connectome-project-style multiband diffusion MRI experiment at 7T: A pilot study. <i>NeuroImage</i> , 2020 , 216, 116861	7.9	4
292	Denoise magnitude diffusion magnetic resonance images via variance-stabilizing transformation and optimal singular-value manipulation. <i>NeuroImage</i> , 2020 , 215, 116852	7.9	6
291	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	3.7	14
290	Self-navigation for 3D multishot EPI with data-reference. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 1747-1762	4.4	7
289	In vivo human head MRI at 10.5T: A radiofrequency safety study and preliminary imaging results. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 484-496	4.4	32
288	First in-vivo human imaging at 10.5T: Imaging the body at 447 MHz. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 289-303	4.4	33
287	Ultra-high field (10.5 T) resting state fMRI in the macaque. <i>NeuroImage</i> , 2020 , 223, 117349	7.9	8
286	10.5T MRI static field effects on human cognitive, vestibular, and physiological function. <i>Magnetic Resonance Imaging</i> , 2020 , 73, 163-176	3.3	10
285	Multivoxel Pattern of Blood Oxygen Level Dependent Activity can be sensitive to stimulus specific fine scale responses. <i>Scientific Reports</i> , 2020 , 10, 7565	4.9	5
284	A temporal decomposition method for identifying venous effects in task-based fMRI. <i>Nature Methods</i> , 2020 , 17, 1033-1039	21.6	8
283	Evaluation of a 16-channel transceiver loop + dipole antenna array for human head imaging at 10.5 tesla. <i>IEEE Access</i> , 2020 , 8, 203555-203563	3.5	5

282	A critical assessment of data quality and venous effects in sub-millimeter fMRI. <i>NeuroImage</i> , 2019 , 189, 847-869	7.9	43
281	Processing complexity increases in superficial layers of human primary auditory cortex. <i>Scientific Reports</i> , 2019 , 9, 5502	4.9	13
280	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	4.4	26
279	Evolution of UHF Body Imaging in the Human Torso at 7T: Technology, Applications, and Future Directions. <i>Topics in Magnetic Resonance Imaging</i> , 2019 , 28, 101-124	2.3	18
278	Evaluation of a 16-Channel Transmitter for Head Imaging at 10.5T 2019 ,		2
277	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	4.4	145
276	The Lifespan Human Connectome Project in Aging: An overview. <i>NeuroImage</i> , 2019 , 185, 335-348	7.9	74
275	Human Connectome Project-style resting-state functional MRI at 7 Tesla using radiofrequency parallel transmission. <i>NeuroImage</i> , 2019 , 184, 396-408	7.9	14
274	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	7.9	17
273	The UNC/UMN Baby Connectome Project (BCP): An overview of the study design and protocol development. <i>NeuroImage</i> , 2019 , 185, 891-905	7.9	140
272	High-resolution whole-brain diffusion MRI at 7T using radiofrequency parallel transmission. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 1857-1870	4.4	16
271	RF pulse methods for use with surface coils: Frequency-modulated pulses and parallel transmission. <i>Journal of Magnetic Resonance</i> , 2018 , 291, 84-93	3	3
270	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	7.9	9
269	Quantitative single breath-hold renal arterial spin labeling imaging at 7T. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 815-825	4.4	8
268	Sensitivity and specificity considerations for fMRI encoding, decoding, and mapping of auditory cortex at ultra-high field. <i>NeuroImage</i> , 2018 , 164, 18-31	7.9	35
267	The impact of ultra-high field MRI on cognitive and computational neuroimaging. <i>NeuroImage</i> , 2018 , 168, 366-382	7.9	64
266	Investigating the physiological effects of 10.5 Tesla static field exposure on anesthetized swine. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 511-514	4.4	10
265	Radiofrequency heating studies on anesthetized swine using fractionated dipole antennas at 10.5 T. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 479-488	4.4	7

264	Imaging at ultrahigh magnetic fields: History, challenges, and solutions. <i>NeuroImage</i> , 2018 , 168, 7-32	7.9	60
263	Spatial specificity of the functional MRI blood oxygenation response relative to neuronal activity. <i>NeuroImage</i> , 2018 , 164, 32-47	7.9	21
262	Evaluating the Columnar Stability of Acoustic Processing in the Human Auditory Cortex. <i>Journal of Neuroscience</i> , 2018 , 38, 7822-7832	6.6	11
261	Cortical fibers orientation mapping using in-vivo whole brain 7 T diffusion MRI. <i>NeuroImage</i> , 2018 , 178, 104-118	7.9	17
260	The Human Connectome Project 7 Tesla retinotopy dataset: Description and population receptive field analysis. <i>Journal of Vision</i> , 2018 , 18, 23	0.4	69
259	Extending the Human Connectome Project across ages: Imaging protocols for the Lifespan Development and Aging projects. <i>NeuroImage</i> , 2018 , 183, 972-984	7.9	101
258	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	3	3
257	Simultaneous multislice imaging in dynamic cardiac MRI at 7T using parallel transmission. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 1010-1020	4.4	30
256	A 16-channel combined loop-dipole transceiver array for 7 Tesla body MRI. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 884-894	4.4	107
255	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	11.5	53
254	Tradeoffs in pushing the spatial resolution of fMRI for the 7T Human Connectome Project. <i>NeuroImage</i> , 2017 , 154, 23-32	7.9	68
253	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	4.9	10
252	Toward imaging the body at 10.5 tesla. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 434-443	4.4	54
251	Motion-robust cardiac B1+ mapping at 3T using interleaved bloch-siegert shifts. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 670-677	4.4	7
250	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, 249-56	4.4	22
249	ConnectomeDB--Sharing human brain connectivity data. <i>NeuroImage</i> , 2016 , 124, 1102-1107	7.9	59
248	The Human Connectome Project@ neuroimaging approach. <i>Nature Neuroscience</i> , 2016 , 19, 1175-87	25.5	482
247	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,	5.8	36

246	A multi-modal parcellation of human cerebral cortex. <i>Nature</i> , 2016 , 536, 171-178	50.4	2046
245	Towards high-resolution 4D flow MRI in the human aorta using kt-GRAPPA and B1+ shimming at 7T. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 44, 486-99	5.6	21
244	A generalized slab-wise framework for parallel transmit multiband RF pulse design. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 1444-56	4.4	20
243	(17)O relaxation times in the rat brain at 16.4 tesla. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 1886-93	4.4	5
242	Distributing coil elements in three dimensions enhances parallel transmission multiband RF performance: A simulation study in the human brain at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 2464-72	4.4	15
241	Toward 20T magnetic resonance for human brain studies: opportunities for discovery and neuroscience rationale. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2016 , 29, 617-39	2.8	46
240	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	7.9	67
239	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, 2876-81	11.5	230
238	Theoretical and experimental evaluation of multi-band EPI for high-resolution whole brain pCASL Imaging. <i>NeuroImage</i> , 2015 , 106, 170-81	7.9	28
237	High-Resolution Mapping of Myeloarchitecture In Vivo: Localization of Auditory Areas in the Human Brain. <i>Cerebral Cortex</i> , 2015 , 25, 3394-405	5.1	71
236	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, 279-88	7.9	42
235	Heritability of fractional anisotropy in human white matter: a comparison of Human Connectome Project and ENIGMA-DTI data. <i>NeuroImage</i> , 2015 , 111, 300-11	7.9	159
234	A positive-negative mode of population covariation links brain connectivity, demographics and behavior. <i>Nature Neuroscience</i> , 2015 , 18, 1565-7	25.5	551
233	The BRAIN Initiative: developing technology to catalyse neuroscience discovery. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015 , 370,	5.8	119
232	A voxel-wise encoding model for early visual areas decodes mental images of remembered scenes. <i>NeuroImage</i> , 2015 , 105, 215-28	7.9	164
231	Measuring renal tissue relaxation times at 7 T. <i>NMR in Biomedicine</i> , 2015 , 28, 63-9	4.4	12
230	Processing of frequency and location in human subcortical auditory structures. <i>Scientific Reports</i> , 2015 , 5, 17048	4.9	39
229	Contextual Feedback to Superficial Layers of V1. <i>Current Biology</i> , 2015 , 25, 2690-5	6.3	202

228	Less noise, more activation: Multiband acquisition schemes for auditory functional MRI. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 462-7	4.4	18
227	Design of parallel transmission radiofrequency pulses robust against respiration in cardiac MRI at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 1291-305	4.4	29
226	Comparison of RF body coils for MRI at 3 T: a simulation study using parallel transmission on various anatomical targets. <i>NMR in Biomedicine</i> , 2015 , 28, 1332-44	4.4	23
225	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, 16036-41	11.5	112
224	Physiology and Physics of the fMRI Signal. <i>Biological Magnetic Resonance</i> , 2015 , 163-213	0.5	4
223	ICA-based artefact removal and accelerated fMRI acquisition for improved resting state network imaging. <i>NeuroImage</i> , 2014 , 95, 232-47	7.9	708
222	Estimation of the CSA-ODF using Bayesian compressed sensing of multi-shell HARDI. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 1471-85	4.4	14
221	Magnetic resonance imaging at ultrahigh fields. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 1364-79	5	81
220	Cerebral TOF angiography at 7T: Impact of B1 (+) shimming with a 16-channel transceiver array. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 966-77	4.4	28
219	Encoding of natural sounds at multiple spectral and temporal resolutions in the human auditory cortex. <i>PLoS Computational Biology</i> , 2014 , 10, e1003412	5	126
218	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, 314-25	10.1	25
217	Mitigating transmit B1 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	3.6	24
216	Dynamically applied B1+ shimming solutions for non-contrast enhanced renal angiography at 7.0 Tesla. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 114-26	4.4	50
215	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, 1523-7	4.4	21
214	Processing of natural sounds: characterization of multiplex spectral tuning in human auditory cortex. <i>Journal of Neuroscience</i> , 2013 , 33, 11888-98	6.6	55
213	Spatially constrained hierarchical parcellation of the brain with resting-state fMRI. <i>NeuroImage</i> , 2013 , 76, 313-24	7.9	158
212	Advances in diffusion MRI acquisition and processing in the Human Connectome Project. <i>NeuroImage</i> , 2013 , 80, 125-43	7.9	596
211	Functional connectomics from resting-state fMRI. <i>Trends in Cognitive Sciences</i> , 2013 , 17, 666-82	14	560

210	The WU-Minn Human Connectome Project: an overview. <i>NeuroImage</i> , 2013 , 80, 62-79	7.9	2585
209	RubiX: combining spatial resolutions for Bayesian inference of crossing fibers in diffusion MRI. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 969-82	11.7	29
208	In vivo measurement of CBF using ^{13}C NMR signal of metabolically produced H_2O as a perfusion tracer. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 309-14	4.4	14
207	Evaluation of slice accelerations using multiband echo planar imaging at 3 T. <i>NeuroImage</i> , 2013 , 83, 991-1001	7.9	306
206	Resting-state fMRI in the Human Connectome Project. <i>NeuroImage</i> , 2013 , 80, 144-68	7.9	865
205	Pushing spatial and temporal resolution for functional and diffusion MRI in the Human Connectome Project. <i>NeuroImage</i> , 2013 , 80, 80-104	7.9	534
204	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, 1261-7	4.4	100
203	Simultaneous multislice multiband parallel radiofrequency excitation with independent slice-specific transmit B1 homogenization. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 630-8	4.4	55
202	Magnetic resonance field strength effects on diffusion measures and brain connectivity networks. <i>Brain Connectivity</i> , 2013 , 3, 72-86	2.7	33
201	Spatial organization of frequency preference and selectivity in the human inferior colliculus. <i>Nature Communications</i> , 2013 , 4, 1386	17.4	79
200	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, 1210-9	4.4	45
199	Cortical depth dependent functional responses in humans at 7T: improved specificity with 3D GRASE. <i>PLoS ONE</i> , 2013 , 8, e60514	3.7	119
198	In vivo noninvasive detection of Brown Adipose Tissue through intermolecular zero-quantum MRI. <i>PLoS ONE</i> , 2013 , 8, e74206	3.7	36
197	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	3.7	14
196	Regional neurochemical profiles in the human brain measured by ^1H MRS at 7 T using local B 1 shimming. <i>NMR in Biomedicine</i> , 2012 , 25, 152-60	4.4	86
195	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, 3131-6	11.5	555
194	The road to functional imaging and ultrahigh fields. <i>NeuroImage</i> , 2012 , 62, 726-35	7.9	50
193	Development of functional imaging in the human brain (fMRI); the University of Minnesota experience. <i>NeuroImage</i> , 2012 , 62, 613-9	7.9	15

192	Quantitative imaging of energy expenditure in human brain. <i>NeuroImage</i> , 2012 , 60, 2107-17	7.9	158
191	Spin echo functional MRI in bilateral auditory cortices at 7 T: an application of B ₁ shimming. <i>NeuroImage</i> , 2012 , 63, 1313-20	7.9	19
190	Functional MRI using super-resolved spatiotemporal encoding. <i>Magnetic Resonance Imaging</i> , 2012 , 30, 1401-8	3.3	21
189	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, 2388-401	4.6	21
188	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, 188-97	4.4	28
187	Measurement of Arterial Input Function in Hyperpolarized ¹³ C Studies. <i>Applied Magnetic Resonance</i> , 2012 , 43, 289-297	0.8	8
186	Layer-specific fMRI reflects different neuronal computations at different depths in human V1. <i>PLoS ONE</i> , 2012 , 7, e32536	3.7	141
185	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, 1031-44	7.9	61
184	Functional magnetic resonance imaging using RASER. <i>NeuroImage</i> , 2011 , 54, 350-60	7.9	44
183	Modeling and analysis of mechanisms underlying fMRI-based decoding of information conveyed in cortical columns. <i>NeuroImage</i> , 2011 , 56, 627-42	7.9	49
182	Mapping the organization of axis of motion selective features in human area MT using high-field fMRI. <i>PLoS ONE</i> , 2011 , 6, e28716	3.7	125
181	Synthesis and characterization of a cell-permeable bimodal contrast agent targeting β galactosidase. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 2529-40	3.4	41
180	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	4.4	21
179	Human imaging at 9.4 T using T(2) [*] -, phase-, and susceptibility-weighted contrast. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 544-50	4.4	42
178	CyLoP-1: a novel cysteine-rich cell-penetrating peptide for cytosolic delivery of cargoes. <i>Bioconjugate Chemistry</i> , 2011 , 22, 319-28	6.3	55
177	Hippocampal sclerosis in temporal lobe epilepsy: findings at 7 T. <i>Radiology</i> , 2011 , 261, 199-209	20.5	78
176	Neurochemical changes in the developing rat hippocampus during prolonged hypoglycemia. <i>Journal of Neurochemistry</i> , 2010 , 114, 728-38	6	31
175	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, 449-58	7.3	23

174	Recent Advances in High-Resolution MR Application and Its Implications for Neurovascular Coupling Research. <i>Frontiers in Neuroenergetics</i> , 2010 , 2, 130		20
173	Multiplexed echo planar imaging for sub-second whole brain fMRI and fast diffusion imaging. <i>PLoS ONE</i> , 2010 , 5, e15710	3.7	889
172	Mechanisms underlying decoding at 7 T: ocular dominance columns, broad structures, and macroscopic blood vessels in V1 convey information on the stimulated eye. <i>NeuroImage</i> , 2010 , 49, 1957-64	7.9	86
171	Dynamics of motor-related functional integration during motor sequence learning. <i>NeuroImage</i> , 2010 , 49, 759-66	7.9	104
170	An assessment of current brain targets for deep brain stimulation surgery with susceptibility-weighted imaging at 7 tesla. <i>Neurosurgery</i> , 2010 , 67, 1745-56; discussion 1756	3.2	170
169	Functional MRI mapping neuronal inhibition and excitation at columnar level in human visual cortex. <i>Experimental Brain Research</i> , 2010 , 204, 515-24	2.3	12
168	Retinotopic mapping with spin echo BOLD at 7T. <i>Magnetic Resonance Imaging</i> , 2010 , 28, 1258-69	3.3	41
167	Noninvasive quantification of human brain ascorbate concentration using ¹ H NMR spectroscopy at 7 T. <i>NMR in Biomedicine</i> , 2010 , 23, 227-32	4.4	33
166	Theoretical and experimental evaluation of continuous arterial spin labeling techniques. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 438-46	4.4	20
165	Parallel excitation in the human brain at 9.4 T counteracting k-space errors with RF pulse design. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 524-9	4.4	38
164	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, 1144-53	4.4	954
163	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, 554-66	4.4	270
162	A 32-channel lattice transmission line array for parallel transmit and receive MRI at 7 tesla. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 1478-85	4.4	61
161	Performance of external and internal coil configurations for prostate investigations at 7 T. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 1625-39	4.4	54
160	Whole-body imaging at 7T: preliminary results. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 244-8	4.4	198
159	In vivo ¹ H NMR spectroscopy of the human brain at high magnetic fields: metabolite quantification at 4T vs. 7T. <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 868-79	4.4	268
158	The use of magnetic resonance methods in translational cardiovascular research. <i>Journal of Cardiovascular Translational Research</i> , 2009 , 2, 39-47	3.3	1
157	Cerebral cortical mechanisms of copying geometrical shapes: a multidimensional scaling analysis of fMRI patterns of activation. <i>Experimental Brain Research</i> , 2009 , 194, 369-80	2.3	29

156	Metabolic and hemodynamic events after changes in neuronal activity: current hypotheses, theoretical predictions and in vivo NMR experimental findings. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009 , 29, 441-63	7.3	126
155	New insights into central roles of cerebral oxygen metabolism in the resting and stimulus-evoked brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009 , 29, 10-8	7.3	44
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