Lawrence L Wald

List of Publications by Year
in descending order

329	22,436	8732 75	14702 127
papers	citations	h-index	g-index

354	354	354	17755
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Scout accelerated motion estimation and reduction (SAMER). Magnetic Resonance in Medicine, 2022, 87, 163-178.	1.9	9
2	A Huygensâ€™ surface approach to rapid characterization of peripheral nerve stimulation. Magnetic Resonance in Medicine, 2022, 87, 377-393.	1.9	4
3	External Dynamic InTerference Estimation and Removal (EDITER) for low field MRI. Magnetic Resonance in Medicine, 2022, 87, 614-628.	1.9	23
4	A 31â€channel integrated â€œAC/DCâ€•B₀ shim and radiofrequency receive array coil for improved 7T MRI. Magnetic Resonance in Medicine, 2022, 87, 1074-1092.	1.9	14
5	Comprehensive diffusion MRI dataset for in vivo human brain microstructure mapping using 300 mT/m gradients. Scientific Data, 2022, 9, 7.	2.4	16
6	3D Echo Planar Time-resolved Imaging (3D-EPTI) for ultrafast multi-parametric quantitative MRI. NeuroImage, 2022, 250, 118963.	2.1	22
7	Disruption of Brainstem Structural Connectivity in <scp>REM</scp> Sleep Behavior Disorder Using 7 Tesla <scp>Magnetic Resonance Imaging</scp>. Movement Disorders, 2022, 37, 847-853.	2.2	24
8	<scp>SNR</scp>â€efficient distortionâ€free diffusion relaxometry imaging using accelerated echoâ€train shifted echoâ€planar timeâ€resolving imaging (<scp>ACEâ€EPTI</scp>). Magnetic Resonance in Medicine, 2022, 88, 164-179.	1.9	9
9	An efficient approach to optimal experimental design forÂmagnetic resonance fingerprinting with Bâ€splines. Magnetic Resonance in Medicine, 2022, 88, 239-253.	1.9	12
10	Mapping the human connectome using diffusion MRI at 300 mT/m gradient strength: Methodological advances and scientific impact. NeuroImage, 2022, 254, 118958.	2.1	18
11	In Vivo Absolute Metabolite Quantification Using a Multiplexed <scp>ERETICâ€RX</scp> Array Coil for Wholeâ€Brain <scp>MR</scp> Spectroscopic Imaging. Journal of Magnetic Resonance Imaging, 2022, 56, 121-133.	1.9	2
12	A patientâ€friendly 16â€channel transmit/64â€channel receive coil array for combined headâ€“neck MRI at 7 Tesla. Magnetic Resonance in Medicine, 2022, 88, 1419-1433.	1.9	13
13	Individualized SAR calculations using computer visionâ€based MR segmentation and a fast electromagnetic solver. Magnetic Resonance in Medicine, 2021, 85, 429-443.	1.9	18
14	A portable scanner for magnetic resonance imaging of the brain. Nature Biomedical Engineering, 2021, 5, 229-239.	11.6	103
15	Investigating cardiac stimulation limits of MRI gradient coils using electromagnetic and electrophysiological simulations in human and canine body models. Magnetic Resonance in Medicine, 2021, 85, 1047-1061.	1.9	13
16	Optimization of MRI Gradient Coils With Explicit Peripheral Nerve Stimulation Constraints. IEEE Transactions on Medical Imaging, 2021, 40, 129-142.	5.4	23
17	The Path to Parent-Inclusive Conferences. Journal of the American College of Radiology, 2021, 18, 334-336.	0.9	0
18	Rapid headâ€pose detection for automated slice prescription of fetalâ€brain <scp>MRI</scp>. International Journal of Imaging Systems and Technology, 2021, 31, 1136-1154.	2.7	7

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19	Distortionâ€free, highâ€isotropicâ€resolution diffusion MRI with gSlider BUDAâ€EPI and multicoil dynamic B₀ shimming. Magnetic Resonance in Medicine, 2021, 86, 791-803.	1.9	31
20	In vivo human whole-brain Connectom diffusion MRI dataset at 760â€‰Âµm isotropic resolution. Scientific Data, 2021, 8, 122.	2.4	37
21	A sizeâ€adaptive 32â€channel array coil for awake infant neuroimaging at 3ÂTesla MRI. Magnetic Resonance in Medicine, 2021, 86, 1773-1785.	1.9	11
22	Location of Subcortical Microbleeds and Recovery of Consciousness After Severe Traumatic Brain Injury. Neurology, 2021, 97, e113-e123.	1.5	16
23	Optimized 64â€channel array configurations for accelerated simultaneous multislice acquisitions in 3T cardiac MRI. Magnetic Resonance in Medicine, 2021, 86, 2276-2289.	1.9	7
24	Concept for using magnetic particle imaging for intraoperative margin analysis in breast-conserving surgery. Scientific Reports, 2021, 11, 13456.	1.6	21
25	Low-field portable brain MRI in CNS demyelinating disease. Multiple Sclerosis and Related Disorders, 2021, 51, 102903.	0.9	10
26	Safety and imaging performance of twoâ€channel RF shimming for fetal MRI at 3T. Magnetic Resonance in Medicine, 2021, 86, 2810-2821.	1.9	3
27	Modeling of cardiac stimulation by externally applied electromagnetic fields. , 2021, , .		0
28	A 128-channel head coil array for cortical imaging at 7 Tesla. , 2021, , .		3
29	A 48-channel receive array coil for mesoscopic diffusion-weighted MRI of exÂvivo human brain on the 3 T connectome scanner. NeuroImage, 2021, 238, 118256.	2.1	13
30	Safety and image quality at 7T MRI for deep brain stimulation systems: Ex vivo study with lead-only and full-systems. PLoS ONE, 2021, 16, e0257077.	1.1	27
31	Quantitative T1 and T2 mapping by magnetic resonance fingerprinting (MRF) of the placenta before and after maternal hyperoxia. Placenta, 2021, 114, 124-132.	0.7	4
32	Connectome 2.0: Developing the next-generation ultra-high gradient strength human MRI scanner for bridging studies of the micro-, meso- and macro-connectome. NeuroImage, 2021, 243, 118530.	2.1	58
33	Simultaneous pure T2 and varying T2â€²-weighted BOLD fMRI using Echo Planar Time-resolved Imaging for mapping cortical-depth dependent responses. NeuroImage, 2021, 245, 118641.	2.1	9
34	High-gradient diffusion MRI reveals distinct estimates of axon diameter index within different white matter tracts in the in vivo human brain. Brain Structure and Function, 2020, 225, 1277-1291.	1.2	55
35	Lowâ€cost and portable MRI. Journal of Magnetic Resonance Imaging, 2020, 52, 686-696.	1.9	128
36	Design and implementation of a low-cost, tabletop MRI scanner for education and research prototyping. Journal of Magnetic Resonance, 2020, 310, 106625.	1.2	24

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37	Parallel transmission to reduce absorbed power around deep brain stimulation devices in MRI: Impact of number and arrangement of transmit channels. Magnetic Resonance in Medicine, 2020, 83, 299-311.	1.9	25
38	Highâ€fidelity, highâ€isotropicâ€resolution diffusion imaging through gSlider acquisition with and T 1 corrections and integrated Î" B 0 / Rx shim array. Magnetic Resonance in Medicine, 2020, 83, 56-67.	1.9	31
39	Individual variation in simulated fetal SAR assessed in multiple body models. Magnetic Resonance in Medicine, 2020, 83, 1418-1428.	1.9	12
40	An orthogonal shim coil for 3T brain imaging. Magnetic Resonance in Medicine, 2020, 83, 1499-1511.	1.9	11
41	Optimizing selective stimulation of peripheral nerves with arrays of coils or surface electrodes using a linear peripheral nerve stimulation metric. Journal of Neural Engineering, 2020, 17, 016029.	1.8	14
42	A 16-channel AC/DC array coil for anesthetized monkey whole-brain imaging at 7T. NeuroImage, 2020, 207, 116396.	2.1	26
43	Axon diameter index estimation independent of fiber orientation distribution using high-gradient diffusion MRI. NeuroImage, 2020, 222, 117197.	2.1	49
44	An integrated RF-receive/B0-shim array coil boosts performance of whole-brain MR spectroscopic imaging at 7ÂT. Scientific Reports, 2020, 10, 15029.	1.6	12
45	Further Development of Subspace Imaging to Magnetic Resonance Fingerprinting: A Low-rank Tensor Approach. , 2020, 2020, 1662-1666.		3
46	Evaluation of RF interactions between a 3T birdcage transmit coil and transcranial magnetic stimulation coils using a realistically shaped head phantom. Magnetic Resonance in Medicine, 2020, 84, 1061-1075.	1.9	11
47	Placental MRI: Effect of maternal position and uterine contractions on placental BOLD MRI measurements. Placenta, 2020, 95, 69-77.	0.7	27
48	Changes in the specific absorption rate (SAR) of radiofrequency energy in patients with retained cardiac leads during MRI at 1.5T and 3T. Magnetic Resonance in Medicine, 2019, 81, 653-669.	1.9	42
49	Prediction of peripheral nerve stimulation thresholds of MRI gradient coils using coupled electromagnetic and neurodynamic simulations. Magnetic Resonance in Medicine, 2019, 81, 686-701.	1.9	51
50	Computer-Vision Techniques for Water-Fat Separation in Ultra High-Field MRI Local Specific Absorption Rate Estimation. IEEE Transactions on Biomedical Engineering, 2019, 66, 768-774.	2.5	3
51	Reconfigurable MRI coil technology can substantially reduce RF heating of deep brain stimulation implants: First in-vitro study of RF heating reduction in bilateral DBS leads at 1.5 T. PLoS ONE, 2019, 14, e0220043.	1.1	43
52	Ultimate MRI. Journal of Magnetic Resonance, 2019, 306, 139-144.	1.2	19
53	7 Tesla MRI of the ex vivo human brain at 100 micron resolution. Scientific Data, 2019, 6, 244.	2.4	179
54	In vivo Probabilistic Structural Atlas of the Inferior and Superior Colliculi, Medial and Lateral Geniculate Nuclei and Superior Olivary Complex in Humans Based on 7 Tesla MRI. Frontiers in Neuroscience, 2019, 13, 764.	1.4	31

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55	Intracortical smoothing of small-voxel fMRI data can provide increased detection power without spatial resolution losses compared to conventional large-voxel fMRI data. NeuroImage, 2019, 189, 601-614.	2.1	41
56	Echo planar timeâ€resolved imaging (EPTI). Magnetic Resonance in Medicine, 2019, 81, 3599-3615.	1.9	75
57	The MR Cap: A singleâ€sided MRI system designed for potential pointâ€ofâ€care limited fieldâ€ofâ€view brain imaging. Magnetic Resonance in Medicine, 2019, 82, 1946-1960.	1.9	52
58	Corpus callosum axon diameter relates to cognitive impairment in multiple sclerosis. Annals of Clinical and Translational Neurology, 2019, 6, 882-892.	1.7	38
59	Functional Involvement of Human Periaqueductal Gray and Other Midbrain Nuclei in Cognitive Control. Journal of Neuroscience, 2019, 39, 6180-6189.	1.7	23
60	Highly accelerated multishot echo planar imaging through synergistic machine learning and joint reconstruction. Magnetic Resonance in Medicine, 2019, 82, 1343-1358.	1.9	40
61	Representational similarity precedes category selectivity in the developing ventral visual pathway. NeuroImage, 2019, 197, 565-574.	2.1	29
62	Reconfigurable MRI technology for low-SAR imaging of deep brain stimulation at 3T: Application in bilateral leads, fully-implanted systems, and surgically modified lead trajectories. NeuroImage, 2019, 199, 18-29.	2.1	51
63	Network Accelerated Motion Estimation and Reduction (NAMER): Convolutional neural network guided retrospective motion correction using a separable motion model. Magnetic Resonance in Medicine, 2019, 82, 1452-1461.	1.9	67
64	Dependence of resting-state fMRI fluctuation amplitudes on cerebral cortical orientation relative to the direction of B0 and anatomical axes. NeuroImage, 2019, 196, 337-350.	2.1	29
65	Phase-matched virtual coil reconstruction for highly accelerated diffusion echo-planar imaging. NeuroImage, 2019, 194, 291-302.	2.1	19
66	Comparison between 8â€and 32â€channel phasedâ€array receive coils for in vivo hyperpolarized ¹³C imaging of the human brain. Magnetic Resonance in Medicine, 2019, 82, 833-841.	1.9	28
67	Highlyâ€accelerated volumetric brain examination using optimized waveâ€CAIPI encoding. Journal of Magnetic Resonance Imaging, 2019, 50, 961-974.	1.9	44
68	Age-related alterations in axonal microstructure in the corpus callosum measured by high-gradient diffusion MRI. NeuroImage, 2019, 191, 325-336.	2.1	55
69	Imaging G-Ratio in Multiple Sclerosis Using High-Gradient Diffusion MRI and Macromolecular Tissue Volume. American Journal of Neuroradiology, 2019, 40, 1871-1877.	1.2	30
70	Placental MRI. Topics in Magnetic Resonance Imaging, 2019, 28, 285-297.	0.7	23
71	Tiltedâ€CAIPI for highly accelerated distortionâ€free EPI with point spread function (PSF) encoding. Magnetic Resonance in Medicine, 2019, 81, 377-392.	1.9	37
72	Sensitivity analysis of neurodynamic and electromagnetic simulation parameters for robust prediction of peripheral nerve stimulation. Physics in Medicine and Biology, 2019, 64, 015005.	1.6	9

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73	Reducing RF-Induced Heating Near Implanted Leads Through High-Dielectric Capacitive Bleeding of Current (CBLOC). IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 1265-1273.	2.9	46
74	Hyperpolarized 13C MRI: Path to Clinical Translation in Oncology. Neoplasia, 2019, 21, 1-16.	2.3	316
75	The â€˜virtual DBS populationâ€™: five realistic computational models of deep brain stimulation patients for electromagnetic MR safety studies. Physics in Medicine and Biology, 2019, 64, 035021.	1.6	11
76	Optimal Experiment Design for Magnetic Resonance Fingerprinting: CramÃ©r-Rao Bound Meets Spin Dynamics. IEEE Transactions on Medical Imaging, 2019, 38, 844-861.	5.4	89
77	RF-induced heating in tissue near bilateral DBS implants during MRI at 1.5â€T and 3T: The role of surgical lead management. NeuroImage, 2019, 184, 566-576.	2.1	92
78	Oxytocin attenuates trust as a subset of more general reinforcement learning, with altered reward circuit functional connectivity in males. NeuroImage, 2018, 174, 35-43.	2.1	25
79	Motionâ€robust subâ€millimeter isotropic diffusion imaging through motion corrected generalized slice dithered enhanced resolution (MCâ€gSlider) acquisition. Magnetic Resonance in Medicine, 2018, 80, 1891-1906.	1.9	28
80	Realistic modeling of deep brain stimulation implants for electromagnetic MRI safety studies. Physics in Medicine and Biology, 2018, 63, 095015.	1.6	27
81	Validation of diffusion MRI estimates of compartment size and volume fraction in a biomimetic brain phantom using a human MRI scanner with 300â€mT/m maximum gradient strength. NeuroImage, 2018, 182, 469-478.	2.1	39
82	Multimodal Characterization of the Late Effects of Traumatic Brain Injury: A Methodological Overview of the Late Effects of Traumatic Brain Injury Project. Journal of Neurotrauma, 2018, 35, 1604-1619.	1.7	32
83	Improving parallel imaging by jointly reconstructing multiâ€contrast data. Magnetic Resonance in Medicine, 2018, 80, 619-632.	1.9	62
84	TArgeted Motion Estimation and Reduction (TAMER): Data Consistency Based Motion Mitigation for MRI Using a Reduced Model Joint Optimization. IEEE Transactions on Medical Imaging, 2018, 37, 1253-1265.	5.4	44
85	Computation of ultimate SAR amplification factors for radiofrequency hyperthermia in non-uniform body models: impact of frequency and tumour location. International Journal of Hyperthermia, 2018, 34, 87-100.	1.1	22
86	Improved magnetic resonance fingerprinting reconstruction with lowâ€rank and subspace modeling. Magnetic Resonance in Medicine, 2018, 79, 933-942.	1.9	113
87	A probabilistic template of human mesopontine tegmental nuclei from in vivo 7 T MRI. NeuroImage, 2018, 170, 222-230.	2.1	45
88	Waveâ€CAIPI for highly accelerated MPâ€RAGE imaging. Magnetic Resonance in Medicine, 2018, 79, 401-406.	1.9	53
89	Highâ€resolution in vivo diffusion imaging of the human brain with generalized slice dithered enhanced resolution: Simultaneous multislice (g<scp>S</scp>liderâ€<scp>SMS</scp>). Magnetic Resonance in Medicine, 2018, 79, 141-151.	1.9	134
90	In vivo B 0 field shimming methods for MRI at 7 T. NeuroImage, 2018, 168, 71-87.	2.1	105

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91	Design of Sparse Halbach Magnet Arrays for Portable MRI Using a Genetic Algorithm. IEEE Transactions on Magnetics, 2018, 54, 1-12.	1.2	85
92	Pushing the spatio-temporal limits of MRI and fMRI. NeuroImage, 2018, 164, 1-3.	2.1	20
93	Simulations of a birdcage coil B<inf>1</inf>+ field on a human body model for designing a 3T multichannel TMS/MRI head coil array. , 2018, 2018, 4752-4755.		4
94	Magnetic Resonance Imaging technology â€" bridging the gap between noninvasive human imaging and optical microscopy. Current Opinion in Neurobiology, 2018, 50, 250-260.	2.0	18
95	Rodent Cerebral Blood Volume (CBV) changes during hypercapnia observed using Magnetic Particle Imaging (MPI) detection. NeuroImage, 2018, 178, 713-720.	2.1	39
96	A comprehensive diffusion MRI dataset acquired on the MGH Connectome scanner in a biomimetic brain phantom. Data in Brief, 2018, 18, 334-339.	0.5	3
97	Comparison of new element designs for combined <scp>RF</scp>â€shim arrays at 7 T. Concepts in Magnetic Resonance Part B, 2018, 48B, .	0.3	1
98	Feasibility of using linearly polarized rotating birdcage transmitters and close-fitting receive arrays in MRI to reduce SAR in the vicinity of deep brain simulation implants. Magnetic Resonance in Medicine, 2017, 77, 1701-1712.	1.9	70
99	Singleâ€step quantitative susceptibility mapping with variational penalties. NMR in Biomedicine, 2017, 30, e3570.	1.6	50
100	Simultaneous multislice magnetic resonance fingerprinting (SMSâ€MRF) with directâ€spiral sliceâ€GRAPPA (dsâ€SG) reconstruction. Magnetic Resonance in Medicine, 2017, 77, 1966-1974.	1.9	35
101	Organization of high-level visual cortex in human infants. Nature Communications, 2017, 8, 13995.	5.8	224
102	HIgh b-value and high Resolution Integrated Diffusion (HIBRID) imaging. NeuroImage, 2017, 150, 162-176.	2.1	24
103	Simultaneous Time Interleaved MultiSlice (STIMS) for Rapid Susceptibility Weighted acquisition. NeuroImage, 2017, 155, 577-586.	2.1	21
104	Improved 7 Tesla resting-state fMRI connectivity measurements by cluster-based modeling of respiratory volume and heart rate effects. NeuroImage, 2017, 153, 262-272.	2.1	14
105	The ultimate signalâ€toâ€noise ratio in realistic body models. Magnetic Resonance in Medicine, 2017, 78, 1969-1980.	1.9	61
106	Diffusion MRI microstructure models with in vivo human brain Connectome data: results from a multiâ€group comparison. NMR in Biomedicine, 2017, 30, e3734.	1.6	33
107	Reduction of across-run variability of temporal SNR in accelerated EPI time-series data through FLEET-based robust autocalibration. NeuroImage, 2017, 152, 348-359.	2.1	10
108	Use of pattern recognition for unaliasing simultaneously acquired slices in simultaneous multislice MR fingerprinting. Magnetic Resonance in Medicine, 2017, 78, 1870-1876.	1.9	25

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109	Impacting the effect of fMRI noise through hardware and acquisition choices â€“ Implications for controlling false positive rates. NeuroImage, 2017, 154, 15-22.	2.1	38
110	Construction and modeling of a reconfigurable MRI coil for lowering SAR in patients with deep brain stimulation implants. NeuroImage, 2017, 147, 577-588.	2.1	58
111	3D MR fingerprinting with accelerated stack-of-spirals and hybrid sliding-window and GRAPPA reconstruction. NeuroImage, 2017, 162, 13-22.	2.1	87
112	Predicting Magnetostimulation Thresholds in the Peripheral Nervous System using Realistic Body Models. Scientific Reports, 2017, 7, 5316.	1.6	45
113	Local <scp>SAR</scp> near deep brain stimulation (<scp>DBS</scp>) electrodes at 64 and 127 <scp>MH</scp>z: A simulation study of the effect of extracranial loops. Magnetic Resonance in Medicine, 2017, 78, 1558-1565.	1.9	81
114	Autocalibrated waveâ€‹<scp>CAIPI</scp> reconstruction; Joint optimization of kâ€‹space trajectory and parallel imaging reconstruction. Magnetic Resonance in Medicine, 2017, 78, 1093-1099.	1.9	47
115	g-Ratio weighted imaging of the human spinal cord in vivo. NeuroImage, 2017, 145, 11-23.	2.1	66
116	Simultaneous multislice magnetic resonance fingerprinting with low-rank and subspace modeling. , 2017, 2017, 3264-3268.		6
117	Design analysis of an MPI human functional brain scanner. International Journal on Magnetic Particle Imaging, 2017, 3, .	1.0	29
118	Signal Fluctuation Sensitivity: An Improved Metric for Optimizing Detection of Resting-State fMRI Networks. Frontiers in Neuroscience, 2016, 10, 180.	1.4	22
119	Accelerating magnetic resonance fingerprinting (MRF) using t-blipped simultaneous multislice (SMS) acquisition. Magnetic Resonance in Medicine, 2016, 75, 2078-2085.	1.9	54
120	General design approach and practical realization of decoupling matrices for parallel transmission coils. Magnetic Resonance in Medicine, 2016, 76, 329-339.	1.9	8
121	Fast threeâ€‹dimensional inner volume excitations using parallel transmission and optimized kâ€‹space trajectories. Magnetic Resonance in Medicine, 2016, 76, 1170-1182.	1.9	16
122	Coilâ€‹toâ€‹coil physiological noise correlations and their impact on functional MRI timeâ€‹series signalâ€‹toâ€‹noise ratio. Magnetic Resonance in Medicine, 2016, 76, 1708-1719.	1.9	21
123	Multiâ€‹atlas and label fusion approach for patientâ€‹specific MRI based skull estimation. Magnetic Resonance in Medicine, 2016, 75, 1797-1807.	1.9	21
124	Robust time-shifted spoke pulse design in the presence of large B0 variations with simultaneous reduction of through-plane dephasing, B1+ effects, and the specific absorption rate using parallel transmission. Magnetic Resonance in Medicine, 2016, 76, 540-554.	1.9	20
125	Parallel transmission pulse design with explicit control for the specific absorption rate in the presence of radiofrequency errors. Magnetic Resonance in Medicine, 2016, 75, 2493-2504.	1.9	9
126	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.	1.1	66

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127	The pulsatility volume index: an indicator of cerebrovascular compliance based on fast magnetic resonance imaging of cardiac and respiratory pulsatility. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150184.	1.6	17
128	Globally conditioned Granger causality in brainâ€“brain and brainâ€“heart interactions: a combined heart rate variability/ultra-high-field (7 T) functional magnetic resonance imaging study. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150185.	1.6	42
129	Neuroimaging brainstem circuitry supporting cardiovagal response to pain: a combined heart rate variability/ultrahigh-field (7 T) functional magnetic resonance imaging study. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150189.	1.6	39
130	In vivo functional connectome of human brainstem nuclei of the ascending arousal, autonomic, and motor systems by high spatial resolution 7-Tesla fMRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 451-462.	1.1	59
131	Transmit Array Spatial Encoding (TRASE) using broadband WURST pulses for RF spatial encoding in inhomogeneous B0 fields. Journal of Magnetic Resonance, 2016, 268, 36-48.	1.2	24
132	Efficacy and Safety of Pedunculopontine Nuclei (PPN) Deep Brain Stimulation in the Treatment of Gait Disorders: A Meta-Analysis of Clinical Studies. Canadian Journal of Neurological Sciences, 2016, 43, 120-126.	0.3	32
133	Selective magnetic resonance imaging of magnetic nanoparticles by acoustically induced rotary saturation. Magnetic Resonance in Medicine, 2016, 75, 97-106.	1.9	7
134	A 32â€channel combined RF and B₀ shim array for 3T brain imaging. Magnetic Resonance in Medicine, 2016, 75, 441-451.	1.9	106
135	Reducing sensitivity losses due to respiration and motion in accelerated echo planar imaging by reordering the autocalibration data acquisition. Magnetic Resonance in Medicine, 2016, 75, 665-679.	1.9	113
136	Dense, shapeâ€optimized posterior 32â€channel coil for submillimeter functional imaging of visual cortex at 3T. Magnetic Resonance in Medicine, 2016, 76, 321-328.	1.9	10
137	Physiological noise model comparison for resting-state fMRI at 7 T. , 2016, , .		1
138	Optimal experiment design for magnetic resonance fingerprinting. , 2016, 2016, 453-456.		21
139	Automatic cortical surface reconstruction of high-resolution T1 echo planar imaging data. NeuroImage, 2016, 134, 338-354.	2.1	57
140	Fast Electromagnetic Analysis of MRI Transmit RF Coils Based on Accelerated Integral Equation Methods. IEEE Transactions on Biomedical Engineering, 2016, 63, 2250-2261.	2.5	34
141	Maximum Likelihood Reconstruction for Magnetic Resonance Fingerprinting. IEEE Transactions on Medical Imaging, 2016, 35, 1812-1823.	5.4	99
142	Characterization of Axonal Disease in Patients with Multiple Sclerosis Using High-Gradient-Diffusion MR Imaging. Radiology, 2016, 280, 244-251.	3.6	37
143	Variability and anatomical specificity of the orbitofrontothalamic fibers of passage in the ventral capsule/ventral striatum (VC/VS): precision care for patient-specific tractography-guided targeting of deep brain stimulation (DBS) in obsessive compulsive disorder (OCD). Brain Imaging and Behavior, 2016, 10, 1054-1067.	1.1	115
144	MGHâ€“USC Human Connectome Project datasets with ultra-high b-value diffusion MRI. NeuroImage, 2016, 124, 1108-1114.	2.1	209

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145	Rapid multi-orientation quantitative susceptibility mapping. NeuroImage, 2016, 125, 1131-1141.	2.1	52
146	Category-sensitive visual regions in human infants. Journal of Vision, 2016, 16, 204.	0.1	1
147	Brain Genomics Superstruct Project initial data release with structural, functional, and behavioral measures. Scientific Data, 2015, 2, 150031.	2.4	318
148	Design of parallel transmission pulses for simultaneous multislice with explicit control for peak power and local specific absorption rate. Magnetic Resonance in Medicine, 2015, 73, 1946-1953.	1.9	51
149	A 31â€channel MR brain array coil compatible with positron emission tomography. Magnetic Resonance in Medicine, 2015, 73, 2363-2375.	1.9	38
150	Waveâ€CAIPI for highly accelerated 3D imaging. Magnetic Resonance in Medicine, 2015, 73, 2152-2162.	1.9	180
151	Globally conditioned causality in estimating directed brain-heart interactions through joint MRI and RR series analysis. , 2015, 2015, 3795-8.		0
152	Fast group matching for MR fingerprinting reconstruction. Magnetic Resonance in Medicine, 2015, 74, 523-528.	1.9	87
153	Comparison of simulated parallel transmit body arrays at 3 T using excitation uniformity, global SAR, local SAR, and power efficiency metrics. Magnetic Resonance in Medicine, 2015, 73, 1137-1150.	1.9	57
154	RARE/turbo spin echo imaging with simultaneous multislice Wave-CAIPI. Magnetic Resonance in Medicine, 2015, 73, 929-938.	1.9	68
155	In vivo mapping of human spinal cord microstructure at 300 mT/m. NeuroImage, 2015, 118, 494-507.	2.1	69
156	Real diffusion-weighted MRI enabling true signal averaging and increased diffusion contrast. NeuroImage, 2015, 122, 373-384.	2.1	88
157	Toward an In Vivo Neuroimaging Template of Human Brainstem Nuclei of the Ascending Arousal, Autonomic, and Motor Systems. Brain Connectivity, 2015, 5, 597-607.	0.8	68
158	A computational atlas of the hippocampal formation using ex vivo, ultra-high resolution MRI: Application to adaptive segmentation of in vivo MRI. NeuroImage, 2015, 115, 117-137.	2.1	939
159	The impact of gradient strength on in vivo diffusion MRI estimates of axon diameter. NeuroImage, 2015, 106, 464-472.	2.1	95
160	White matter compartment models for in vivo diffusion MRI at 300 mT/m. NeuroImage, 2015, 118, 468-483.	2.1	53
161	Parallel transmit pulse design for patients with deep brain stimulation implants. Magnetic Resonance in Medicine, 2015, 73, 1896-1903.	1.9	56
162	An anatomically realistic temperature phantom for radiofrequency heating measurements. Magnetic Resonance in Medicine, 2015, 73, 442-450.	1.9	40

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163	Twoâ€dimensional imaging in a lightweight portable MRI scanner without gradient coils. Magnetic Resonance in Medicine, 2015, 73, 872-883.	1.9	125
164	Fast reconstruction for multichannel compressed sensing using a hierarchically semiseparable solver. Magnetic Resonance in Medicine, 2015, 73, 1034-1040.	1.9	14
165	SAR reduction in 7T Câ€spine imaging using a â€œdark modesâ€•transmit array strategy. Magnetic Resonance in Medicine, 2015, 73, 1533-1539.	1.9	26
166	Field Strength Dependence of Contrast and Noise in fMRI. Biological Magnetic Resonance, 2015, , 793-818.	0.4	3
167	Techniques for Brain Functional Connectivity Analysis from High Resolution Imaging. Studies in Computational Intelligence, 2015, , 131-138.	0.7	0
168	Array Coils. , 2014, , 59-67.		7
169	A study-specific fMRI normalization approach that operates directly on high resolution functional EPI data at 7Tesla. NeuroImage, 2014, 100, 710-714.	2.1	18
170	Wave-CAIPI enables highly accelerated 3D MRI. , 2014, , .		1
171	Rapid high spatial resolution diffusion MRI at 7 Tesla using simultaneous multislice acquisition. , 2014, , .		0
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