Lawrence L Wald

List of Publications by Year
in descending order

330	22,436	8755 75	14759 127
papers	citations	h-index	g-index

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

#	Article	IF	Citations
1	Blippedâ€controlled aliasing in parallel imaging for simultaneous multislice echo planar imaging with reduced gâ€factor penalty. Magnetic Resonance in Medicine, 2012, 67, 1210-1224.	3.0	1,144
2	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.	4.2	939
3	Comparison of physiological noise at 1.5 T, 3 T and 7 T and optimization of fMRI acquisition parameters. NeuroImage, 2005, 26, 243-250.	4.2	598
4	Pushing the limits of in vivo diffusion MRI for the Human Connectome Project. NeuroImage, 2013, 80, 220-233.	4.2	460
5	Automated segmentation of hippocampal subfields from ultraâ€high resolution in vivo MRI. Hippocampus, 2009, 19, 549-557.	1.9	381
6	Laminar analysis of 7T BOLD using an imposed spatial activation pattern in human V1. NeuroImage, 2010, 52, 1334-1346.	4.2	378
7	32-channel 3 Tesla receive-only phased-array head coil with soccer-ball element geometry. Magnetic Resonance in Medicine, 2006, 56, 216-223.	3.0	347
8	Visual word processing and experiential origins of functional selectivity in human extrastriate cortex. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9087-9092.	7.1	325
9	Brain Genomics Superstruct Project initial data release with structural, functional, and behavioral measures. Scientific Data, 2015, 2, 150031.	5.3	318
10	Hyperpolarized 13C MRI: Path to Clinical Translation in Oncology. Neoplasia, 2019, 21, 1-16.	5.3	316
11	Stereopsis Activates V3A and Caudal Intraparietal Areas in Macaques and Humans. Neuron, 2003, 39, 555-568.	8.1	309
12	The Human Connectome Project and beyond: Initial applications of 300mT/m gradients. NeuroImage, 2013, 80, 234-245.	4.2	309
13	Improving diffusion MRI using simultaneous multi-slice echo planar imaging. NeuroImage, 2012, 63, 569-580.	4.2	303
14	Three dimensional echo-planar imaging at 7 Tesla. NeuroImage, 2010, 51, 261-266.	4.2	266
15	Repeated fMRI Using Iron Oxide Contrast Agent in Awake, Behaving Macaques at 3 Tesla. NeuroImage, 2002, 16, 283-294.	4.2	250
16	Theory and application of array coils in MR spectroscopy. , 1997, 10, 394-410.		247
17	96â€Channel receiveâ€only head coil for 3 Tesla: Design optimization and evaluation. Magnetic Resonance in Medicine, 2009, 62, 754-762.	3.0	237
18	Parallel imaging reconstruction using automatic regularization. Magnetic Resonance in Medicine, 2004, 51, 559-567.	3.0	232

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19	Interslice leakage artifact reduction technique for simultaneous multislice acquisitions. Magnetic Resonance in Medicine, 2014, 72, 93-102.	3.0	229
20	Organization of high-level visual cortex in human infants. Nature Communications, 2017, 8, 13995.	12.8	224
21	Accurate prediction of V1 location from cortical folds in a surface coordinate system. NeuroImage, 2008, 39, 1585-1599.	4.2	221
22	3T phased array MRI improves the presurgical evaluation in focal epilepsies: A prospective study. Neurology, 2005, 65, 1026-1031.	1.1	217
23	MGHâ€“USC Human Connectome Project datasets with ultra-high b-value diffusion MRI. NeuroImage, 2016, 124, 1108-1114.	4.2	209
24	A 64â€channel 3T array coil for accelerated brain MRI. Magnetic Resonance in Medicine, 2013, 70, 248-258.	3.0	202
25	Optogenetically Induced Behavioral and Functional Network Changes in Primates. Current Biology, 2012, 22, 1722-1726.	3.9	196
26	Magnitude least squares optimization for parallel radio frequency excitation design demonstrated at 7 Tesla with eight channels. Magnetic Resonance in Medicine, 2008, 59, 908-915.	3.0	181
27	Waveâ€CAIPI for highly accelerated 3D imaging. Magnetic Resonance in Medicine, 2015, 73, 2152-2162.	3.0	180
28	7 Tesla MRI of the ex vivo human brain at 100 micron resolution. Scientific Data, 2019, 6, 244.	5.3	179
29	Effects of image reconstruction on fiber orientation mapping from multichannel diffusion MRI: Reducing the noise floor using SENSE. Magnetic Resonance in Medicine, 2013, 70, 1682-1689.	3.0	169
30	Physiological noise and signal-to-noise ratio in fMRI with multi-channel array coils. NeuroImage, 2011, 55, 597-606.	4.2	167
31	Visual Field Map Clusters in Macaque Extrastriate Visual Cortex. Journal of Neuroscience, 2009, 29, 7031-7039.	3.6	158
32	Serial proton magnetic resonance spectroscopy imaging of glioblastoma multiforme after brachytherapy. Journal of Neurosurgery, 1997, 87, 525-534.	1.6	155
33	Parallel RF transmission with eight channels at 3 Tesla. Magnetic Resonance in Medicine, 2006, 56, 1163-1171.	3.0	148
34	Massively parallel MRI detector arrays. Journal of Magnetic Resonance, 2013, 229, 75-89.	2.1	143
35	A 128-channel receive-only cardiac coil for highly accelerated cardiac MRI at 3 Tesla. Magnetic Resonance in Medicine, 2008, 59, 1431-1439.	3.0	142
36	Sliceâ€selective RF pulses for in vivo B inhomogeneity mitigation at 7 tesla using parallel RF excitation with a 16â€element coil. Magnetic Resonance in Medicine, 2008, 60, 1422-1432.	3.0	140

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37	Multislice perfusion and perfusion territory imaging in humans with separate label and image coils. Magnetic Resonance in Medicine, 1999, 41, 1093-1098.	3.0	135
38	Surface based analysis of diffusion orientation for identifying architectonic domains in the in vivo human cortex. NeuroImage, 2013, 69, 87-100.	4.2	134
39	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.	3.0	134
40	T2* mapping and B0 orientation-dependence at 7T reveal cyto- and myeloarchitecture organization of the human cortex. NeuroImage, 2012, 60, 1006-1014.	4.2	133
41	Lowâ€cost and portable MRI. Journal of Magnetic Resonance Imaging, 2020, 52, 686-696.	3.4	128
42	Phased array detectors and an automated intensity-correction algorithm for high-resolution MR imaging of the human brain. Magnetic Resonance in Medicine, 1995, 34, 433-439.	3.0	126
43	Effect of spatial smoothing on physiological noise in high-resolution fMRI. NeuroImage, 2006, 32, 551-557.	4.2	125
44	Identification of discrete functional subregions of the human periaqueductal gray. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17101-17106.	7.1	125
45	Fast image reconstruction with L2â€regularization. Journal of Magnetic Resonance Imaging, 2014, 40, 181-191.	3.4	125
46	Twoâ€dimensional imaging in a lightweight portable MRI scanner without gradient coils. Magnetic Resonance in Medicine, 2015, 73, 872-883.	3.0	125
47	Sizeâ€optimized 32â€channel brain arrays for 3 T pediatric imaging. Magnetic Resonance in Medicine, 2011, 66, 1777-1787.	3.0	118
48	Signal-to-noise ratio and spectral linewidth improvements between 1.5 and 7 Tesla in proton echo-planar spectroscopic imaging. Magnetic Resonance in Medicine, 2006, 56, 1200-1210.	3.0	115
49	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.	2.1	115
50	In vivo detection of GABA in human brain using a localized double-quantum filter technique. Magnetic Resonance in Medicine, 1997, 37, 366-371.	3.0	113
51	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.	3.0	113
52	Improved magnetic resonance fingerprinting reconstruction with lowâ€rank and subspace modeling. Magnetic Resonance in Medicine, 2018, 79, 933-942.	3.0	113
53	Detection of entorhinal layer II using Tesla magnetic resonance imaging. Annals of Neurology, 2005, 57, 489-494.	5.3	110
54	Fast quantitative susceptibility mapping with L1â€regularization and automatic parameter selection. Magnetic Resonance in Medicine, 2014, 72, 1444-1459.	3.0	110

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55	A 32â€channel combined RF and B₀ shim array for 3T brain imaging. Magnetic Resonance in Medicine, 2016, 75, 441-451.	3.0	106
56	Frontal connections and cognitive changes in normal aging rhesus monkeys: A DTI study. Neurobiology of Aging, 2007, 28, 1556-1567.	3.1	105
57	In vivo B 0 field shimming methods for MRI at 7 T. NeuroImage, 2018, 168, 71-87.	4.2	105
58	Modulation of brain and serum glutamatergic concentrations following a switch from conventional neuroleptics to olanzapine. Biological Psychiatry, 2002, 51, 493-497.	1.3	104
59	A portable scanner for magnetic resonance imaging of the brain. Nature Biomedical Engineering, 2021, 5, 229-239.	22.5	103
60	Maximum Likelihood Reconstruction for Magnetic Resonance Fingerprinting. IEEE Transactions on Medical Imaging, 2016, 35, 1812-1823.	8.9	99
61	In vivo tracing of major rat brain pathways using manganese-enhanced magnetic resonance imaging and three-dimensional digital atlasing. NeuroImage, 2003, 20, 1591-1600.	4.2	98
62	Three-dimensional magnetic resonance spectroscopic imaging of histologically confirmed brain tumors. Magnetic Resonance Imaging, 2001, 19, 89-101.	1.8	95
63	The impact of gradient strength on in vivo diffusion MRI estimates of axon diameter. NeuroImage, 2015, 106, 464-472.	4.2	95
64	Predicting the location of entorhinal cortex from MRI. NeuroImage, 2009, 47, 8-17.	4.2	94
65	Dynamic magnetic resonance inverse imaging of human brain function. Magnetic Resonance in Medicine, 2006, 56, 787-802.	3.0	93
66	Dissociation of neural regions associated with anticipatory versus consummatory phases of incentive processing. Psychophysiology, 2008, 45, 36-49.	2.4	92
67	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.	4.2	92
68	Optimal Experiment Design for Magnetic Resonance Fingerprinting: CramÃ©r-Rao Bound Meets Spin Dynamics. IEEE Transactions on Medical Imaging, 2019, 38, 844-861.	8.9	89
69	Eight-channel phased array coil and detunable TEM volume coil for 7 T brain imaging. Magnetic Resonance in Medicine, 2005, 54, 235-240.	3.0	88
70	Real diffusion-weighted MRI enabling true signal averaging and increased diffusion contrast. NeuroImage, 2015, 122, 373-384.	4.2	88
71	Fast group matching for MR fingerprinting reconstruction. Magnetic Resonance in Medicine, 2015, 74, 523-528.	3.0	87
72	3D MR fingerprinting with accelerated stack-of-spirals and hybrid sliding-window and GRAPPA reconstruction. NeuroImage, 2017, 162, 13-22.	4.2	87

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73	Quantitative comparison of cortical surface reconstructions from MP2RAGE and multi-echo MPRAGE data at 3 and 7T. NeuroImage, 2014, 90, 60-73.	4.2	85
74	Design of Sparse Halbach Magnet Arrays for Portable MRI Using a Genetic Algorithm. IEEE Transactions on Magnetics, 2018, 54, 1-12.	2.1	85
75	Proton spectroscopic imaging of the human brain using phased array detectors. Magnetic Resonance in Medicine, 1995, 34, 440-445.	3.0	84
76	Local specific absorption rate (SAR), global SAR, transmitter power, and excitation accuracy tradeâ€offs in low flipâ€angle parallel transmit pulse design. Magnetic Resonance in Medicine, 2014, 71, 1446-1457.	3.0	84
77	High spatial resolution1H-MRSI and segmented MRI of cortical gray matter and subcortical white matter in three regions of the human brain. Magnetic Resonance in Medicine, 1999, 41, 21-29.	3.0	82
78	Predicting the location of human perirhinal cortex, Brodmann's area 35, from MRI. NeuroImage, 2013, 64, 32-42.	4.2	81
79	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.	3.0	81
80	Volume MRI and MRSI techniques for the quantitation of treatment response in brain tumors: Presentation of a detailed case study. Journal of Magnetic Resonance Imaging, 1997, 7, 1146-1152.	3.4	80
81	Direct parallel image reconstructions for spiral trajectories using GRAPPA. Magnetic Resonance in Medicine, 2006, 56, 317-326.	3.0	80
82	Sensitivity-encoded (SENSE) proton echo-planar spectroscopic imaging (PEPSI) in the human brain. Magnetic Resonance in Medicine, 2007, 57, 249-257.	3.0	78
83	Echo planar timeâ€resolved imaging (EPTI). Magnetic Resonance in Medicine, 2019, 81, 3599-3615.	3.0	75
84	The Challenge of Connecting the Dots in the B.R.A.I.N.. Neuron, 2013, 80, 270-274.	8.1	73
85	Local SAR in parallel transmission pulse design. Magnetic Resonance in Medicine, 2012, 67, 1566-1578.	3.0	71
86	Accelerated volumetric MRI with a SENSE/GRAPPA combination. Journal of Magnetic Resonance Imaging, 2006, 24, 444-450.	3.4	70
87	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.	3.0	70
88	In vivo mapping of human spinal cord microstructure at 300 mT/m. NeuroImage, 2015, 118, 494-507.	4.2	69
89	A wavelet-based approximation of surface coil sensitivity profiles for correction of image intensity inhomogeneity and parallel imaging reconstruction. Human Brain Mapping, 2003, 19, 96-111.	3.6	68
90	Fast sliceâ€selective radioâ€frequency excitation pulses for mitigating B inhomogeneity in the human brain at 7 Tesla. Magnetic Resonance in Medicine, 2008, 59, 1355-1364.	3.0	68

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91	RARE/turbo spin echo imaging with simultaneous multislice Wave-CAIPI. Magnetic Resonance in Medicine, 2015, 73, 929-938.	3.0	68
92	Toward an In Vivo Neuroimaging Template of Human Brainstem Nuclei of the Ascending Arousal, Autonomic, and Motor Systems. Brain Connectivity, 2015, 5, 597-607.	1.7	68
93	Specific absorption rate studies of the parallel transmission of innerâ€volume excitations at 7T. Journal of Magnetic Resonance Imaging, 2008, 28, 1005-1018.	3.4	67
94	Sparsity-Promoting Calibration for GRAPPA Accelerated Parallel MRI Reconstruction. IEEE Transactions on Medical Imaging, 2013, 32, 1325-1335.	8.9	67
95	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.	3.0	67
96	Accelerated diffusion spectrum imaging with compressed sensing using adaptive dictionaries. Magnetic Resonance in Medicine, 2012, 68, 1747-1754.	3.0	66
97	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
98	g-Ratio weighted imaging of the human spinal cord in vivo. NeuroImage, 2017, 145, 11-23.	4.2	66
99	Hippocampal Volume, PTSD, and Alcoholism in Combat Veterans. American Journal of Psychiatry, 2006, 163, 674-681.	7.2	65
100	Lactate detection at 3T: Compensating J coupling effects with BASING. Journal of Magnetic Resonance Imaging, 1999, 9, 732-737.	3.4	63
101	Targeted imaging of human endothelial-specific marker in a model of adoptive cell transfer. Laboratory Investigation, 2006, 86, 599-609.	3.7	63
102	Accelerated proton echo planar spectroscopic imaging (PEPSI) using GRAPPA with a 32â€channel phasedâ€array coil. Magnetic Resonance in Medicine, 2008, 59, 989-998.	3.0	63
103	Comparison of Cardiac MRI on 1.5 and 3.0 Tesla Clinical Whole Body Systems. Investigative Radiology, 2003, 38, 436-442.	6.2	62
104	Improving parallel imaging by jointly reconstructing multiâ€contrast data. Magnetic Resonance in Medicine, 2018, 80, 619-632.	3.0	62
105	The ultimate signalâ€toâ€noise ratio in realistic body models. Magnetic Resonance in Medicine, 2017, 78, 1969-1980.	3.0	61
106	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.	2.0	59
107	Construction and modeling of a reconfigurable MRI coil for lowering SAR in patients with deep brain stimulation implants. NeuroImage, 2017, 147, 577-588.	4.2	58
108	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.	4.2	58

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109	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.	3.0	57
110	Automatic cortical surface reconstruction of high-resolution T1 echo planar imaging data. NeuroImage, 2016, 134, 338-354.	4.2	57
111	Targeting of White Matter Tracts with Transcranial Magnetic Stimulation. Brain Stimulation, 2014, 7, 80-84.	1.6	56
112	Parallel transmit pulse design for patients with deep brain stimulation implants. Magnetic Resonance in Medicine, 2015, 73, 1896-1903.	3.0	56
113	Age-related alterations in axonal microstructure in the corpus callosum measured by high-gradient diffusion MRI. NeuroImage, 2019, 191, 325-336.	4.2	55
114	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.	2.3	55
115	Sparsity-Enforced Slice-Selective MRI RF Excitation Pulse Design. IEEE Transactions on Medical Imaging, 2008, 27, 1213-1229.	8.9	54
116	Broadband slab selection with B mitigation at 7T via parallel spectralâ€spatial excitation. Magnetic Resonance in Medicine, 2009, 61, 493-500.	3.0	54
117	Accelerating magnetic resonance fingerprinting (MRF) using t-blipped simultaneous multislice (SMS) acquisition. Magnetic Resonance in Medicine, 2016, 75, 2078-2085.	3.0	54
118	Degenerate mode band-pass birdcage coil for accelerated parallel excitation. Magnetic Resonance in Medicine, 2007, 57, 1148-1158.	3.0	53
119	Performance evaluation of a 32â€element head array with respect to the ultimate intrinsic SNR. NMR in Biomedicine, 2010, 23, 142-151.	2.8	53
120	Investigating the Capability to Resolve Complex White Matter Structures with High b-Value Diffusion Magnetic Resonance Imaging on the MGH-USC Connectom Scanner. Brain Connectivity, 2014, 4, 718-726.	1.7	53
121	White matter compartment models for in vivo diffusion MRI at 300 mT/m. NeuroImage, 2015, 118, 468-483.	4.2	53
122	Waveâ€CAIPI for highly accelerated MPâ€RAGE imaging. Magnetic Resonance in Medicine, 2018, 79, 401-406.	3.0	53
123	Nineteen-channel receive array and four-channel transmit array coil for cervical spinal cord imaging at 7T. Magnetic Resonance in Medicine, 2014, 72, 291-300.	3.0	52
124	Rapid multi-orientation quantitative susceptibility mapping. NeuroImage, 2016, 125, 1131-1141.	4.2	52
125	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.	3.0	52
126	Design considerations and coil comparisons for 7 T brain imaging. Applied Magnetic Resonance, 2005, 29, 19-37.	1.2	51

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127	Simultaneous multislice excitation by parallel transmission. Magnetic Resonance in Medicine, 2014, 71, 1416-1427.	3.0	51
128	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.	3.0	51
129	Prediction of peripheral nerve stimulation thresholds of MRI gradient coils using coupled electromagnetic and neurodynamic simulations. Magnetic Resonance in Medicine, 2019, 81, 686-701.	3.0	51
130	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.	4.2	51
131	A technique for detecting GABA in the human brain with PRESS localization and optimized refocusing spectral editing radiofrequency pulses. Magnetic Resonance in Medicine, 1996, 36, 458-461.	3.0	50
132	Singleâ€step quantitative susceptibility mapping with variational penalties. NMR in Biomedicine, 2017, 30, e3570.	2.8	50
133	Axon diameter index estimation independent of fiber orientation distribution using high-gradient diffusion MRI. NeuroImage, 2020, 222, 117197.	4.2	49
134	Functional MRI using regularized parallel imaging acquisition. Magnetic Resonance in Medicine, 2005, 54, 343-353.	3.0	48
135	Hippocampal Volume, PTSD, and Alcoholism in Combat Veterans. American Journal of Psychiatry, 2006, 163, 674-681.	7.2	48
136	A low power radiofrequency pulse for simultaneous multislice excitation and refocusing. Magnetic Resonance in Medicine, 2014, 72, 949-958.	3.0	47
137	Autocalibrated waveâ€‹<scp>CAIPI</scp> reconstruction; Joint optimization of kâ€space trajectory and parallel imaging reconstruction. Magnetic Resonance in Medicine, 2017, 78, 1093-1099.	3.0	47
138	An implanted 8-channel array coil for high-resolution macaque MRI at 3T. NeuroImage, 2012, 62, 1529-1536.	4.2	46
139	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.	4.6	46
140	Chronic citicoline increases phosphodiesters in the brains of healthy older subjects: an in vivo phosphorus magnetic resonance spectroscopy study. Psychopharmacology, 2002, 161, 248-254.	3.1	45
141	Event-related single-shot volumetric functional magnetic resonance inverse imaging of visual processing. NeuroImage, 2008, 42, 230-247.	4.2	45
142	32â€Channel RF coil optimized for brain and cervical spinal cord at 3 T. Magnetic Resonance in Medicine, 2011, 66, 1198-1208.	3.0	45
143	Predicting Magnetostimulation Thresholds in the Peripheral Nervous System using Realistic Body Models. Scientific Reports, 2017, 7, 5316.	3.3	45
144	A probabilistic template of human mesopontine tegmental nuclei from in vivo 7 T MRI. NeuroImage, 2018, 170, 222-230.	4.2	45

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145	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.	8.9	44
146	Highlyâ€accelerated volumetric brain examination using optimized waveâ€CAIPI encoding. Journal of Magnetic Resonance Imaging, 2019, 50, 961-974.	3.4	44
147	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.	2.5	43
148	Nonstationary noise estimation in functional MRI. NeuroImage, 2005, 28, 890-903.	4.2	42
149	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.	3.4	42
150	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.	3.0	42
151	In vivo GABA+ measurement at 1.5T using a PRESS-localized double quantum filter. Magnetic Resonance in Medicine, 2002, 48, 233-241.	3.0	41
152	High-flip-angle slice-selective parallel RF transmission with 8 channels at 7T. Journal of Magnetic Resonance, 2008, 195, 76-84.	2.1	41
153	Stimulus-induced Rotary Saturation (SIRS): A potential method for the detection of neuronal currents with MRI. NeuroImage, 2008, 42, 1357-1365.	4.2	41
154	Slice accelerated diffusionâ€weighted imaging at ultraâ€high field strength. Magnetic Resonance in Medicine, 2014, 71, 1518-1525.	3.0	41
155	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.	4.2	41
156	CENTS: Cortical enhanced neonatal tissue segmentation. Human Brain Mapping, 2011, 32, 382-396.	3.6	40
157	The future of acquisition speed, coverage, sensitivity, and resolution. NeuroImage, 2012, 62, 1221-1229.	4.2	40
158	An anatomically realistic temperature phantom for radiofrequency heating measurements. Magnetic Resonance in Medicine, 2015, 73, 442-450.	3.0	40
159	Highly accelerated multishot echo planar imaging through synergistic machine learning and joint reconstruction. Magnetic Resonance in Medicine, 2019, 82, 1343-1358.	3.0	40
160	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.	3.4	39
161	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.	4.2	39
162	Rodent Cerebral Blood Volume (CBV) changes during hypercapnia observed using Magnetic Particle Imaging (MPI) detection. NeuroImage, 2018, 178, 713-720.	4.2	39

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163	A 31â€channel MR brain array coil compatible with positron emission tomography. Magnetic Resonance in Medicine, 2015, 73, 2363-2375.	3.0	38
164	Impacting the effect of fMRI noise through hardware and acquisition choices â€“ Implications for controlling false positive rates. NeuroImage, 2017, 154, 15-22.	4.2	38
165	Corpus callosum axon diameter relates to cognitive impairment in multiple sclerosis. Annals of Clinical and Translational Neurology, 2019, 6, 882-892.	3.7	38
166	Characterization of Axonal Disease in Patients with Multiple Sclerosis Using High-Gradient-Diffusion MR Imaging. Radiology, 2016, 280, 244-251.	7.3	37
167	Tiltedâ€CAIPI for highly accelerated distortionâ€free EPI with point spread function (PSF) encoding. Magnetic Resonance in Medicine, 2019, 81, 377-392.	3.0	37
168	In vivo human whole-brain Connectom diffusion MRI dataset at 760â€‰Âµm isotropic resolution. Scientific Data, 2021, 8, 122.	5.3	37
169	In vivo 1D and 2D correlation MR spectroscopy of the soleus muscle at 7T. Journal of Magnetic Resonance, 2010, 204, 91-98.	2.1	36
170	Sodium imaging of human brain at 7 T with 15â€channel array coil. Magnetic Resonance in Medicine, 2012, 68, 1807-1814.	3.0	36
171	The Intrinsic Shape of Human and Macaque Primary Visual Cortex. Cerebral Cortex, 2008, 18, 2586-2595.	2.9	35
172	Slice accelerated gradientâ€echo spinâ€echo dynamic susceptibility contrast imaging with blipped CAIPI for increased slice coverage. Magnetic Resonance in Medicine, 2014, 72, 770-778.	3.0	35
173	Simultaneous multislice magnetic resonance fingerprinting (SMSâ€MRF) with directâ€spiral sliceâ€GRAPPA (dsâ€SG) reconstruction. Magnetic Resonance in Medicine, 2017, 77, 1966-1974.	3.0	35
174	Lung Motion and Volume Measurement by Dynamic 3D MRI Using a 128-Channel Receiver Coil. Academic Radiology, 2009, 16, 22-27.	2.5	34
175	T₂-weighted 3D fMRI using S₂-SSFP at 7 tesla. Magnetic Resonance in Medicine, 2010, 63, 1015-1020.	3.0	34
176	Fast Electromagnetic Analysis of MRI Transmit RF Coils Based on Accelerated Integral Equation Methods. IEEE Transactions on Biomedical Engineering, 2016, 63, 2250-2261.	4.2	34
177	Diffusion MRI microstructure models with in vivo human brain Connectome data: results from a multiâ€group comparison. NMR in Biomedicine, 2017, 30, e3734.	2.8	33
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