

# Lawrence L Wald

## List of Publications by Year in Descending Order

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**Version:** 2024-04-20

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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.

322  
papers

16,711  
citations

70  
h-index

116  
g-index

353  
ext. papers

20,106  
ext. citations

5.2  
avg, IF

6.66  
L-index

#	Paper	IF	Citations
3 <sup>22</sup>	Comprehensive diffusion MRI dataset for in vivo human brain microstructure mapping using 300 mT/m gradients.. <i>Scientific Data</i> , <b>2022</b> , 9, 7	8.2	1
3 <sup>21</sup>	3D Echo Planar Time-resolved Imaging (3D-EPTI) for ultrafast multi-parametric quantitative MRI.. <i>NeuroImage</i> , <b>2022</b> , 250, 118963	7.9	3
3 <sup>20</sup>	A 31-channel integrated "AC/DC" B shim and radiofrequency receive array coil for improved 7T MRI. <i>Magnetic Resonance in Medicine</i> , <b>2022</b> , 87, 1074-1092	4.4	1
3 <sup>19</sup>	Scout accelerated motion estimation and reduction (SAMER). <i>Magnetic Resonance in Medicine</i> , <b>2022</b> , 87, 163-178	4.4	1
3 <sup>18</sup>	A HuygensSurface approach to rapid characterization of peripheral nerve stimulation. <i>Magnetic Resonance in Medicine</i> , <b>2022</b> , 87, 377-393	4.4	2
3 <sup>17</sup>	External Dynamic InTerference Estimation and Removal (EDITER) for low field MRI. <i>Magnetic Resonance in Medicine</i> , <b>2022</b> , 87, 614-628	4.4	1
3 <sup>16</sup>	Mapping the Human Connectome using Diffusion MRI at 300 mT/m Gradient Strength: Methodological Advances and Scientific Impact.. <i>NeuroImage</i> , <b>2022</b> , 118958	7.9	1
3 <sup>15</sup>	Portable Brain Scanner Technology for Use in Emergency Medicine <b>2022</b> , 49-74		
3 <sup>14</sup>	Disruption of Brainstem Structural Connectivity in REM Sleep Behavior Disorder Using 7 Tesla Magnetic Resonance Imaging.. <i>Movement Disorders</i> , <b>2021</b> ,	7	4
3 <sup>13</sup>	Simultaneous pure T and varying T <sub>0</sub> weighted BOLD fMRI using Echo Planar Time-resolved Imaging for mapping cortical-depth dependent responses. <i>NeuroImage</i> , <b>2021</b> , 245, 118641	7.9	2
3 <sup>12</sup>	Distortion-free, high-isotropic-resolution diffusion MRI with gSlider BUDA-EPI and multicoil dynamic B shimming. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 791-803	4.4	6
3 <sup>11</sup>	In vivo human whole-brain Connectom diffusion MRI dataset at 760 $\mu$ m isotropic resolution. <i>Scientific Data</i> , <b>2021</b> , 8, 122	8.2	8
3 <sup>10</sup>	A size-adaptive 32-channel array coil for awake infant neuroimaging at 3 Tesla MRI. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 1773-1785	4.4	2
3 <sup>09</sup>	Location of Subcortical Microbleeds and Recovery of Consciousness After Severe Traumatic Brain Injury. <i>Neurology</i> , <b>2021</b> , 97, e113-e123	6.5	3
3 <sup>08</sup>	Optimized 64-channel array configurations for accelerated simultaneous multislice acquisitions in 3T cardiac MRI. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 2276-2289	4.4	2
3 <sup>07</sup>	Concept for using magnetic particle imaging for intraoperative margin analysis in breast-conserving surgery. <i>Scientific Reports</i> , <b>2021</b> , 11, 13456	4.9	5
3 <sup>06</sup>	Low-field portable brain MRI in CNS demyelinating disease. <i>Multiple Sclerosis and Related Disorders</i> , <b>2021</b> , 51, 102903	4	3

305	Safety and imaging performance of two-channel RF shimming for fetal MRI at 3T. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 2810-2821	4.4	0
304	Individualized SAR calculations using computer vision-based MR segmentation and a fast electromagnetic solver. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 429-443	4.4	8
303	A portable scanner for magnetic resonance imaging of the brain. <i>Nature Biomedical Engineering</i> , <b>2021</b> , 5, 229-239	19	29
302	Investigating cardiac stimulation limits of MRI gradient coils using electromagnetic and electrophysiological simulations in human and canine body models. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 1047-1061	4.4	3
301	Optimization of MRI Gradient Coils With Explicit Peripheral Nerve Stimulation Constraints. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , 40, 129-142	11.7	12
300	The Path to Parent-Inclusive Conferences. <i>Journal of the American College of Radiology</i> , <b>2021</b> , 18, 334-336.5		
299	Rapid head-pose detection for automated slice prescription of fetal-brain MRI. <i>International Journal of Imaging Systems and Technology</i> , <b>2021</b> , 31, 1136-1154	2.5	3
298	A 128-channel head coil array for cortical imaging at 7 Tesla <b>2021</b> ,		1
297	A 48-channel receive array coil for mesoscopic diffusion-weighted MRI of ex vivo human brain on the 3 T connectome scanner. <i>NeuroImage</i> , <b>2021</b> , 238, 118256	7.9	5
296	Safety and image quality at 7T MRI for deep brain stimulation systems: Ex vivo study with lead-only and full-systems. <i>PLoS ONE</i> , <b>2021</b> , 16, e0257077	3.7	3
295	Quantitative T and T mapping by magnetic resonance fingerprinting (MRF) of the placenta before and after maternal hyperoxia. <i>Placenta</i> , <b>2021</b> , 114, 124-132	3.4	1
294	Connectome 2.0: Developing the next-generation ultra-high gradient strength human MRI scanner for bridging studies of the micro-, meso- and macro-connectome. <i>NeuroImage</i> , <b>2021</b> , 243, 118530	7.9	6
293	Evaluation of RF interactions between a 3T birdcage transmit coil and transcranial magnetic stimulation coils using a realistically shaped head phantom. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 1061-1075	4.4	8
292	Placental MRI: Effect of maternal position and uterine contractions on placental BOLD MRI measurements. <i>Placenta</i> , <b>2020</b> , 95, 69-77	3.4	16
291	Individual variation in simulated fetal SAR assessed in multiple body models. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 1418-1428	4.4	8
290	An orthogonal shim coil for 3T brain imaging. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 1499-1511	4.4	5
289	Optimizing selective stimulation of peripheral nerves with arrays of coils or surface electrodes using a linear peripheral nerve stimulation metric. <i>Journal of Neural Engineering</i> , <b>2020</b> , 17, 016029	5	8
288	A 16-channel AC/DC array coil for anesthetized monkey whole-brain imaging at 7T. <i>NeuroImage</i> , <b>2020</b> , 207, 116396	7.9	12

287	Axon diameter index estimation independent of fiber orientation distribution using high-gradient diffusion MRI. <i>NeuroImage</i> , <b>2020</b> , 222, 117197	7.9	20
286	An integrated RF-receive/B-shim array coil boosts performance of whole-brain MR spectroscopic imaging at 7 T. <i>Scientific Reports</i> , <b>2020</b> , 10, 15029	4.9	4
285	Further Development of Subspace Imaging to Magnetic Resonance Fingerprinting: A Low-rank Tensor Approach. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2020</b> , 2020, 1662-1666	0.9	0
284	High-gradient diffusion MRI reveals distinct estimates of axon diameter index within different white matter tracts in the in vivo human brain. <i>Brain Structure and Function</i> , <b>2020</b> , 225, 1277-1291	4	24
283	Low-cost and portable MRI. <i>Journal of Magnetic Resonance Imaging</i> , <b>2020</b> , 52, 686-696	5.6	40
282	Design and implementation of a low-cost, tabletop MRI scanner for education and research prototyping. <i>Journal of Magnetic Resonance</i> , <b>2020</b> , 310, 106625	3	7
281	Parallel transmission to reduce absorbed power around deep brain stimulation devices in MRI: Impact of number and arrangement of transmit channels. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 2993-311	4.4	14
280	High-fidelity, high-isotropic-resolution diffusion imaging through gSlider acquisition with and T corrections and integrated B /Rx shim array. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 56-67	4.4	20
279	7 Tesla MRI of the ex vivo human brain at 100 micron resolution. <i>Scientific Data</i> , <b>2019</b> , 6, 244	8.2	82
278	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. <i>Frontiers in Neuroscience</i> , <b>2019</b> , 13, 764	5.1	11
277	Intracortical smoothing of small-voxel fMRI data can provide increased detection power without spatial resolution losses compared to conventional large-voxel fMRI data. <i>NeuroImage</i> , <b>2019</b> , 189, 601-614	7.9	16
276	Echo planar time-resolved imaging (EPTI). <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 3599-3615	4.4	30
275	The MR Cap: A single-sided MRI system designed for potential point-of-care limited field-of-view brain imaging. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 1946-1960	4.4	26
274	Corpus callosum axon diameter relates to cognitive impairment in multiple sclerosis. <i>Annals of Clinical and Translational Neurology</i> , <b>2019</b> , 6, 882-892	5.3	21
273	Functional Involvement of Human Periaqueductal Gray and Other Midbrain Nuclei in Cognitive Control. <i>Journal of Neuroscience</i> , <b>2019</b> , 39, 6180-6189	6.6	10
272	Highly accelerated multishot echo planar imaging through synergistic machine learning and joint reconstruction. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 1343-1358	4.4	17
271	Representational similarity precedes category selectivity in the developing ventral visual pathway. <i>NeuroImage</i> , <b>2019</b> , 197, 565-574	7.9	12
270	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. <i>NeuroImage</i> , <b>2019</b> , 199, 18-29	7.9	24

269	Network Accelerated Motion Estimation and Reduction (NAMER): Convolutional neural network guided retrospective motion correction using a separable motion model. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 1452-1461	4.4	34
268	Dependence of resting-state fMRI fluctuation amplitudes on cerebral cortical orientation relative to the direction of B0 and anatomical axes. <i>NeuroImage</i> , <b>2019</b> , 196, 337-350	7.9	13
267	Phase-matched virtual coil reconstruction for highly accelerated diffusion echo-planar imaging. <i>NeuroImage</i> , <b>2019</b> , 194, 291-302	7.9	14
266	Comparison between 8- and 32-channel phased-array receive coils for in vivo hyperpolarized C imaging of the human brain. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 833-841	4.4	17
265	Highly-accelerated volumetric brain examination using optimized wave-CAIPI encoding. <i>Journal of Magnetic Resonance Imaging</i> , <b>2019</b> , 50, 961-974	5.6	21
264	Changes in the specific absorption rate (SAR) of radiofrequency energy in patients with retained cardiac leads during MRI at 1.5T and 3T. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 653-669	4.4	20
263	Prediction of peripheral nerve stimulation thresholds of MRI gradient coils using coupled electromagnetic and neurodynamic simulations. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 686-701	4.4	30
262	Computer-Vision Techniques for Water-Fat Separation in Ultra High-Field MRI Local Specific Absorption Rate Estimation. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2019</b> , 66, 768-774	5	2
261	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. <i>PLoS ONE</i> , <b>2019</b> , 14, e0220043	3.7	22
260	Ultimate MRI. <i>Journal of Magnetic Resonance</i> , <b>2019</b> , 306, 139-144	3	9
259	Age-related alterations in axonal microstructure in the corpus callosum measured by high-gradient diffusion MRI. <i>NeuroImage</i> , <b>2019</b> , 191, 325-336	7.9	30
258	Imaging G-Ratio in Multiple Sclerosis Using High-Gradient Diffusion MRI and Macromolecular Tissue Volume. <i>American Journal of Neuroradiology</i> , <b>2019</b> , 40, 1871-1877	4.4	21
257	Placental MRI: Developing Accurate Quantitative Measures of Oxygenation. <i>Topics in Magnetic Resonance Imaging</i> , <b>2019</b> , 28, 285-297	2.3	9
256	Tilted-CAIPI for highly accelerated distortion-free EPI with point spread function (PSF) encoding. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 377-392	4.4	23
255	Reducing RF-induced Heating near Implanted Leads through High-Dielectric Capacitive Bleeding of Current (CBLOC). <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2019</b> , 67, 1265-1273	4.1	26
254	Hyperpolarized C MRI: Path to Clinical Translation in Oncology. <i>Neoplasia</i> , <b>2019</b> , 21, 1-16	6.4	210
253	The Virtual DBS population: five realistic computational models of deep brain stimulation patients for electromagnetic MR safety studies. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 035021	3.8	6
252	Optimal Experiment Design for Magnetic Resonance Fingerprinting: Cramér-Rao Bound Meets Spin Dynamics. <i>IEEE Transactions on Medical Imaging</i> , <b>2019</b> , 38, 844-861	11.7	48

251	RF-induced heating in tissue near bilateral DBS implants during MRI at 1.5 T and 3T: The role of surgical lead management. <i>NeuroImage</i> , <b>2019</b> , 184, 566-576	7.9	48
250	Oxytocin attenuates trust as a subset of more general reinforcement learning, with altered reward circuit functional connectivity in males. <i>NeuroImage</i> , <b>2018</b> , 174, 35-43	7.9	20
249	Motion-robust sub-millimeter isotropic diffusion imaging through motion corrected generalized slice dithered enhanced resolution (MC-gSlider) acquisition. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 80, 1891-1906	4.4	18
248	Realistic modeling of deep brain stimulation implants for electromagnetic MRI safety studies. <i>Physics in Medicine and Biology</i> , <b>2018</b> , 63, 095015	3.8	19
247	Validation of diffusion MRI estimates of compartment size and volume fraction in a biomimetic brain phantom using a human MRI scanner with 300 mT/m maximum gradient strength. <i>NeuroImage</i> , <b>2018</b> , 182, 469-478	7.9	32
246	Multimodal Characterization of the Late Effects of Traumatic Brain Injury: A Methodological Overview of the Late Effects of Traumatic Brain Injury Project. <i>Journal of Neurotrauma</i> , <b>2018</b> , 35, 1604-1619	5.4	23
245	Improving parallel imaging by jointly reconstructing multi-contrast data. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 80, 619-632	4.4	38
244	Targeted Motion Estimation and Reduction (TAMER): Data Consistency Based Motion Mitigation for MRI Using a Reduced Model Joint Optimization. <i>IEEE Transactions on Medical Imaging</i> , <b>2018</b> , 37, 1253-1265	11.7	30
243	Computation of ultimate SAR amplification factors for radiofrequency hyperthermia in non-uniform body models: impact of frequency and tumour location. <i>International Journal of Hyperthermia</i> , <b>2018</b> , 34, 87-100	3.7	19
242	Improved magnetic resonance fingerprinting reconstruction with low-rank and subspace modeling. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 933-942	4.4	71
241	A probabilistic template of human mesopontine tegmental nuclei from in vivo 7T MRI. <i>NeuroImage</i> , <b>2018</b> , 170, 222-230	7.9	21
240	Wave-CAIPI for highly accelerated MP-RAGE imaging. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 401-406	4.4	29
239	High-resolution in vivo diffusion imaging of the human brain with generalized slice dithered enhanced resolution: Simultaneous multislice (gSlider-SMS). <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 141-151	4.4	87
238	In vivo B field shimming methods for MRI at 7T. <i>NeuroImage</i> , <b>2018</b> , 168, 71-87	7.9	59
237	Design of sparse Halbach magnet arrays for portable MRI using a genetic algorithm. <i>IEEE Transactions on Magnetics</i> , <b>2018</b> , 54,	2	50
236	Rodent Cerebral Blood Volume (CBV) changes during hypercapnia observed using Magnetic Particle Imaging (MPI) detection. <i>NeuroImage</i> , <b>2018</b> , 178, 713-720	7.9	28
235	A comprehensive diffusion MRI dataset acquired on the MGH Connectome scanner in a biomimetic brain phantom. <i>Data in Brief</i> , <b>2018</b> , 18, 334-339	1.2	2
234	Comparison of new element designs for combined RF-Shim arrays at 7 T <b>2018</b> , 48B,		1

233	Sensitivity analysis of neurodynamic and electromagnetic simulation parameters for robust prediction of peripheral nerve stimulation. <i>Physics in Medicine and Biology</i> , <b>2018</b> , 64, 015005	3.8	4
232	Simulations of a birdcage coil B+ field on a human body model for designing a 3T multichannel TMS/MRI head coil array. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 4752-4755	0.9	3
231	Magnetic Resonance Imaging technology-bridging the gap between noninvasive human imaging and optical microscopy. <i>Current Opinion in Neurobiology</i> , <b>2018</b> , 50, 250-260	7.6	13
230	Feasibility of using linearly polarized rotating birdcage transmitters and close-fitting receive arrays in MRI to reduce SAR in the vicinity of deep brain stimulation implants. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 77, 1701-1712	4.4	43
229	Single-step quantitative susceptibility mapping with variational penalties. <i>NMR in Biomedicine</i> , <b>2017</b> , 30, e3570	4.4	35
228	Simultaneous multislice magnetic resonance fingerprinting (SMS-MRF) with direct-spiral slice-GRAPPA (ds-SG) reconstruction. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 77, 1966-1974	4.4	28
227	Organization of high-level visual cortex in human infants. <i>Nature Communications</i> , <b>2017</b> , 8, 13995	17.4	147
226	High b-value and high Resolution Integrated Diffusion (HIBRID) imaging. <i>NeuroImage</i> , <b>2017</b> , 150, 162-176	7.9	21
225	Simultaneous Time Interleaved MultiSlice (STIMS) for Rapid Susceptibility Weighted acquisition. <i>NeuroImage</i> , <b>2017</b> , 155, 577-586	7.9	17
224	Improved 7 Tesla resting-state fMRI connectivity measurements by cluster-based modeling of respiratory volume and heart rate effects. <i>NeuroImage</i> , <b>2017</b> , 153, 262-272	7.9	11
223	The ultimate signal-to-noise ratio in realistic body models. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 1969-1980	4.4	42
222	Diffusion MRI microstructure models with in vivo human brain Connectome data: results from a multi-group comparison. <i>NMR in Biomedicine</i> , <b>2017</b> , 30, e3734	4.4	26
221	Reduction of across-run variability of temporal SNR in accelerated EPI time-series data through FLEET-based robust autocalibration. <i>NeuroImage</i> , <b>2017</b> , 152, 348-359	7.9	8
220	Use of pattern recognition for unaliasing simultaneously acquired slices in simultaneous multislice MR fingerprinting. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 1870-1876	4.4	20
219	Impacting the effect of fMRI noise through hardware and acquisition choices - Implications for controlling false positive rates. <i>NeuroImage</i> , <b>2017</b> , 154, 15-22	7.9	23
218	Construction and modeling of a reconfigurable MRI coil for lowering SAR in patients with deep brain stimulation implants. <i>NeuroImage</i> , <b>2017</b> , 147, 577-588	7.9	40
217	3D MR fingerprinting with accelerated stack-of-spirals and hybrid sliding-window and GRAPPA reconstruction. <i>NeuroImage</i> , <b>2017</b> , 162, 13-22	7.9	60
216	Predicting Magnetostimulation Thresholds in the Peripheral Nervous System using Realistic Body Models. <i>Scientific Reports</i> , <b>2017</b> , 7, 5316	4.9	33

215	Local SAR near deep brain stimulation (DBS) electrodes at 64 and 127 MHz: A simulation study of the effect of extracranial loops. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 1558-1565	4.4	42
214	Autocalibrated wave-CAIPI reconstruction; Joint optimization of k-space trajectory and parallel imaging reconstruction. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 1093-1099	4.4	37
213	g-Ratio weighted imaging of the human spinal cord in vivo. <i>NeuroImage</i> , <b>2017</b> , 145, 11-23	7.9	54
212	Simultaneous multislice magnetic resonance fingerprinting with low-rank and subspace modeling. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2017</b> , 2017, 3264-3268	0.9	3
211	Design analysis of an MPI human functional brain scanner <b>2017</b> , 3,		19
210	MGH-USC Human Connectome Project datasets with ultra-high b-value diffusion MRI. <i>NeuroImage</i> , <b>2016</b> , 124, 1108-1114	7.9	144
209	Rapid multi-orientation quantitative susceptibility mapping. <i>NeuroImage</i> , <b>2016</b> , 125, 1131-1141	7.9	38
208	Physiological noise model comparison for resting-state fMRI at 7 T <b>2016</b> ,		1
207	Optimal experiment design for magnetic resonance fingerprinting. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 453-456	0.9	12
206	Automatic cortical surface reconstruction of high-resolution T1 echo planar imaging data. <i>NeuroImage</i> , <b>2016</b> , 134, 338-354	7.9	43
205	Fast Electromagnetic Analysis of MRI Transmit RF Coils Based on Accelerated Integral Equation Methods. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2016</b> , 63, 2250-2261	5	24
204	Maximum Likelihood Reconstruction for Magnetic Resonance Fingerprinting. <i>IEEE Transactions on Medical Imaging</i> , <b>2016</b> , 35, 1812-23	11.7	75
203	Characterization of Axonal Disease in Patients with Multiple Sclerosis Using High-Gradient-Diffusion MR Imaging. <i>Radiology</i> , <b>2016</b> , 280, 244-51	20.5	28
202	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). <i>Brain Imaging and Behavior</i> , <b>2016</b> , 10, 1054-1067	4.1	91
201	Signal Fluctuation Sensitivity: An Improved Metric for Optimizing Detection of Resting-State fMRI Networks. <i>Frontiers in Neuroscience</i> , <b>2016</b> , 10, 180	5.1	15
200	Accelerating magnetic resonance fingerprinting (MRF) using t-blipped simultaneous multislice (SMS) acquisition. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 2078-85	4.4	38
199	General design approach and practical realization of decoupling matrices for parallel transmission coils. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 329-39	4.4	5
198	Fast three-dimensional inner volume excitations using parallel transmission and optimized k-space trajectories. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 1170-82	4.4	11



197	Coil-to-coil physiological noise correlations and their impact on functional MRI time-series signal-to-noise ratio. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 1708-1719	4.4	17
196	Multi-atlas and label fusion approach for patient-specific MRI based skull estimation. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 1797-807	4.4	15
195	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. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 540-54	4.4	13
194	Parallel transmission pulse design with explicit control for the specific absorption rate in the presence of radiofrequency errors. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 2493-504	4.4	8
193	Toward 20T magnetic resonance for human brain studies: opportunities for discovery and neuroscience rationale. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2016</b> , 29, 617-39	2.8	46
192	The pulsatility volume index: an indicator of cerebrovascular compliance based on fast magnetic resonance imaging of cardiac and respiratory pulsatility. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2016</b> , 374,	3	12
191	Globally conditioned Granger causality in brain-brain and brain-heart interactions: a combined heart rate variability/ultra-high-field (7 T) functional magnetic resonance imaging study. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2016</b> , 374,	3	32
190	Neuroimaging brainstem circuitry supporting cardiovagal response to pain: a combined heart rate variability/ultra-high-field (7 T) functional magnetic resonance imaging study. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2016</b> , 374,	3	27
189	In vivo functional connectome of human brainstem nuclei of the ascending arousal, autonomic, and motor systems by high spatial resolution 7-Tesla fMRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2016</b> , 29, 451-62	2.8	33
188	Transmit Array Spatial Encoding (TRASE) using broadband WURST pulses for RF spatial encoding in inhomogeneous B0 fields. <i>Journal of Magnetic Resonance</i> , <b>2016</b> , 268, 36-48	3	17
187	Efficacy and Safety of Pedunculopontine Nuclei (PPN) Deep Brain Stimulation in the Treatment of Gait Disorders: A Meta-Analysis of Clinical Studies. <i>Canadian Journal of Neurological Sciences</i> , <b>2016</b> , 43, 120-6	1	28
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32	In vivo tracing of major rat brain pathways using manganese-enhanced magnetic resonance imaging and three-dimensional digital atlas. <i>NeuroImage</i> , <b>2003</b> , 20, 1591-600	7.9	95
31	Stereopsis activates V3A and caudal intraparietal areas in macaques and humans. <i>Neuron</i> , <b>2003</b> , 39, 555-68	6.9	267
30	In vivo GABA+ measurement at 1.5T using a PRESS-localized double quantum filter. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 48, 233-41	4.4	34
29	A detunable elliptic transmission line resonator for body imaging at 3 Tesla. <i>Concepts in Magnetic Resonance</i> , <b>2002</b> , 15, 92-100		2
28	Chronic citicoline increases phosphodiesterases in the brains of healthy older subjects: an in vivo phosphorus magnetic resonance spectroscopy study. <i>Psychopharmacology</i> , <b>2002</b> , 161, 248-54	4.7	34
27	Modulation of brain and serum glutamatergic concentrations following a switch from conventional neuroleptics to olanzapine. <i>Biological Psychiatry</i> , <b>2002</b> , 51, 493-7	7.9	85
26	Repeated fMRI using iron oxide contrast agent in awake, behaving macaques at 3 Tesla. <i>NeuroImage</i> , <b>2002</b> , 16, 283-94	7.9	212
25	Brain proton magnetic resonance spectroscopy in Alzheimer disease: changes after treatment with xanomeline. <i>American Journal of Geriatric Psychiatry</i> , <b>2002</b> , 10, 81-8	6.5	15
24	Three-dimensional magnetic resonance spectroscopic imaging of histologically confirmed brain tumors. <i>Magnetic Resonance Imaging</i> , <b>2001</b> , 19, 89-101	3.3	85
23	Systematic spatial distortion in MRI due to gradient non-linearities. <i>NeuroImage</i> , <b>2001</b> , 13, 50	7.9	11
22	A phased array echoplanar imaging system for fMRI. <i>Magnetic Resonance Imaging</i> , <b>1999</b> , 17, 121-9	3.3	9
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18	Multislice perfusion and perfusion territory imaging in humans with separate label and image coils. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 41, 1093-8	4.4	124

17	T1 effects in sequential dynamic susceptibility contrast experiments. <i>Journal of Magnetic Resonance</i> , <b>1998</b> , 130, 292-5	3	19
16	A localized double-quantum filter for the in vivo detection of brain glucose. <i>Magnetic Resonance in Medicine</i> , <b>1998</b> , 39, 651-6	4.4	32
15	Serial proton magnetic resonance spectroscopy imaging of glioblastoma multiforme after brachytherapy. <i>Journal of Neurosurgery</i> , <b>1997</b> , 87, 525-34	3.2	134
14	High resolution T2-weighted imaging of the human brain using surface coils and an analytical reception profile correction. <i>Journal of Magnetic Resonance Imaging</i> , <b>1997</b> , 7, 512-7	5.6	16
13	Volume MRI and MRSI techniques for the quantitation of treatment response in brain tumors: presentation of a detailed case study. <i>Journal of Magnetic Resonance Imaging</i> , <b>1997</b> , 7, 1146-52	5.6	74
12	In vivo detection of GABA in human brain using a localized double-quantum filter technique. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 37, 366-71	4.4	106
11	Theory and application of array coils in MR spectroscopy. <i>NMR in Biomedicine</i> , <b>1997</b> , 10, 394-410	4.4	221
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9	A technique for detecting GABA in the human brain with PRESS localization and optimized refocusing spectral editing radiofrequency pulses. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 36, 458-61	4.4	47
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4	. <i>IEEE Transactions on Magnetics</i> , <b>1989</b> , 25, 1193-1199	2	28
3	7 Tesla MRI of the ex vivo human brain at 100 micron resolution		5
2	Simultaneous pure T2 and varying T2*-weighted BOLD fMRI using Echo Planar Time-resolved Imaging for mapping cortical-depth dependent responses		2
1	3D Echo Planar Time-resolved Imaging (3D-EPTI) for ultrafast multi-parametric quantitative MRI		2