Lawrence L Wald

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16,711 116 322 70 h-index g-index citations papers 6.66 20,106 5.2 353 L-index avg, IF ext. papers ext. citations

#	Paper	IF	Citations
322	Blipped-controlled aliasing in parallel imaging for simultaneous multislice echo planar imaging with reduced g-factor penalty. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 1210-24	4.4	846
321	A computational atlas of the hippocampal formation using ex vivo, ultra-high resolution MRI: Application to adaptive segmentation of in vivo MRI. <i>NeuroImage</i> , 2015 , 115, 117-37	7.9	566
320	Comparison of physiological noise at 1.5 T, 3 T and 7 T and optimization of fMRI acquisition parameters. <i>NeuroImage</i> , 2005 , 26, 243-50	7.9	495
319	Pushing the limits of in vivo diffusion MRI for the Human Connectome Project. <i>NeuroImage</i> , 2013 , 80, 220-33	7.9	331
318	Automated segmentation of hippocampal subfields from ultra-high resolution in vivo MRI. <i>Hippocampus</i> , 2009 , 19, 549-57	3.5	331
317	32-channel 3 Tesla receive-only phased-array head coil with soccer-ball element geometry. <i>Magnetic Resonance in Medicine</i> , 2006 , 56, 216-23	4.4	300
316	Laminar analysis of 7T BOLD using an imposed spatial activation pattern in human V1. <i>NeuroImage</i> , 2010 , 52, 1334-46	7.9	286
315	Visual word processing and experiential origins of functional selectivity in human extrastriate cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 9087	- 32 ·5	277
314	Stereopsis activates V3A and caudal intraparietal areas in macaques and humans. <i>Neuron</i> , 2003 , 39, 555	-68 .9	267
313	The Human Connectome Project and beyond: initial applications of 300 mT/m gradients. <i>NeuroImage</i> , 2013 , 80, 234-45	7.9	228
312	Improving diffusion MRI using simultaneous multi-slice echo planar imaging. <i>NeuroImage</i> , 2012 , 63, 569	- 8 0)	226
311	Theory and application of array coils in MR spectroscopy. NMR in Biomedicine, 1997, 10, 394-410	4-4	221
310	Repeated fMRI using iron oxide contrast agent in awake, behaving macaques at 3 Tesla. <i>NeuroImage</i> , 2002 , 16, 283-94	7.9	212
309	96-Channel receive-only head coil for 3 Tesla: design optimization and evaluation. <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 754-62	4.4	211
308	Hyperpolarized C MRI: Path to Clinical Translation in Oncology. <i>Neoplasia</i> , 2019 , 21, 1-16	6.4	210
307	Brain Genomics Superstruct Project initial data release with structural, functional, and behavioral measures. <i>Scientific Data</i> , 2015 , 2, 150031	8.2	204
306	Three dimensional echo-planar imaging at 7 Tesla. <i>NeuroImage</i> , 2010 , 51, 261-6	7.9	197

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305	Parallel imaging reconstruction using automatic regularization. <i>Magnetic Resonance in Medicine</i> , 2004 , 51, 559-67	4.4	192	
304	Accurate prediction of V1 location from cortical folds in a surface coordinate system. <i>NeuroImage</i> , 2008 , 39, 1585-99	7.9	179	
303	3T phased array MRI improves the presurgical evaluation in focal epilepsies: a prospective study. <i>Neurology</i> , 2005 , 65, 1026-31	6.5	176	
302	Optogenetically induced behavioral and functional network changes in primates. <i>Current Biology</i> , 2012 , 22, 1722-6	6.3	163	
301	Interslice leakage artifact reduction technique for simultaneous multislice acquisitions. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 93-102	4.4	162	
300	Magnitude least squares optimization for parallel radio frequency excitation design demonstrated at 7 Tesla with eight channels. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 908-15	4.4	153	
299	A 64-channel 3T array coil for accelerated brain MRI. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 248-58	4.4	148	
298	Organization of high-level visual cortex in human infants. <i>Nature Communications</i> , 2017 , 8, 13995	17.4	147	
297	MGH-USC Human Connectome Project datasets with ultra-high b-value diffusion MRI. <i>NeuroImage</i> , 2016 , 124, 1108-1114	7.9	144	
296	Serial proton magnetic resonance spectroscopy imaging of glioblastoma multiforme after brachytherapy. <i>Journal of Neurosurgery</i> , 1997 , 87, 525-34	3.2	134	
295	Visual field map clusters in macaque extrastriate visual cortex. Journal of Neuroscience, 2009, 29, 7031-	96.6	133	
294	Effects of image reconstruction on fiber orientation mapping from multichannel diffusion MRI: reducing the noise floor using SENSE. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 1682-9	4.4	132	
293	Physiological noise and signal-to-noise ratio in fMRI with multi-channel array coils. <i>NeuroImage</i> , 2011 , 55, 597-606	7.9	131	
292	Parallel RF transmission with eight channels at 3 Tesla. <i>Magnetic Resonance in Medicine</i> , 2006 , 56, 1163-	741.4	129	
291	Multislice perfusion and perfusion territory imaging in humans with separate label and image coils. <i>Magnetic Resonance in Medicine</i> , 1999 , 41, 1093-8	4.4	124	
290	Phased array detectors and an automated intensity-correction algorithm for high-resolution MR imaging of the human brain. <i>Magnetic Resonance in Medicine</i> , 1995 , 34, 433-9	4.4	123	
289	Slice-selective RF pulses for in vivo B1+ inhomogeneity mitigation at 7 tesla using parallel RF excitation with a 16-element coil. <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 1422-32	4.4	122	
288	Wave-CAIPI for highly accelerated 3D imaging. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 2152-62	4.4	120	

287	A 128-channel receive-only cardiac coil for highly accelerated cardiac MRI at 3 Tesla. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 1431-9	4.4	120
286	Massively parallel MRI detector arrays. <i>Journal of Magnetic Resonance</i> , 2013 , 229, 75-89	3	118
285	TĦ mapping and BЉrientation-dependence at 7 T reveal cyto- and myeloarchitecture organization of the human cortex. <i>NeuroImage</i> , 2012 , 60, 1006-14	7.9	111
284	Effect of spatial smoothing on physiological noise in high-resolution fMRI. <i>NeuroImage</i> , 2006 , 32, 551-7	7.9	107
283	In vivo detection of GABA in human brain using a localized double-quantum filter technique. <i>Magnetic Resonance in Medicine</i> , 1997 , 37, 366-71	4.4	106
282	Signal-to-noise ratio and spectral linewidth improvements between 1.5 and 7 Tesla in proton echo-planar spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , 2006 , 56, 1200-10	4.4	106
281	Surface based analysis of diffusion orientation for identifying architectonic domains in the in vivo human cortex. <i>Neurolmage</i> , 2013 , 69, 87-100	7.9	100
280	Identification of discrete functional subregions of the human periaqueductal gray. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 17101-6	11.5	98
279	Frontal connections and cognitive changes in normal aging rhesus monkeys: a DTI study. <i>Neurobiology of Aging</i> , 2007 , 28, 1556-67	5.6	96
278	In vivo tracing of major rat brain pathways using manganese-enhanced magnetic resonance imaging and three-dimensional digital atlasing. <i>NeuroImage</i> , 2003 , 20, 1591-600	7.9	95
277	Fast quantitative susceptibility mapping with L1-regularization and automatic parameter selection. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 1444-59	4.4	93
276	Detection of entorhinal layer II using 7Tesla [corrected] magnetic resonance imaging. <i>Annals of Neurology</i> , 2005 , 57, 489-94	9.4	93
275	Size-optimized 32-channel brain arrays for 3 T pediatric imaging. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 1777-87	4.4	92
274	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>	4.1	91
273	Fast image reconstruction with L2-regularization. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 40, 181	-9 .16	90
272	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> , 2018 , 79, 141-151	4.4	87
271	Two-dimensional imaging in a lightweight portable MRI scanner without gradient coils. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 872-83	4.4	86
270	Three-dimensional magnetic resonance spectroscopic imaging of histologically confirmed brain tumors. <i>Magnetic Resonance Imaging</i> , 2001 , 19, 89-101	3.3	85

(2008-2002)

269	Modulation of brain and serum glutamatergic concentrations following a switch from conventional neuroleptics to olanzapine. <i>Biological Psychiatry</i> , 2002 , 51, 493-7	7.9	85	
268	Dynamic magnetic resonance inverse imaging of human brain function. <i>Magnetic Resonance in Medicine</i> , 2006 , 56, 787-802	4.4	84	
267	Reducing sensitivity losses due to respiration and motion in accelerated echo planar imaging by reordering the autocalibration data acquisition. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 665-79	4.4	83	
266	7 Tesla MRI of the ex vivo human brain at 100 micron resolution. <i>Scientific Data</i> , 2019 , 6, 244	8.2	82	
265	The impact of gradient strength on in vivo diffusion MRI estimates of axon diameter. <i>NeuroImage</i> , 2015 , 106, 464-72	7.9	79	
264	Predicting the location of entorhinal cortex from MRI. <i>NeuroImage</i> , 2009 , 47, 8-17	7.9	78	
263	High spatial resolution 1H-MRSI and segmented MRI of cortical gray matter and subcortical white matter in three regions of the human brain. <i>Magnetic Resonance in Medicine</i> , 1999 , 41, 21-9	4.4	77	
262	Proton spectroscopic imaging of the human brain using phased array detectors. <i>Magnetic Resonance in Medicine</i> , 1995 , 34, 440-5	4.4	77	
261	A 32-channel combined RF and B0 shim array for 3T brain imaging. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 441-51	4.4	77	
260	Eight-channel phased array coil and detunable TEM volume coil for 7 T brain imaging. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 235-40	4.4	76	
259	Maximum Likelihood Reconstruction for Magnetic Resonance Fingerprinting. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 1812-23	11.7	75	
258	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> , 1997 , 7, 1146-52	5.6	74	
257	Direct parallel image reconstructions for spiral trajectories using GRAPPA. <i>Magnetic Resonance in Medicine</i> , 2006 , 56, 317-26	4.4	73	
256	Improved magnetic resonance fingerprinting reconstruction with low-rank and subspace modeling. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 933-942	4.4	71	
255	Fast group matching for MR fingerprinting reconstruction. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 523-8	4.4	71	
254	Local specific absorption rate (SAR), global SAR, transmitter power, and excitation accuracy trade-offs in low flip-angle parallel transmit pulse design. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 14	148:57	71	
253	Sensitivity-encoded (SENSE) proton echo-planar spectroscopic imaging (PEPSI) in the human brain. <i>Magnetic Resonance in Medicine</i> , 2007 , 57, 249-57	4.4	71	
252	Dissociation of neural regions associated with anticipatory versus consummatory phases of incentive processing. <i>Psychophysiology</i> , 2008 , 45, 36-49	4.1	69	

251	Real diffusion-weighted MRI enabling true signal averaging and increased diffusion contrast. <i>NeuroImage</i> , 2015 , 122, 373-84	7.9	67
250	Quantitative comparison of cortical surface reconstructions from MP2RAGE and multi-echo MPRAGE data at 3 and 7 T. <i>NeuroImage</i> , 2014 , 90, 60-73	7.9	63
249	Local SAR in parallel transmission pulse design. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 1566-78	4.4	62
248	Hippocampal Volume, PTSD, and Alcoholism in Combat Veterans. <i>American Journal of Psychiatry</i> , 2006 , 163, 674-681	11.9	61
247	Lactate detection at 3T: compensating J coupling effects with BASING. <i>Journal of Magnetic Resonance Imaging</i> , 1999 , 9, 732-7	5.6	61
246	The challenge of connecting the dots in the B.R.A.I.N. <i>Neuron</i> , 2013 , 80, 270-4	13.9	60
245	3D MR fingerprinting with accelerated stack-of-spirals and hybrid sliding-window and GRAPPA reconstruction. <i>Neurolmage</i> , 2017 , 162, 13-22	7.9	60
244	In vivo B field shimming methods for MRI at 7T. NeuroImage, 2018, 168, 71-87	7.9	59
243	Predicting the location of human perirhinal cortex, Brodmann@ area 35, from MRI. <i>NeuroImage</i> , 2013 , 64, 32-42	7.9	59
242	Fast slice-selective radio-frequency excitation pulses for mitigating B+1 inhomogeneity in the human brain at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 1355-64	4.4	59
241	Accelerated volumetric MRI with a SENSE/GRAPPA combination. <i>Journal of Magnetic Resonance Imaging</i> , 2006 , 24, 444-50	5.6	59
240	A wavelet-based approximation of surface coil sensitivity profiles for correction of image intensity inhomogeneity and parallel imaging reconstruction. <i>Human Brain Mapping</i> , 2003 , 19, 96-111	5.9	59
239	Targeted imaging of human endothelial-specific marker in a model of adoptive cell transfer. <i>Laboratory Investigation</i> , 2006 , 86, 599-609	5.9	57
238	Accelerated diffusion spectrum imaging with compressed sensing using adaptive dictionaries. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 1747-54	4.4	55
237	Accelerated proton echo planar spectroscopic imaging (PEPSI) using GRAPPA with a 32-channel phased-array coil. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 989-98	4.4	55
236	In vivo mapping of human spinal cord microstructure at 300mT/m. <i>NeuroImage</i> , 2015 , 118, 494-507	7.9	54
235	g-Ratio weighted imaging of the human spinal cord in vivo. <i>NeuroImage</i> , 2017 , 145, 11-23	7.9	54
234	Specific absorption rate studies of the parallel transmission of inner-volume excitations at 7T. Journal of Magnetic Resonance Imaging, 2008 , 28, 1005-18	5.6	54

233	RARE/turbo spin echo imaging with Simultaneous Multislice Wave-CAIPI. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 929-938	4.4	51
232	Sparsity-promoting calibration for GRAPPA accelerated parallel MRI reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 1325-35	11.7	51
231	Design of sparse Halbach magnet arrays for portable MRI using a genetic algorithm. <i>IEEE Transactions on Magnetics</i> , 2018 , 54,	2	50
230	Comparison of simulated parallel transmit body arrays at 3 T using excitation uniformity, global SAR, local SAR, and power efficiency metrics. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 1137-50	4.4	50
229	Comparison of cardiac MRI on 1.5 and 3.0 Tesla clinical whole body systems. <i>Investigative Radiology</i> , 2003 , 38, 436-42	10.1	49
228	Degenerate mode band-pass birdcage coil for accelerated parallel excitation. <i>Magnetic Resonance in Medicine</i> , 2007 , 57, 1148-58	4.4	48
227	Optimal Experiment Design for Magnetic Resonance Fingerprinting: Cramf-Rao Bound Meets Spin Dynamics. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 844-861	11.7	48
226	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> , 2019 , 184, 566-576	7.9	48
225	White matter compartment models for in vivo diffusion MRI at 300mT/m. <i>NeuroImage</i> , 2015 , 118, 468-8	3 7.9	47
224	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> , 1996 , 36, 458-61	4.4	47
223	Targeting of white matter tracts with transcranial magnetic stimulation. <i>Brain Stimulation</i> , 2014 , 7, 80-4	5.1	46
222	Broadband slab selection with B1+ mitigation at 7T via parallel spectral-spatial excitation. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 493-500	4.4	46
221	Toward 20°T 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
220	Parallel transmit pulse design for patients with deep brain stimulation implants. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 1896-903	4.4	45
219	Simultaneous multislice excitation by parallel transmission. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 1416-27	4.4	45
218	Sparsity-enforced slice-selective MRI RF excitation pulse design. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 1213-29	11.7	45
217	Functional MRI using regularized parallel imaging acquisition. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 343-53	4.4	44
216	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. <i>Magnetic Resonance in Medicina</i> 2017, 77, 1701-1712	4.4	43

215	Automatic cortical surface reconstruction of high-resolution T1 echo planar imaging data. <i>NeuroImage</i> , 2016 , 134, 338-354	7.9	43
214	Design of parallel transmission pulses for simultaneous multislice with explicit control for peak power and local specific absorption rate. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 1946-53	4.4	43
213	Event-related single-shot volumetric functional magnetic resonance inverse imaging of visual processing. <i>NeuroImage</i> , 2008 , 42, 230-47	7.9	43
212	The ultimate signal-to-noise ratio in realistic body models. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 1969-1980	4.4	42
211	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> , 2017 , 78, 1558-1565	4.4	42
210	Nineteen-channel receive array and four-channel transmit array coil for cervical spinal cord imaging at 7T. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 291-300	4.4	42
209	Performance evaluation of a 32-element head array with respect to the ultimate intrinsic SNR. <i>NMR in Biomedicine</i> , 2010 , 23, 142-51	4.4	41
208	Construction and modeling of a reconfigurable MRI coil for lowering SAR in patients with deep brain stimulation implants. <i>NeuroImage</i> , 2017 , 147, 577-588	7.9	40
207	A low power radiofrequency pulse for simultaneous multislice excitation and refocusing. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 949-58	4.4	40
206	Design considerations and coil comparisons for 7 T brain imaging. <i>Applied Magnetic Resonance</i> , 2005 , 29, 19-37	0.8	40
205	Low-cost and portable MRI. Journal of Magnetic Resonance Imaging, 2020, 52, 686-696	5.6	40
204	Toward an In Vivo Neuroimaging Template of Human Brainstem Nuclei of the Ascending Arousal, Autonomic, and Motor Systems. <i>Brain Connectivity</i> , 2015 , 5, 597-607	2.7	39
203	Slice accelerated diffusion-weighted imaging at ultra-high field strength. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 1518-25	4.4	39
202	Rapid multi-orientation quantitative susceptibility mapping. <i>NeuroImage</i> , 2016 , 125, 1131-1141	7.9	38
201	Improving parallel imaging by jointly reconstructing multi-contrast data. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 619-632	4.4	38
200	An implanted 8-channel array coil for high-resolution macaque MRI at 3T. <i>NeuroImage</i> , 2012 , 62, 1529-3	3 6 7.9	38
199	32-channel RF coil optimized for brain and cervical spinal cord at 3 T. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 1198-208	4.4	38
198	Accelerating magnetic resonance fingerprinting (MRF) using t-blipped simultaneous multislice (SMS) acquisition. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 2078-85	4.4	38

(2016-2017)

197	Autocalibrated wave-CAIPI reconstruction; Joint optimization of k-space trajectory and parallel imaging reconstruction. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 1093-1099	4.4	37	
196	Investigating the capability to resolve complex white matter structures with high b-value diffusion magnetic resonance imaging on the MGH-USC Connectom scanner. <i>Brain Connectivity</i> , 2014 , 4, 718-26	2.7	36	
195	Nonstationary noise estimation in functional MRI. NeuroImage, 2005, 28, 890-903	7.9	36	
194	Single-step quantitative susceptibility mapping with variational penalties. <i>NMR in Biomedicine</i> , 2017 , 30, e3570	4.4	35	
193	High-flip-angle slice-selective parallel RF transmission with 8 channels at 7 T. <i>Journal of Magnetic Resonance</i> , 2008 , 195, 76-84	3	35	
192	Hippocampal volume, PTSD, and alcoholism in combat veterans. <i>American Journal of Psychiatry</i> , 2006 , 163, 674-81	11.9	35	
191	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> , 2019 , 82, 1452-1461	4.4	34	
190	The future of acquisition speed, coverage, sensitivity, and resolution. <i>NeuroImage</i> , 2012 , 62, 1221-9	7.9	34	
189	CENTS: cortical enhanced neonatal tissue segmentation. <i>Human Brain Mapping</i> , 2011 , 32, 382-96	5.9	34	
188	T2-weighted 3D fMRI using S2-SSFP at 7 tesla. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 1015-20	4.4	34	
187	In vivo GABA+ measurement at 1.5T using a PRESS-localized double quantum filter. <i>Magnetic Resonance in Medicine</i> , 2002 , 48, 233-41	4.4	34	
186	Chronic citicoline increases phosphodiesters in the brains of healthy older subjects: an in vivo phosphorus magnetic resonance spectroscopy study. <i>Psychopharmacology</i> , 2002 , 161, 248-54	4.7	34	
185	An anatomically realistic temperature phantom for radiofrequency heating measurements. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 442-50	4.4	33	
184	Predicting Magnetostimulation Thresholds in the Peripheral Nervous System using Realistic Body Models. <i>Scientific Reports</i> , 2017 , 7, 5316	4.9	33	
183	Sodium imaging of human brain at 7 T with 15-channel array coil. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 1807-14	4.4	33	
182	In vivo 1D and 2D correlation MR spectroscopy of the soleus muscle at 7T. <i>Journal of Magnetic Resonance</i> , 2010 , 204, 91-8	3	33	
181	Stimulus-induced Rotary Saturation (SIRS): a potential method for the detection of neuronal currents with MRI. <i>NeuroImage</i> , 2008 , 42, 1357-65	7.9	33	
180	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> , 2016 , 29, 451-62	2.8	33	

179	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. Neurolmage, 2018, 182, 469-478	7.9	32
178	A 31-channel MR brain array coil compatible with positron emission tomography. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 2363-75	4.4	32
177	A localized double-quantum filter for the in vivo detection of brain glucose. <i>Magnetic Resonance in Medicine</i> , 1998 , 39, 651-6	4.4	32
176	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> , 2016 , 374,	3	32
175	Slice accelerated gradient-echo spin-echo dynamic susceptibility contrast imaging with blipped CAIPI for increased slice coverage. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 770-8	4.4	31
174	The intrinsic shape of human and macaque primary visual cortex. <i>Cerebral Cortex</i> , 2008 , 18, 2586-95	5.1	31
173	Echo planar time-resolved imaging (EPTI). Magnetic Resonance in Medicine, 2019, 81, 3599-3615	4.4	30
172	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> , 2018 , 37, 125	3 ⁻¹ 12 ⁷ 65	5 30
171	Prediction of peripheral nerve stimulation thresholds of MRI gradient coils using coupled electromagnetic and neurodynamic simulations. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 686-701	4.4	30
170	Lung motion and volume measurement by dynamic 3D MRI using a 128-channel receiver coil. <i>Academic Radiology</i> , 2009 , 16, 22-7	4.3	30
169	Age-related alterations in axonal microstructure in the corpus callosum measured by high-gradient diffusion MRI. <i>NeuroImage</i> , 2019 , 191, 325-336	7.9	30
168	Wave-CAIPI for highly accelerated MP-RAGE imaging. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 401-40	64.4	29
167	A portable scanner for magnetic resonance imaging of the brain. <i>Nature Biomedical Engineering</i> , 2021 , 5, 229-239	19	29
166	Simultaneous multislice magnetic resonance fingerprinting (SMS-MRF) with direct-spiral slice-GRAPPA (ds-SG) reconstruction. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 1966-1974	4.4	28
165	Characterization of Axonal Disease in Patients with Multiple Sclerosis Using High-Gradient-Diffusion MR Imaging. <i>Radiology</i> , 2016 , 280, 244-51	20.5	28
164	Rodent Cerebral Blood Volume (CBV) changes during hypercapnia observed using Magnetic Particle Imaging (MPI) detection. <i>NeuroImage</i> , 2018 , 178, 713-720	7.9	28
163	7-T MRI of the spinal cord can detect lateral corticospinal tract abnormality in amyotrophic lateral sclerosis. <i>Muscle and Nerve</i> , 2013 , 47, 760-2	3.4	28
162	. IEEE Transactions on Magnetics, 1989 , 25, 1193-1199	2	28

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161	Gait Disorders: A Meta-Analysis of Clinical Studies. <i>Canadian Journal of Neurological Sciences</i> , 2016 , 43, 120-6	1	28
160	Quality assessment of high angular resolution diffusion imaging data using bootstrap on Q-ball reconstruction. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 33, 1194-208	5.6	27
159	Phase maps reveal cortical architecture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 11513-4	11.5	27
158	Neuroimaging brainstem circuitry supporting cardiovagal response to pain: a combined heart rate variability/ultrahigh-field (7 T) functional magnetic resonance imaging study. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374,	3	27
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147	Tilted-CAIPI for highly accelerated distortion-free EPI with point spread function (PSF) encoding. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 377-392	4.4	23
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140	A probabilistic template of human mesopontine tegmental nuclei from in vivo 7T MRI. <i>NeuroImage</i> , 2018 , 170, 222-230	7.9	21
139	Imaging G-Ratio in Multiple Sclerosis Using High-Gradient Diffusion MRI and Macromolecular Tissue Volume. <i>American Journal of Neuroradiology</i> , 2019 , 40, 1871-1877	4.4	21
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78 77	Placental MRI: Developing Accurate Quantitative Measures of Oxygenation. <i>Topics in Magnetic</i>		
	Placental MRI: Developing Accurate Quantitative Measures of Oxygenation. <i>Topics in Magnetic Resonance Imaging</i> , 2019 , 28, 285-297 Reduction of across-run variability of temporal SNR in accelerated EPI time-series data through	2.3	9
77	Placental MRI: Developing Accurate Quantitative Measures of Oxygenation. <i>Topics in Magnetic Resonance Imaging</i> , 2019 , 28, 285-297 Reduction of across-run variability of temporal SNR in accelerated EPI time-series data through FLEET-based robust autocalibration. <i>NeuroImage</i> , 2017 , 152, 348-359 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> , 2020 ,	2.3 7.9	9 8
77 76	Placental MRI: Developing Accurate Quantitative Measures of Oxygenation. <i>Topics in Magnetic Resonance Imaging</i> , 2019 , 28, 285-297 Reduction of across-run variability of temporal SNR in accelerated EPI time-series data through FLEET-based robust autocalibration. <i>NeuroImage</i> , 2017 , 152, 348-359 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> , 2020 , 84, 1061-1075 Individual variation in simulated fetal SAR assessed in multiple body models. <i>Magnetic Resonance in</i>	2.3 7.9 4.4	9 8 8
77 76 75	Placental MRI: Developing Accurate Quantitative Measures of Oxygenation. <i>Topics in Magnetic Resonance Imaging</i> , 2019 , 28, 285-297 Reduction of across-run variability of temporal SNR in accelerated EPI time-series data through FLEET-based robust autocalibration. <i>NeuroImage</i> , 2017 , 152, 348-359 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> , 2020 , 84, 1061-1075 Individual variation in simulated fetal SAR assessed in multiple body models. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 1418-1428 Optimizing selective stimulation of peripheral nerves with arrays of coils or surface electrodes	2.3 7.9 4.4 4.4	9 8 8 8

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56	An orthogonal shim coil for 3T brain imaging. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 1499-1511	4.4	5
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43	Location of Subcortical Microbleeds and Recovery of Consciousness After Severe Traumatic Brain Injury. <i>Neurology</i> , 2021 , 97, e113-e123	6.5	3	
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25	Simultaneous pure T2 and varying T2?-weighted BOLD fMRI using Echo Planar Time-resolved Imaging for mapping cortical-depth dependent responses		2
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23	3D Echo Planar Time-resolved Imaging (3D-EPTI) for ultrafast multi-parametric quantitative MRI		2
22	A Huygens Gurface approach to rapid characterization of peripheral nerve stimulation. <i>Magnetic Resonance in Medicine</i> , 2022 , 87, 377-393	4.4	2
21	Aspects of Clinical Imaging at 7 T. Biological Magnetic Resonance, 2006, 59-103	0.5	2
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LIST OF PUBLICATIONS

17	Comprehensive diffusion MRI dataset for in vivo human brain microstructure mapping using 300 mT/m gradients <i>Scientific Data</i> , 2022 , 9, 7	8.2	1
16	A 31-channel integrated "AC/DC" B shim and radiofrequency receive array coil for improved 7T MRI. <i>Magnetic Resonance in Medicine</i> , 2022 , 87, 1074-1092	4.4	1
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