

Mark A Griswold

List of Publications by Citations

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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.

212 papers	13,936 citations	51 h-index	114 g-index
223 ext. papers	16,233 ext. citations	5.6 avg, IF	6.29 L-index

#	Paper	IF	Citations
212	Generalized autocalibrating partially parallel acquisitions (GRAPPA). <i>Magnetic Resonance in Medicine</i> , 2002 , 47, 1202-10	4.4	3581
211	Magnetic resonance fingerprinting. <i>Nature</i> , 2013 , 495, 187-92	50.4	789
210	Dynamic autocalibrated parallel imaging using temporal GRAPPA (TGRAPPA). <i>Magnetic Resonance in Medicine</i> , 2005 , 53, 981-5	4.4	583
209	Field-of-view limitations in parallel imaging. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 1118-26	4.4	468
208	Controlled aliasing in parallel imaging results in higher acceleration (CAIPIRINHA) for multi-slice imaging. <i>Magnetic Resonance in Medicine</i> , 2005 , 53, 684-91	4.4	413
207	SMASH, SENSE, PILS, GRAPPA: how to choose the optimal method. <i>Topics in Magnetic Resonance Imaging</i> , 2004 , 15, 223-36	2.3	311
206	Parallel MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 36, 55-72	5.6	263
205	Controlled aliasing in volumetric parallel imaging (2D CAIPIRINHA). <i>Magnetic Resonance in Medicine</i> , 2006 , 55, 549-56	4.4	257
204	Partially parallel imaging with localized sensitivities (PILS). <i>Magnetic Resonance in Medicine</i> , 2000 , 44, 602-9	4.4	244
203	MR fingerprinting using fast imaging with steady state precession (FISP) with spiral readout. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 1621-31	4.4	220
202	Inversion recovery TrueFISP: quantification of T(1), T(2), and spin density. <i>Magnetic Resonance in Medicine</i> , 2004 , 51, 661-7	4.4	191
201	VD-AUTO-SMASH imaging. <i>Magnetic Resonance in Medicine</i> , 2001 , 45, 1066-74	4.4	181
200	Dual purpose Prussian blue nanoparticles for cellular imaging and drug delivery: a new generation of T1-weighted MRI contrast and small molecule delivery agents. <i>Journal of Materials Chemistry</i> , 2010 , 20, 5251		177
199	Results of the NeuroBlate System first-in-humans Phase I clinical trial for recurrent glioblastoma: clinical article. <i>Journal of Neurosurgery</i> , 2013 , 118, 1202-19	3.2	166
198	General formulation for quantitative G-factor calculation in GRAPPA reconstructions. <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 739-46	4.4	147
197	SVD compression for magnetic resonance fingerprinting in the time domain. <i>IEEE Transactions on Medical Imaging</i> , 2014 , 33, 2311-22	11.7	143
196	A brief review of parallel magnetic resonance imaging. <i>European Radiology</i> , 2003 , 13, 2323-37	8	138

195	Enhanced delivery of chemotherapy to tumors using a multicomponent nanochain with radio-frequency-tunable drug release. <i>ACS Nano</i> , 2012 , 6, 4157-68	16.7	137
194	Resolution enhancement in single-shot imaging using simultaneous acquisition of spatial harmonics (SMASH). <i>Magnetic Resonance in Medicine</i> , 1999 , 41, 1236-45	4.4	131
193	MR fingerprinting for rapid quantification of myocardial T ₁ , T ₂ , and proton spin density. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 1446-1458	4.4	127
192	MR Fingerprinting for Rapid Quantitative Abdominal Imaging. <i>Radiology</i> , 2016 , 279, 278-86	20.5	124
191	High-performance iron oxide nanoparticles for magnetic particle imaging - guided hyperthermia (hMPI). <i>Nanoscale</i> , 2016 , 8, 12162-9	7.7	115
190	Slice profile and B ₀ corrections in 2D magnetic resonance fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 1781-1789	4.4	93
189	Development of a Combined MR Fingerprinting and Diffusion Examination for Prostate Cancer. <i>Radiology</i> , 2017 , 283, 729-738	20.5	90
188	MR Fingerprinting of Adult Brain Tumors: Initial Experience. <i>American Journal of Neuroradiology</i> , 2017 , 38, 492-499	4.4	90
187	Oxygen enhanced MR ventilation imaging of the lung. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1998 , 7, 153-61	2.8	86
186	Repeatability of magnetic resonance fingerprinting T ₁ and T ₂ estimates assessed using the ISMRM/NIST MRI system phantom. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 1452-1457	4.4	85
185	NMR probeheads for in vivo applications. <i>Concepts in Magnetic Resonance</i> , 2000 , 12, 361-388		84
184	Signal-to-noise ratio and signal-to-noise efficiency in SMASH imaging. <i>Magnetic Resonance in Medicine</i> , 1999 , 41, 1009-22	4.4	84
183	Magnetic Particle Imaging Tracers: State-of-the-Art and Future Directions. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2509-17	6.4	83
182	SMASH IMAGING. <i>Magnetic Resonance Imaging Clinics of North America</i> , 1999 , 7, 237-254	1.6	83
181	Pulmonary disorders: ventilation-perfusion MR imaging with animal models. <i>Radiology</i> , 1999 , 213, 871-9	20.5	82
180	Non-Cartesian data reconstruction using GRAPPA operator gridding (GROG). <i>Magnetic Resonance in Medicine</i> , 2007 , 58, 1257-65	4.4	80
179	Time-resolved myocardial perfusion MRI with reduced data acquisition window, improved spatial coverage, resolution and SNR. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11,	6.9	78
178	Improved radial GRAPPA calibration for real-time free-breathing cardiac imaging. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 492-505	4.4	77

177	Fast 3D magnetic resonance fingerprinting for a whole-brain coverage. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 2190-2197	4.4	74
176	IR TrueFISP with a golden-ratio-based radial readout: fast quantification of T1, T2, and proton density. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 71-81	4.4	74
175	Direct parallel image reconstructions for spiral trajectories using GRAPPA. <i>Magnetic Resonance in Medicine</i> , 2006 , 56, 317-26	4.4	73
174	Improved magnetic resonance fingerprinting reconstruction with low-rank and subspace modeling. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 933-942	4.4	71
173	Fast group matching for MR fingerprinting reconstruction. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 523-8	4.4	71
172	Multiscale reconstruction for MR fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 2481-92	4.4	71
171	PARACEST MRI with improved temporal resolution. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 399-408	4.4	70
170	Parallel magnetic resonance imaging using the GRAPPA operator formalism. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 1553-6	4.4	69
169	CEST-FISP: a novel technique for rapid chemical exchange saturation transfer MRI at 7 T. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 432-7	4.4	68
168	2D-GRAPPA-operator for faster 3D parallel MRI. <i>Magnetic Resonance in Medicine</i> , 2006 , 56, 1359-64	4.4	66
167	Non-Cartesian parallel imaging reconstruction. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 40, 1022-40	4.6	63
166	Virtual coil concept for improved parallel MRI employing conjugate symmetric signals. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 93-102	4.4	60
165	Accelerated volumetric MRI with a SENSE/GRAPPA combination. <i>Journal of Magnetic Resonance Imaging</i> , 2006 , 24, 444-50	5.6	59
164	Peptide targeted tripod macrocyclic Gd(III) chelates for cancer molecular MRI. <i>Biomaterials</i> , 2013 , 34, 7683-93	15.6	57
163	Treatment of Invasive Brain Tumors Using a Chain-like Nanoparticle. <i>Cancer Research</i> , 2015 , 75, 1356-65	10.1	56
162	Cost-effectiveness of MR Imaging-guided Strategies for Detection of Prostate Cancer in Biopsy-Naïve Men. <i>Radiology</i> , 2017 , 285, 157-166	20.5	51
161	Rapid T1 mapping of mouse myocardium with saturation recovery Look-Locker method. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 1296-303	4.4	49
160	Optimal Experiment Design for Magnetic Resonance Fingerprinting: Cramér-Rao Bound Meets Spin Dynamics. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 844-861	11.7	48

159	T1 mapping of the entire lung parenchyma: Influence of respiratory phase and correlation to lung function test results in patients with diffuse lung disease. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 96-101	4.4	47
158	Self-calibrating GRAPPA operator gridding for radial and spiral trajectories. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 930-5	4.4	46
157	Preclinical MR fingerprinting (MRF) at 7 T: effective quantitative imaging for rodent disease models. <i>NMR in Biomedicine</i> , 2015 , 28, 384-94	4.4	45
156	Improved temporal resolution in cardiac imaging using through-time spiral GRAPPA. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 1682-8	4.4	45
155	Non-invasive tumor decoding and phenotyping of cerebral gliomas utilizing multiparametric F-FET PET-MRI and MR Fingerprinting. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2020 , 47, 1435-1445	8.8	45
154	Resolution enhancement in lung 1H imaging using parallel imaging methods. <i>Magnetic Resonance in Medicine</i> , 2003 , 49, 391-4	4.4	44
153	Simultaneous T and T Brain Relaxometry in Asymptomatic Volunteers using Magnetic Resonance Fingerprinting. <i>Tomography</i> , 2015 , 1, 136-144	3.1	44
152	Improvements in multislice parallel imaging using radial CAIPIRINHA. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 1630-7	4.4	43
151	Three-dimensional MR Fingerprinting for Quantitative Breast Imaging. <i>Radiology</i> , 2019 , 290, 33-40	20.5	43
150	T1 mapping of the entire lung parenchyma: Influence of the respiratory phase in healthy individuals. <i>Journal of Magnetic Resonance Imaging</i> , 2005 , 21, 759-64	5.6	42
149	Accelerated cardiac imaging using the SMASH technique. <i>Journal of Cardiovascular Magnetic Resonance</i> , 1999 , 1, 153-7	6.9	42
148	Holographic Reconstruction of Axonal Pathways in the Human Brain. <i>Neuron</i> , 2019 , 104, 1056-1064.e3	13.9	41
147	Magnetic Resonance Fingerprinting-An Overview. <i>Current Opinion in Biomedical Engineering</i> , 2017 , 3, 56-66	4.4	41
146	Investigating and reducing the effects of confounding factors for robust T and T mapping with cardiac MR fingerprinting. <i>Magnetic Resonance Imaging</i> , 2018 , 53, 40-51	3.3	40
145	Treatment of cancer micrometastasis using a multicomponent chain-like nanoparticle. <i>Journal of Controlled Release</i> , 2014 , 173, 51-8	11.7	40
144	Autocalibrated coil sensitivity estimation for parallel imaging. <i>NMR in Biomedicine</i> , 2006 , 19, 316-24	4.4	40
143	Reconstruction of undersampled non-Cartesian data sets using pseudo-Cartesian GRAPPA in conjunction with GROG. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 1127-37	4.4	39
142	Development of high-resolution 3D MR fingerprinting for detection and characterization of epileptic lesions. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 49, 1333-1346	5.6	39

141	Modeling the Brownian relaxation of nanoparticle ferrofluids: comparison with experiment. <i>Medical Physics</i> , 2013 , 40, 022303	4.4	38
140	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
139	Recommendations towards standards for quantitative MRI (qMRI) and outstanding needs. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 49, e26-e39	5.6	37
138	Music-based magnetic resonance fingerprinting to improve patient comfort during MRI examinations. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 2303-14	4.4	37
137	Reproducibility and Repeatability of MR Fingerprinting Relaxometry in the Human Brain. <i>Radiology</i> , 2019 , 292, 429-437	20.5	36
136	Fast cardiac T1 mapping in mice using a model-based compressed sensing method. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 1127-34	4.4	36
135	Multiband phase-constrained parallel MRI. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 974-80	4.4	35
134	Myocardial perfusion MRI with sliding-window conjugate-gradient HYPR. <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 835-9	4.4	32
133	A simple geometrical description of the TrueFISP ideal transient and steady-state signal. <i>Magnetic Resonance in Medicine</i> , 2006 , 55, 177-86	4.4	32
132	Bayesian estimation of multicomponent relaxation parameters in magnetic resonance fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 159-170	4.4	32
131	Low rank approximation methods for MR fingerprinting with large scale dictionaries. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 2392-2400	4.4	32
130	Modeling and Validation of the Three-Dimensional Deflection of an MRI-Compatible Magnetically Actuated Steerable Catheter. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 2142-54	5	31
129	AIR-MRF: Accelerated iterative reconstruction for magnetic resonance fingerprinting. <i>Magnetic Resonance Imaging</i> , 2017 , 41, 29-40	3.3	31
128	Clinical evaluation of CAIPIRINHA: comparison against a GRAPPA standard. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 39, 189-94	5.6	31
127	MR Fingerprinting and ADC Mapping for Characterization of Lesions in the Transition Zone of the Prostate Gland. <i>Radiology</i> , 2019 , 292, 685-694	20.5	30
126	Applications of time-resolved MR angiography. <i>American Journal of Roentgenology</i> , 2011 , 196, W613-20	5.4	30
125	Towards a single-sequence neurologic magnetic resonance imaging examination: multiple-contrast images from an IR TrueFISP experiment. <i>Investigative Radiology</i> , 2004 , 39, 767-74	10.1	29
124	SMASH imaging with an eight element multiplexed RF coil array. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2000 , 10, 93-104	2.8	29

123	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
122	Estimation of perfusion properties with MR Fingerprinting Arterial Spin Labeling. <i>Magnetic Resonance Imaging</i> , 2018 , 50, 68-77	3.3	28
121	Evaluation of image quality of a 32-channel versus a 12-channel head coil at 1.5T for MR imaging of the brain. <i>American Journal of Neuroradiology</i> , 2011 , 32, 365-73	4.4	28
120	Control of intravascular catheters using an array of active steering coils. <i>Medical Physics</i> , 2011 , 38, 4215-24	4.4	27
119	Comparison of brain MR images at 1.5T using BLADE and rectilinear techniques for patients who move during data acquisition. <i>American Journal of Neuroradiology</i> , 2012 , 33, 77-82	4.4	27
118	Magnetic resonance fingerprinting Part 1: Potential uses, current challenges, and recommendations. <i>Journal of Magnetic Resonance Imaging</i> , 2020 , 51, 675-692	5.6	27
117	MR fingerprinting using the quick echo splitting NMR imaging technique. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 979-988	4.4	26
116	Ultra-fast and accurate assessment of cardiac function in rats using accelerated MRI at 9.4 Tesla. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 636-41	4.4	26
115	Functional burst imaging. <i>Magnetic Resonance in Medicine</i> , 1998 , 40, 614-21	4.4	25
114	Zigzag sampling for improved parallel imaging. <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 474-8	4.4	25
113	Repeatability and reproducibility of 3D MR fingerprinting relaxometry measurements in normal breast tissue. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 50, 1133-1143	5.6	24
112	Rapid volumetric T1 mapping of the abdomen using three-dimensional through-time spiral GRAPPA. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 1457-65	4.4	24
111	Free-breathing liver perfusion imaging using 3-dimensional through-time spiral generalized autocalibrating partially parallel acquisition acceleration. <i>Investigative Radiology</i> , 2015 , 50, 367-75	10.1	24
110	Time-resolved and bolus-chase MR angiography of the leg: branching pattern analysis and identification of septocutaneous perforators. <i>American Journal of Roentgenology</i> , 2010 , 195, 858-64	5.4	24
109	A multicoil array designed for cardiac SMASH imaging. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2000 , 10, 105-13	2.8	24
108	Iterative Jacobian-Based Inverse Kinematics and Open-Loop Control of an MRI-Guided Magnetically Actuated Steerable Catheter System. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 1765-1776	5.5	23
107	Evaluation of left ventricular ejection fraction using through-time radial GRAPPA. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16, 79	6.9	23
106	Real-time imaging with radial GRAPPA: Implementation on a heterogeneous architecture for low-latency reconstructions. <i>Magnetic Resonance Imaging</i> , 2014 , 32, 747-58	3.3	22

105	AUTO-SMASH: A self-calibrating technique for SMASH imaging. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1998 , 7, 42-54	2.8	22
104	Quantification of left ventricular functional parameter values using 3D spiral bSSFP and through-time non-Cartesian GRAPPA. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16, 65	6.9	21
103	Dual Contrast - Magnetic Resonance Fingerprinting (DC-MRF): A Platform for Simultaneous Quantification of Multiple MRI Contrast Agents. <i>Scientific Reports</i> , 2017 , 7, 8431	4.9	21
102	Rapid 3D radial multi-echo functional magnetic resonance imaging. <i>NeuroImage</i> , 2010 , 52, 1428-43	7.9	21
101	Use of pattern recognition for unaliasing simultaneously acquired slices in simultaneous multislice MR fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 1870-1876	4.4	20
100	Quantitative high-resolution renal perfusion imaging using 3-dimensional through-time radial generalized autocalibrating partially parallel acquisition. <i>Investigative Radiology</i> , 2014 , 49, 666-74	10.1	20
99	Magnetic resonance fingerprinting with quadratic RF phase for measurement of T simultaneously with T_2 , and T. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 1849-1862	4.4	20
98	P magnetic resonance fingerprinting for rapid quantification of creatine kinase reaction rate in vivo. <i>NMR in Biomedicine</i> , 2017 , 30, e3786	4.4	19
97	Parallel transmit excitation at 1.5 T based on the minimization of a driving function for device heating. <i>Medical Physics</i> , 2015 , 42, 359-71	4.4	19
96	Design analysis of an MPI human functional brain scanner 2017 , 3,		19
95	Magnetic resonance field fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 2347-2359	4.4	19
94	Magnetic resonance fingerprinting review part 2: Technique and directions. <i>Journal of Magnetic Resonance Imaging</i> , 2020 , 51, 993-1007	5.6	19
93	Simultaneous magnetic resonance angiography and perfusion (MRAP) measurement: initial application in lower extremity skeletal muscle. <i>Journal of Magnetic Resonance Imaging</i> , 2013 , 38, 1237-44	5.6	18
92	Fast method for 1D non-cartesian parallel imaging using GRAPPA. <i>Magnetic Resonance in Medicine</i> , 2007 , 57, 1037-46	4.4	18
91	Simultaneous multislice cardiac magnetic resonance fingerprinting using low rank reconstruction. <i>NMR in Biomedicine</i> , 2019 , 32, e4041	4.4	18
90	Parameter map error due to normal noise and aliasing artifacts in MR fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 3108-3123	4.4	17
89	Complex difference constrained compressed sensing reconstruction for accelerated PRF thermometry with application to MRI-induced RF heating. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 1420-31	4.4	17
88	On-coil multiple channel transmit system based on class-D amplification and pre-amplification with current amplitude feedback. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 276-89	4.4	17

87	Transmit-receive coil-arrays at 17.6T, configurations for ^1H , ^{23}Na , and ^{31}P MRI. <i>Concepts in Magnetic Resonance Part B</i> , 2006 , 29B, 20-27	2.3	17
86	Self-calibrated trajectory estimation and signal correction method for robust radial imaging using GRAPPA operator gridding. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 883-96	4.4	17
85	Rapid time-resolved magnetic resonance angiography via a multiecho radial trajectory and GraDeS reconstruction. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 346-59	4.4	16
84	Parallel imaging-based reduction of acoustic noise for clinical magnetic resonance imaging. <i>Investigative Radiology</i> , 2014 , 49, 620-6	10.1	16
83	Diffusion-prepared fast imaging with steady-state free precession (DP-FISP): a rapid diffusion MRI technique at 7 T. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 868-73	4.4	16
82	Dynamic three-dimensional magnetic resonance abdominal angiography and perfusion: implementation and preliminary experience. <i>Journal of Magnetic Resonance Imaging</i> , 2000 , 11, 201-7	5.6	16
81	Three-dimensional through-time radial GRAPPA for renal MR angiography. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 40, 864-74	5.6	15
80	Regularly incremented phase encoding - MR fingerprinting (RIPE-MRF) for enhanced motion artifact suppression in preclinical cartesian MR fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 2176-2182	4.4	14
79	Fast magnetic resonance fingerprinting for dynamic contrast-enhanced studies in mice. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 2681-2690	4.4	14
78	Magnetic Resonance Fingerprinting to Characterize Childhood and Young Adult Brain Tumors. <i>Pediatric Neurosurgery</i> , 2019 , 54, 310-318	0.9	14
77	Temporal filtering effects in dynamic parallel MRI. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 192-8	4.4	13
76	Using the GRAPPA operator and the generalized sampling theorem to reconstruct undersampled non-Cartesian data. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 705-15	4.4	13
75	Perspectives and limitations of parallel MR imaging at high field strengths. <i>Neuroimaging Clinics of North America</i> , 2006 , 16, 311-20, xi	3	13
74	NMR-microscopy with TrueFISP at 11.75T. <i>Journal of Magnetic Resonance</i> , 2003 , 161, 252-7	3	13
73	A new supplement to gross anatomy dissection: HoloAnatomy. <i>Medical Education</i> , 2019 , 53, 522-523	3.7	12
72	Active Detuning of MRI Receive Coils with GaN FETs. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 4169-4177	4.1	12
71	On-command drug release from nanochains inhibits growth of breast tumors. <i>Pharmaceutical Research</i> , 2014 , 31, 1460-8	4.5	12
70	Free-breathing myocardial perfusion MRI using SW-CG-HYPR and motion correction. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 1148-54	4.4	12

69	Partial volume mapping using magnetic resonance fingerprinting. <i>NMR in Biomedicine</i> , 2019 , 32, e4082	4.4	12
68	Single breath-hold 3D cardiac T mapping using through-time spiral GRAPPA. <i>NMR in Biomedicine</i> , 2018 , 31, e3923	4.4	11
67	Treatment of glioblastoma using multicomponent silica nanoparticles. <i>Advanced Therapeutics</i> , 2019 , 2, 1900118	4.9	11
66	Molecular Imaging of Tumors Using a Quantitative T 1 Mapping Technique via Magnetic Resonance Imaging. <i>Diagnostics</i> , 2015 , 5, 318-32	3.8	11
65	Simultaneous Mapping of T and T Using Cardiac Magnetic Resonance Fingerprinting in a Cohort of Healthy Subjects at 1.5T. <i>Journal of Magnetic Resonance Imaging</i> , 2020 , 52, 1044-1052	5.6	11
64	Radiomic analysis of magnetic resonance fingerprinting in adult brain tumors. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021 , 48, 683-693	8.8	11
63	MR Fingerprinting with chemical exchange (MRF-X) to quantify subvoxel T1 and extracellular volume fraction. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	10
62	HTGRAPPA: real-time B1-weighted image domain TGRAPPA reconstruction. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 1425-33	4.4	10
61	Accelerating time-resolved MRA with multiecho acquisition. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 1520-8	4.4	10
60	Realistic 4D MRI abdominal phantom for the evaluation and comparison of acquisition and reconstruction techniques. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 1863-1875	4.4	10
59	Mixed reality as a time-efficient alternative to cadaveric dissection. <i>Medical Teacher</i> , 2020 , 42, 896-901	3	9
58	Cardiac cine magnetic resonance fingerprinting for combined ejection fraction, T and T quantification. <i>NMR in Biomedicine</i> , 2020 , 33, e4323	4.4	9
57	Identification and mitigation of interference sources present in SSB-based wireless MRI receiver arrays. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 1775-86	4.4	9
56	Effect of contrast media on single-shot echo planar imaging: implications for abdominal diffusion imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 30, 1203-8	5.6	9
55	Half-Fourier BURST imaging on a clinical scanner. <i>Magnetic Resonance in Medicine</i> , 1997 , 38, 534-40	4.4	9
54	Dynamic Quantitative T1 Mapping in Orthotopic Brain Tumor Xenografts. <i>Translational Oncology</i> , 2016 , 9, 147-154	4.9	8
53	Reducing contrast contamination in radial turbo-spin-echo acquisitions by combining a narrow-band KWIC filter with parallel imaging. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 1680-6	4.4	8
52	RT-GROG: parallelized self-calibrating GROG for real-time MRI. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 306-12	4.4	8

51	Time-resolved MR angiography of the legs at 3 T using a low dose of gadolinium: initial experience and contrast dynamics. <i>American Journal of Roentgenology</i> , 2012 , 198, 686-91	5.4	8
50	Myocardial T and T quantification and water-fat separation using cardiac MR fingerprinting with rosette trajectories at 3T and 1.5T. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 103-119	4.4	8
49	Real-time free-breathing cardiac imaging with self-calibrated through-time radial GRAPPA. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 250-264	4.4	7
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