Mark A Griswold

List of Publications by Year in Descending Order

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	Comparing learning retention in medical students using mixed-reality to supplement dissection: a preliminary study.. *International Journal of Medical Education*, **2022**, 13, 107-114	1.6	3
211	Free-Breathing Abdominal Magnetic Resonance Fingerprinting Using a Pilot Tone Navigator. *Journal of Magnetic Resonance Imaging*, **2021**, 54, 1138-1151	5.6	2
210	Magnetic resonance fingerprinting: an overview. *European Journal of Nuclear Medicine and Molecular Imaging*, **2021**, 48, 4189-4200	8.8	1
209	Myocardial T and T quantification and water-fat separation using cardiac MR fingerprinting with rosette trajectories at 3T and 1.5T. *Magnetic Resonance in Medicine*, **2021**, 85, 103-119	4.4	8
208	3D magnetic resonance fingerprinting with quadratic RF phase. *Magnetic Resonance in Medicine*, **2021**, 85, 2084-2094	4.4	5
207	Radiomic analysis of magnetic resonance fingerprinting in adult brain tumors. *European Journal of Nuclear Medicine and Molecular Imaging*, **2021**, 48, 683-693	8.8	11
206	Rapid B-Insensitive MR Fingerprinting for Quantitative Kidney Imaging. *Radiology*, **2021**, 300, 380-387	20.5	0
205	Feasibility of MR fingerprinting using a high-performance 0.55 T MRI system. *Magnetic Resonance Imaging*, **2021**, 81, 88-93	3.3	2
204	Automated design of pulse sequences for magnetic resonance fingerprinting using physics-inspired optimization. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
203	Assessment of Mixed-Reality Technology Use in Remote Online Anatomy Education. *JAMA Network Open*, **2020**, 3, e2016271	10.4	4
202	Mixed reality as a time-efficient alternative to cadaveric dissection. *Medical Teacher*, **2020**, 42, 896-901	3	9
201	Cardiac cine magnetic resonance fingerprinting for combined ejection fraction, T and T quantification. *NMR in Biomedicine*, **2020**, 33, e4323	4.4	9
200	Differential Image Based Robot to MRI Scanner Registration with Active Fiducial Markers for an MRI-Guided Robotic Catheter System. *IEEE International Conference on Intelligent Robots and Systems*, **2020**, 2020, 2958-2964	0.6	
199	Differential Image Based Robot to MRI Scanner Registration with Active Fiducial Markers for an MRI-Guided Robotic Catheter System **2020**, 2020, 2958-2964		1
198	Non-invasive tumor decoding and phenotyping of cerebral gliomas utilizing multiparametric F-FET PET-MRI and MR Fingerprinting. *European Journal of Nuclear Medicine and Molecular Imaging*, **2020**, 47, 1435-1445	8.8	45
197	Quantifying Perfusion Properties with DCE-MRI Using a Dictionary Matching Approach. *Scientific Reports*, **2020**, 10, 10210	4.9	1
196	Magnetic resonance fingerprinting Part 1: Potential uses, current challenges, and recommendations. *Journal of Magnetic Resonance Imaging*, **2020**, 51, 675-692	5.6	27

195	Magnetic resonance fingerprinting review part 2: Technique and directions. *Journal of Magnetic Resonance Imaging*, **2020**, 51, 993-1007	5.6	19
194	Simultaneous Mapping of T and T Using Cardiac Magnetic Resonance Fingerprinting in a Cohort of Healthy Subjects at 1.5T. *Journal of Magnetic Resonance Imaging*, **2020**, 52, 1044-1052	5.6	11
193	Recommendations towards standards for quantitative MRI (qMRI) and outstanding needs. *Journal of Magnetic Resonance Imaging*, **2019**, 49, e26-e39	5.6	37
192	Parameter map error due to normal noise and aliasing artifacts in MR fingerprinting. *Magnetic Resonance in Medicine*, **2019**, 81, 3108-3123	4.4	17
191	Repeatability and reproducibility of 3D MR fingerprinting relaxometry measurements in normal breast tissue. *Journal of Magnetic Resonance Imaging*, **2019**, 50, 1133-1143	5.6	24
190	A new supplement to gross anatomy dissection: HoloAnatomy. *Medical Education*, **2019**, 53, 522-523	3.7	12
189	Magnetic Resonance Fingerprinting to Characterize Childhood and Young Adult Brain Tumors. *Pediatric Neurosurgery*, **2019**, 54, 310-318	0.9	14
188	MR Fingerprinting and ADC Mapping for Characterization of Lesions in the Transition Zone of the Prostate Gland. *Radiology*, **2019**, 292, 685-694	20.5	30
187	Reproducibility and Repeatability of MR Fingerprinting Relaxometry in the Human Brain. *Radiology*, **2019**, 292, 429-437	20.5	36
186	Holographic Reconstruction of Axonal Pathways in the Human Brain. *Neuron*, **2019**, 104, 1056-1064.e3	13.9	41
185	Treatment of glioblastoma using multicomponent silica nanoparticles. *Advanced Therapeutics*, **2019** , 2, 1900118	4.9	11
184	Partial volume mapping using magnetic resonance fingerprinting. *NMR in Biomedicine*, **2019**, 32, e4082	4.4	12
183	Dynamic, Simultaneous Concentration Mapping of Multiple MRI Contrast Agents with Dual Contrast - Magnetic Resonance Fingerprinting. *Scientific Reports*, **2019**, 9, 19888	4.9	3
182	Development of high-resolution 3D MR fingerprinting for detection and characterization of epileptic lesions. *Journal of Magnetic Resonance Imaging*, **2019**, 49, 1333-1346	5.6	39
181	Simultaneous multislice cardiac magnetic resonance fingerprinting using low rank reconstruction. *NMR in Biomedicine*, **2019**, 32, e4041	4.4	18
180	Realistic 4D MRI abdominal phantom for the evaluation and comparison of acquisition and reconstruction techniques. *Magnetic Resonance in Medicine*, **2019**, 81, 1863-1875	4.4	10
179	Optimal Experiment Design for Magnetic Resonance Fingerprinting: Cram□-Rao Bound Meets Spin Dynamics. *IEEE Transactions on Medical Imaging*, **2019**, 38, 844-861	11.7	48
178	Magnetic resonance fingerprinting with quadratic RF phase for measurement of T simultaneously with □ T , and T. *Magnetic Resonance in Medicine*, **2019**, 81, 1849-1862	4.4	20

177	Three-dimensional MR Fingerprinting for Quantitative Breast Imaging. *Radiology*, **2019**, 290, 33-40	20.5	43
176	Magnetic resonance field fingerprinting. *Magnetic Resonance in Medicine*, **2019**, 81, 2347-2359	4.4	19
175	a-f BLAST: Non-Iterative Radial k-t BLAST Reconstruction for Real-Time Imaging. *IEEE Transactions on Medical Imaging*, **2019**, 38, 775-790	11.7	0
174	Single breath-hold 3D cardiac T mapping using through-time spiral GRAPPA. *NMR in Biomedicine*, **2018**, 31, e3923	4.4	11
173	Regularly incremented phase encoding - MR fingerprinting (RIPE-MRF) for enhanced motion artifact suppression in preclinical cartesian MR fingerprinting. *Magnetic Resonance in Medicine*, **2018**, 79, 2176-2182	4.4	14
172	Quantitative perfusion imaging of neoplastic liver lesions: A multi-institution study. *Scientific Reports*, **2018**, 8, 4990	4.9	7
171	Estimation of perfusion properties with MR Fingerprinting Arterial Spin Labeling. *Magnetic Resonance Imaging*, **2018**, 50, 68-77	3.3	28
170	Improved magnetic resonance fingerprinting reconstruction with low-rank and subspace modeling. *Magnetic Resonance in Medicine*, **2018**, 79, 933-942	4.4	71
169	Fast 3D magnetic resonance fingerprinting for a whole-brain coverage. *Magnetic Resonance in Medicine*, **2018**, 79, 2190-2197	4.4	74
168	Investigating and reducing the effects of confounding factors for robust T and T mapping with cardiac MR fingerprinting. *Magnetic Resonance Imaging*, **2018**, 53, 40-51	3.3	40
167	Fast magnetic resonance fingerprinting for dynamic contrast-enhanced studies in mice. *Magnetic Resonance in Medicine*, **2018**, 80, 2681-2690	4.4	14
166	Cadaver vs. Microsoft HoloLens: A Comparison of Educational Outcomes of a Breast Anatomy Module. *FASEB Journal*, **2018**, 32, 635.6	0.9	3
165	Bayesian estimation of multicomponent relaxation parameters in magnetic resonance fingerprinting. *Magnetic Resonance in Medicine*, **2018**, 80, 159-170	4.4	32
164	Active Localization and Tracking of Needle and Target in Robotic Image-Guided Intervention Systems. *Autonomous Robots*, **2018**, 42, 83-97	3	4
163	Low rank approximation methods for MR fingerprinting with large scale dictionaries. *Magnetic Resonance in Medicine*, **2018**, 79, 2392-2400	4.4	32
162	Real-time free-breathing cardiac imaging with self-calibrated through-time radial GRAPPA. *Magnetic Resonance in Medicine*, **2017**, 77, 250-264	4.4	7
161	MR fingerprinting using the quick echo splitting NMR imaging technique. *Magnetic Resonance in Medicine*, **2017**, 77, 979-988	4.4	26
160	MR fingerprinting for rapid quantification of myocardial T , T , and proton spin density. *Magnetic Resonance in Medicine*, **2017**, 77, 1446-1458	4.4	127

159	Simultaneous multislice magnetic resonance fingerprinting (SMS-MRF) with direct-spiral slice-GRAPPA (ds-SG) reconstruction. *Magnetic Resonance in Medicine*, **2017**, 77, 1966-1974	4.4	28
158	Slice profile and B corrections in 2D magnetic resonance fingerprinting. *Magnetic Resonance in Medicine*, **2017**, 78, 1781-1789	4.4	93
157	MR fingerprinting for rapid quantification of myocardial T1, T2, and proton spin density. *Magnetic Resonance in Medicine*, **2017**, 77, C1-C1	4.4	5
156	Development of a Combined MR Fingerprinting and Diffusion Examination for Prostate Cancer. *Radiology*, **2017**, 283, 729-738	20.5	90
155	Iterative Jacobian-Based Inverse Kinematics and Open-Loop Control of an MRI-Guided Magnetically Actuated Steerable Catheter System. *IEEE/ASME Transactions on Mechatronics*, **2017**, 22, 1765-1776	5.5	23
154	Cost-effectiveness of MR Imaging-guided Strategies for Detection of Prostate Cancer in Biopsy-Naive Men. *Radiology*, **2017**, 285, 157-166	20.5	51
153	Use of pattern recognition for unaliasing simultaneously acquired slices in simultaneous multislice MR fingerprinting. *Magnetic Resonance in Medicine*, **2017**, 78, 1870-1876	4.4	20
152	MR Fingerprinting of Adult Brain Tumors: Initial Experience. *American Journal of Neuroradiology*, **2017**, 38, 492-499	4.4	90
151	Dual Contrast - Magnetic Resonance Fingerprinting (DC-MRF): A Platform for Simultaneous Quantification of Multiple MRI Contrast Agents. *Scientific Reports*, **2017**, 7, 8431	4.9	21
150	P magnetic resonance fingerprinting for rapid quantification of creatine kinase reaction rate in vivo. *NMR in Biomedicine*, **2017**, 30, e3786	4.4	19
149	AIR-MRF: Accelerated iterative reconstruction for magnetic resonance fingerprinting. *Magnetic Resonance Imaging*, **2017**, 41, 29-40	3.3	31
148	Magnetic Resonance Fingerprinting-An Overview. *Current Opinion in Biomedical Engineering*, **2017**, 3, 56-66	4.4	41
147	High efficiency radiofrequency power amplifier module for parallel transmit arrays at 3 Tesla. *Magnetic Resonance in Medicine*, **2017**, 78, 1589-1598	4.4	3
146	Repeatability of magnetic resonance fingerprinting T and T estimates assessed using the ISMRM/NIST MRI system phantom. *Magnetic Resonance in Medicine*, **2017**, 78, 1452-1457	4.4	85
145	Simultaneous multislice magnetic resonance fingerprinting with low-rank and subspace modeling. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 3264-3268	0.9	3
144	Design analysis of an MPI human functional brain scanner **2017**, 3,		19
143	Cardiac MR fingerprinting for T1 and T2 mapping in four heartbeats. *Journal of Cardiovascular Magnetic Resonance*, **2016**, 18,	6.9	6
142	Dynamic Quantitative T1 Mapping in Orthotopic Brain Tumor Xenografts. *Translational Oncology*, **2016**, 9, 147-154	4.9	8

141	Rapid volumetric T1 mapping of the abdomen using three-dimensional through-time spiral GRAPPA. *Magnetic Resonance in Medicine*, **2016**, 75, 1457-65	4.4	24
140	MR Fingerprinting for Rapid Quantitative Abdominal Imaging. *Radiology*, **2016**, 279, 278-86	20.5	124
139	Modeling and Validation of the Three-Dimensional Deflection of an MRI-Compatible Magnetically Actuated Steerable Catheter. *IEEE Transactions on Biomedical Engineering*, **2016**, 63, 2142-54	5	31
138	Music-based magnetic resonance fingerprinting to improve patient comfort during MRI examinations. *Magnetic Resonance in Medicine*, **2016**, 75, 2303-14	4.4	37
137	Accelerating magnetic resonance fingerprinting (MRF) using t-blipped simultaneous multislice (SMS) acquisition. *Magnetic Resonance in Medicine*, **2016**, 75, 2078-85	4.4	38
136	Self-calibrated trajectory estimation and signal correction method for robust radial imaging using GRAPPA operator gridding. *Magnetic Resonance in Medicine*, **2016**, 75, 883-96	4.4	17
135	High-performance iron oxide nanoparticles for magnetic particle imaging - guided hyperthermia (hMPI). *Nanoscale*, **2016**, 8, 12162-9	7.7	115
134	Multiscale reconstruction for MR fingerprinting. *Magnetic Resonance in Medicine*, **2016**, 75, 2481-92	4.4	71
133	Magnetic Particle Imaging Tracers: State-of-the-Art and Future Directions. *Journal of Physical Chemistry Letters*, **2015**, 6, 2509-17	6.4	83
132	MR Fingerprinting with chemical exchange (MRF-X) to quantify subvoxel T1 and extracellular volume fraction. *Journal of Cardiovascular Magnetic Resonance*, **2015**, 17,	6.9	10
131	Complex difference constrained compressed sensing reconstruction for accelerated PRF thermometry with application to MRI-induced RF heating. *Magnetic Resonance in Medicine*, **2015**, 73, 1420-31	4.4	17
130	Inflection Points in Magnetic Resonance Imaging Technology-35 Years of Collaborative Research and Development. *Investigative Radiology*, **2015**, 50, 645-56	10.1	1
129	MR fingerprinting using fast imaging with steady state precession (FISP) with spiral readout. *Magnetic Resonance in Medicine*, **2015**, 74, spcone-spcone	4.4	2
128	Lipid elimination with an echo-shifting N/2-ghost acquisition (LEENA) MRI. *Magnetic Resonance in Medicine*, **2015**, 73, 711-7	4.4	3
127	Free-breathing liver perfusion imaging using 3-dimensional through-time spiral generalized autocalibrating partially parallel acquisition acceleration. *Investigative Radiology*, **2015**, 50, 367-75	10.1	24
126	Molecular Imaging of Tumors Using a Quantitative T 1 Mapping Technique via Magnetic Resonance Imaging. *Diagnostics*, **2015**, 5, 318-32	3.8	11
125	Active Detuning of MRI Receive Coils with GaN FETs. *IEEE Transactions on Microwave Theory and Techniques*, **2015**, 63, 4169-4177	4.1	12
124	Fast group matching for MR fingerprinting reconstruction. *Magnetic Resonance in Medicine*, **2015**, 74, 523-8	4.4	71

123	MR fingerprinting using fast imaging with steady state precession (FISP) with spiral readout. *Magnetic Resonance in Medicine*, **2015**, 74, 1621-31	4.4	220
122	Preclinical MR fingerprinting (MRF) at 7 T: effective quantitative imaging for rodent disease models. *NMR in Biomedicine*, **2015**, 28, 384-94	4.4	45
121	Treatment of Invasive Brain Tumors Using a Chain-like Nanoparticle. *Cancer Research*, **2015**, 75, 1356-65	10.1	56
120	Parallel transmit excitation at 1.5 T based on the minimization of a driving function for device heating. *Medical Physics*, **2015**, 42, 359-71	4.4	19
119	Simultaneous T and T Brain Relaxometry in Asymptomatic Volunteers using Magnetic Resonance Fingerprinting. *Tomography*, **2015**, 1, 136-144	3.1	44
118	Accelerated delayed enhancement imaging of myocardial infarction with through-time radial GRAPPA. *Journal of Cardiovascular Magnetic Resonance*, **2014**, 16,	6.9	1
117	Non-Cartesian parallel imaging reconstruction. *Journal of Magnetic Resonance Imaging*, **2014**, 40, 1022-40	3.6	63
116	Quantification of left ventricular functional parameter values using 3D spiral bSSFP and through-time non-Cartesian GRAPPA. *Journal of Cardiovascular Magnetic Resonance*, **2014**, 16, 65	6.9	21
115	Real-time imaging with radial GRAPPA: Implementation on a heterogeneous architecture for low-latency reconstructions. *Magnetic Resonance Imaging*, **2014**, 32, 747-58	3.3	22
114	Treatment of cancer micrometastasis using a multicomponent chain-like nanoparticle. *Journal of Controlled Release*, **2014**, 173, 51-8	11.7	40
113	Reducing contrast contamination in radial turbo-spin-echo acquisitions by combining a narrow-band KWIC filter with parallel imaging. *Magnetic Resonance in Medicine*, **2014**, 72, 1680-6	4.4	8
112	Auto-calibration approach for k-t SENSE. *Magnetic Resonance in Medicine*, **2014**, 71, 1123-9	4.4	5
111	Evaluation of left ventricular ejection fraction using through-time radial GRAPPA. *Journal of Cardiovascular Magnetic Resonance*, **2014**, 16, 79	6.9	23
110	SVD compression for magnetic resonance fingerprinting in the time domain. *IEEE Transactions on Medical Imaging*, **2014**, 33, 2311-22	11.7	143
109	NI-07MAGNETIC RESONANCE FINGERPRINTING OF BRAIN TUMORS: INITIAL CLINICAL RESULTS. *Neuro-Oncology*, **2014**, 16, v139-v139	1	1
108	Clinical evaluation of CAIPIRINHA: comparison against a GRAPPA standard. *Journal of Magnetic Resonance Imaging*, **2014**, 39, 189-94	5.6	31
107	Three-dimensional through-time radial GRAPPA for renal MR angiography. *Journal of Magnetic Resonance Imaging*, **2014**, 40, 864-74	5.6	15
106	Device localization and dynamic scan plane selection using a wireless magnetic resonance imaging detector array. *Magnetic Resonance in Medicine*, **2014**, 71, 2243-9	4.4	5

105	Quantitative high-resolution renal perfusion imaging using 3-dimensional through-time radial generalized autocalibrating partially parallel acquisition. *Investigative Radiology*, **2014**, 49, 666-74	10.1	20
104	Parallel imaging-based reduction of acoustic noise for clinical magnetic resonance imaging. *Investigative Radiology*, **2014**, 49, 620-6	10.1	16
103	On-command drug release from nanochains inhibits growth of breast tumors. *Pharmaceutical Research*, **2014**, 31, 1460-8	4.5	12
102	IR TrueFISP with a golden-ratio-based radial readout: fast quantification of T1, T2, and proton density. *Magnetic Resonance in Medicine*, **2013**, 69, 71-81	4.4	74
101	Rapid time-resolved magnetic resonance angiography via a multiecho radial trajectory and GraDeS reconstruction. *Magnetic Resonance in Medicine*, **2013**, 69, 346-59	4.4	16
100	Magnetic particle spectroscopy of magnetite-polyethylene nanocomposite films: A novel sample for MPI tracer design **2013**,		2
99	Simultaneous magnetic resonance angiography and perfusion (MRAP) measurement: initial application in lower extremity skeletal muscle. *Journal of Magnetic Resonance Imaging*, **2013**, 38, 1237-44	5.6	18
98	Peptide targeted tripod macrocyclic Gd(III) chelates for cancer molecular MRI. *Biomaterials*, **2013**, 34, 7683-93	15.6	57
97	Magnetic resonance fingerprinting. *Nature*, **2013**, 495, 187-92	50.4	789
96	On-coil multiple channel transmit system based on class-D amplification and pre-amplification with current amplitude feedback. *Magnetic Resonance in Medicine*, **2013**, 70, 276-89	4.4	17
95	Results of the NeuroBlate System first-in-humans Phase I clinical trial for recurrent glioblastoma: clinical article. *Journal of Neurosurgery*, **2013**, 118, 1202-19	3.2	166
94	Modeling the Brownian relaxation of nanoparticle ferrofluids: comparison with experiment. *Medical Physics*, **2013**, 40, 022303	4.4	38
93	Novel magnetomechanical MR compatible vibrational device for producing kinesthetic illusion during fMRI. *Medical Physics*, **2013**, 40, 112303	4.4	6
92	Multi-turn transmit coil to increase b1 efficiency in current source amplification. *Magnetic Resonance in Medicine*, **2013**, 69, 1180-5	4.4	6
91	Identification and mitigation of interference sources present in SSB-based wireless MRI receiver arrays. *Magnetic Resonance in Medicine*, **2013**, 70, 1775-86	4.4	9
90	Multiband phase-constrained parallel MRI. *Magnetic Resonance in Medicine*, **2013**, 69, 974-80	4.4	35
89	Time-efficient slab-selective water excitation for 3D MRI. *Magnetic Resonance in Medicine*, **2012**, 67, 127-36	4.4	
88	Enhanced delivery of chemotherapy to tumors using a multicomponent nanochain with radio-frequency-tunable drug release. *ACS Nano*, **2012**, 6, 4157-68	16.7	137

87	Characterization of Multichannel Coil Arrays on the Benchtop **2012**,		2
86	Through-time 3D radial GRAPPA for whole heart cardiac imaging. *Journal of Cardiovascular Magnetic Resonance*, **2012**, 14,	6.9	2
85	Parallel MR imaging. *Journal of Magnetic Resonance Imaging*, **2012**, 36, 55-72	5.6	263
84	Parallel excitation for B-field insensitive fat-saturation preparation. *Magnetic Resonance in Medicine* , **2012**, 68, 631-8	4.4	6
83	T-one insensitive steady state imaging: a framework for purely T2-weighted TrueFISP. *Magnetic Resonance in Medicine*, **2012**, 68, 409-20	4.4	5
82	Diffusion-prepared fast imaging with steady-state free precession (DP-FISP): a rapid diffusion MRI technique at 7 T. *Magnetic Resonance in Medicine*, **2012**, 68, 868-73	4.4	16
81	Resolution enhanced T1-insensitive steady-state imaging. *Magnetic Resonance in Medicine*, **2012**, 68, 421-9	4.4	4
80	Fast cardiac T1 mapping in mice using a model-based compressed sensing method. *Magnetic Resonance in Medicine*, **2012**, 68, 1127-34	4.4	36
79	Comparison of brain MR images at 1.5T using BLADE and rectilinear techniques for patients who move during data acquisition. *American Journal of Neuroradiology*, **2012**, 33, 77-82	4.4	27
78	Time-resolved MR angiography of the legs at 3 T using a low dose of gadolinium: initial experience and contrast dynamics. *American Journal of Roentgenology*, **2012**, 198, 686-91	5.4	8
77	Parallel Imaging in Angiography **2012**, 185-198		
76	Control of intravascular catheters using an array of active steering coils. *Medical Physics*, **2011**, 38, 4215-24	4.4	27
75	Improved radial GRAPPA calibration for real-time free-breathing cardiac imaging. *Magnetic Resonance in Medicine*, **2011**, 65, 492-505	4.4	77
74	CEST-FISP: a novel technique for rapid chemical exchange saturation transfer MRI at 7 T. *Magnetic Resonance in Medicine*, **2011**, 65, 432-7	4.4	68
73	Improvements in multislice parallel imaging using radial CAIPIRINHA. *Magnetic Resonance in Medicine*, **2011**, 65, 1630-7	4.4	43
72	Temporal filtering effects in dynamic parallel MRI. *Magnetic Resonance in Medicine*, **2011**, 66, 192-8	4.4	13
71	Improved temporal resolution in cardiac imaging using through-time spiral GRAPPA. *Magnetic Resonance in Medicine*, **2011**, 66, 1682-8	4.4	45
70	Three-dimensional quadrature array coil elements for improved parallel magnetic resonance imaging performance at 1.5 Tesla. *Concepts in Magnetic Resonance Part A: Bridging Education and Research*, **2011**, 38A, 61-73	0.6	1

69	Applications of time-resolved MR angiography. *American Journal of Roentgenology*, **2011**, 196, W613-20	5.4	30
68	Evaluation of image quality of a 32-channel versus a 12-channel head coil at 1.5T for MR imaging of the brain. *American Journal of Neuroradiology*, **2011**, 32, 365-73	4.4	28
67	Time-resolved and bolus-chase MR angiography of the leg: branching pattern analysis and identification of septocutaneous perforators. *American Journal of Roentgenology*, **2010**, 195, 858-64	5.4	24
66	Rapid 3D radial multi-echo functional magnetic resonance imaging. *NeuroImage*, **2010**, 52, 1428-43	7.9	21
65	RT-GROG: parallelized self-calibrating GROG for real-time MRI. *Magnetic Resonance in Medicine*, **2010**, 64, 306-12	4.4	8
64	Dual purpose Prussian blue nanoparticles for cellular imaging and drug delivery: a new generation of T1-weighted MRI contrast and small molecule delivery agents. *Journal of Materials Chemistry*, **2010**, 20, 5251		177
63	Multiple overlapping k-space junctions for investigating translating objects (MOJITO). *IEEE Transactions on Medical Imaging*, **2010**, 29, 339-49	11.7	7
62	Characterization and reduction of saturation banding in multiplanar coherent and incoherent steady-state imaging. *Magnetic Resonance in Medicine*, **2010**, 63, 1415-21	4.4	6
61	Accelerating time-resolved MRA with multiecho acquisition. *Magnetic Resonance in Medicine*, **2010**, 63, 1520-8	4.4	10
60	Free-breathing myocardial perfusion MRI using SW-CG-HYPR and motion correction. *Magnetic Resonance in Medicine*, **2010**, 64, 1148-54	4.4	12
59	Rapid T1 mapping of mouse myocardium with saturation recovery Look-Locker method. *Magnetic Resonance in Medicine*, **2010**, 64, 1296-303	4.4	49
58	Double spiral array coil design for enhanced 3D parallel MRI at 1.5 Tesla. *Concepts in Magnetic Resonance Part B*, **2009**, 35B, 67-79	2.3	6
57	Halting the effects of flow enhancement with effective intermittent zeugmatographic encoding (HEFEWEIZEN) in SSFP. *Journal of Magnetic Resonance Imaging*, **2009**, 29, 1163-74	5.6	
56	Effect of contrast media on single-shot echo planar imaging: implications for abdominal diffusion imaging. *Journal of Magnetic Resonance Imaging*, **2009**, 30, 1203-8	5.6	9
55	Virtual coil concept for improved parallel MRI employing conjugate symmetric signals. *Magnetic Resonance in Medicine*, **2009**, 61, 93-102	4.4	60
54	PARACEST MRI with improved temporal resolution. *Magnetic Resonance in Medicine*, **2009**, 61, 399-408	4.4	70
53	Using the GRAPPA operator and the generalized sampling theorem to reconstruct undersampled non-Cartesian data. *Magnetic Resonance in Medicine*, **2009**, 61, 705-15	4.4	13
52	HTGRAPPA: real-time B1-weighted image domain TGRAPPA reconstruction. *Magnetic Resonance in Medicine*, **2009**, 61, 1425-33	4.4	10

51	Myocardial perfusion MRI with sliding-window conjugate-gradient HYPR. *Magnetic Resonance in Medicine*, **2009**, 62, 835-9	4.4	32
50	General formulation for quantitative G-factor calculation in GRAPPA reconstructions. *Magnetic Resonance in Medicine*, **2009**, 62, 739-46	4.4	147
49	Time-resolved myocardial perfusion MRI with reduced data acquisition window, improved spatial coverage, resolution and SNR. *Journal of Cardiovascular Magnetic Resonance*, **2009**, 11,	6.9	78
48	T1 mapping of the entire lung parenchyma: Influence of respiratory phase and correlation to lung function test results in patients with diffuse lung disease. *Magnetic Resonance in Medicine*, **2008**, 59, 96-101	4.4	47
47	Ultra-fast and accurate assessment of cardiac function in rats using accelerated MRI at 9.4 Tesla. *Magnetic Resonance in Medicine*, **2008**, 59, 636-41	4.4	26
46	Self-calibrating GRAPPA operator gridding for radial and spiral trajectories. *Magnetic Resonance in Medicine*, **2008**, 59, 930-5	4.4	46
45	Reconstruction of undersampled non-Cartesian data sets using pseudo-Cartesian GRAPPA in conjunction with GROG. *Magnetic Resonance in Medicine*, **2008**, 59, 1127-37	4.4	39
44	Zigzag sampling for improved parallel imaging. *Magnetic Resonance in Medicine*, **2008**, 60, 474-8	4.4	25
43	Fast method for 1D non-cartesian parallel imaging using GRAPPA. *Magnetic Resonance in Medicine*, **2007**, 57, 1037-46	4.4	18
42	Analysis of signal-to-noise behavior in Cartesian continuous sampling sequences: predictions and experimental validation of opportunities for improved image SNR. *Magnetic Resonance in Medicine*, **2007**, 58, 819-24	4.4	2
41	Non-Cartesian data reconstruction using GRAPPA operator gridding (GROG). *Magnetic Resonance in Medicine*, **2007**, 58, 1257-65	4.4	80
40	Basic Reconstruction Algorithms for Parallel Imaging **2007**, 19-36		5
39	Autocalibrated coil sensitivity estimation for parallel imaging. *NMR in Biomedicine*, **2006**, 19, 316-24	4.4	40
38	Transmit-receive coil-arrays at 17.6T, configurations for 1H, 23Na, and 31P MRI. *Concepts in Magnetic Resonance Part B*, **2006**, 29B, 20-27	2.3	17
37	A simple geometrical description of the TrueFISP ideal transient and steady-state signal. *Magnetic Resonance in Medicine*, **2006**, 55, 177-86	4.4	32
36	Controlled aliasing in volumetric parallel imaging (2D CAIPIRINHA). *Magnetic Resonance in Medicine*, **2006**, 55, 549-56	4.4	257
35	Direct parallel image reconstructions for spiral trajectories using GRAPPA. *Magnetic Resonance in Medicine*, **2006**, 56, 317-26	4.4	73
34	2D-GRAPPA-operator for faster 3D parallel MRI. *Magnetic Resonance in Medicine*, **2006**, 56, 1359-64	4.4	66

33	Accelerated volumetric MRI with a SENSE/GRAPPA combination. *Journal of Magnetic Resonance Imaging*, **2006**, 24, 444-50	5.6	59
32	Perspectives and limitations of parallel MR imaging at high field strengths. *Neuroimaging Clinics of North America*, **2006**, 16, 311-20, xi	3	13
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