

Mark A Griswold

List of Publications by Year in descending order

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221
papers

17,755
citations

23567

58
h-index

14759

127
g-index

223
all docs

223
docs citations

223
times ranked

11132
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized autocalibrating partially parallel acquisitions (GRAPPA). <i>Magnetic Resonance in Medicine</i> , 2002, 47, 1202-1210.	3.0	4,347
2	Magnetic resonance fingerprinting. <i>Nature</i> , 2013, 495, 187-192.	27.8	1,132
3	Dynamic autocalibrated parallel imaging using temporal GRAPPA (TGRAPPA). <i>Magnetic Resonance in Medicine</i> , 2005, 53, 981-985.	3.0	611
4	Controlled aliasing in parallel imaging results in higher acceleration (CAIPIRINHA) for multi-slice imaging. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 684-691.	3.0	512
5	Field-of-view limitations in parallel imaging. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 1118-1126.	3.0	490
6	Parallel MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 36, 55-72.	3.4	402
7	SMASH, SENSE, PILS, GRAPPA. <i>Topics in Magnetic Resonance Imaging</i> , 2004, 15, 223-236.	1.2	376
8	Controlled aliasing in volumetric parallel imaging (2D CAIPIRINHA). <i>Magnetic Resonance in Medicine</i> , 2006, 55, 549-556.	3.0	340
9	MR fingerprinting using fast imaging with steady state precession (FISP) with spiral readout. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1621-1631.	3.0	309
10	Partially parallel imaging with localized sensitivities (PILS). <i>Magnetic Resonance in Medicine</i> , 2000, 44, 602-609.	3.0	284
11	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.	6.7	223
12	Inversion recovery TrueFISP: Quantification of T1, T2, and spin density. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 661-667.	3.0	217
13	SVD Compression for Magnetic Resonance Fingerprinting in the Time Domain. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 2311-2322.	8.9	214
14	VD-AUTO-SMASH imaging. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 1066-1074.	3.0	210
15	Results of the NeuroBlate System first-in-humans Phase I clinical trial for recurrent glioblastoma. <i>Journal of Neurosurgery</i> , 2013, 118, 1202-1219.	1.6	202
16	MR fingerprinting for rapid quantification of myocardial $T_{1\rho}$, $T_{2\rho}$, and proton spin density. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1446-1458.	3.0	190
17	General formulation for quantitative G-factor calculation in GRAPPA reconstructions. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 739-746.	3.0	178
18	MR Fingerprinting for Rapid Quantitative Abdominal Imaging. <i>Radiology</i> , 2016, 279, 278-286.	7.3	169

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19	A brief review of parallel magnetic resonance imaging. <i>European Radiology</i> , 2003, 13, 2323-2337.	4.5	166
20	Enhanced Delivery of Chemotherapy to Tumors Using a Multicomponent Nanochain with Radio-Frequency-Tunable Drug Release. <i>ACS Nano</i> , 2012, 6, 4157-4168.	14.6	155
21	High-performance iron oxide nanoparticles for magnetic particle imaging " guided hyperthermia (hMPI). <i>Nanoscale</i> , 2016, 8, 12162-12169.	5.6	155
22	Resolution enhancement in single-shot imaging using simultaneous acquisition of spatial harmonics (SMASH). <i>Magnetic Resonance in Medicine</i> , 1999, 41, 1236-1245.	3.0	147
23	MR Fingerprinting of Adult Brain Tumors: Initial Experience. <i>American Journal of Neuroradiology</i> , 2017, 38, 492-499.	2.4	133
24	Slice profile and B_1 corrections in 2D magnetic resonance fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1781-1789.	3.0	131
25	Development of a Combined MR Fingerprinting and Diffusion Examination for Prostate Cancer. <i>Radiology</i> , 2017, 283, 729-738.	7.3	125
26	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.	3.0	123
27	Improved magnetic resonance fingerprinting reconstruction with low-rank and subspace modeling. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 933-942.	3.0	113
28	Fast 3D magnetic resonance fingerprinting for a whole-brain coverage. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2190-2197.	3.0	113
29	NMR probeheads for in vivo applications. <i>Concepts in Magnetic Resonance</i> , 2000, 12, 361-388.	1.3	103
30	Magnetic Particle Imaging Tracers: State-of-the-Art and Future Directions. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2509-2517.	4.6	102
31	Oxygen enhanced MR ventilation imaging of the lung. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1998, 7, 153-161.	2.0	96
32	Non-Cartesian data reconstruction using GRAPPA operator gridding (GROG). <i>Magnetic Resonance in Medicine</i> , 2007, 58, 1257-1265.	3.0	95
33	Signal-to-noise ratio and signal-to-noise efficiency in SMASH imaging. <i>Magnetic Resonance in Medicine</i> , 1999, 41, 1009-1022.	3.0	93
34	Improved radial GRAPPA calibration for real-time free-breathing cardiac imaging. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 492-505.	3.0	91
35	IR TrueFISP with a golden-ratio-based radial readout: Fast quantification of T_1 , T_2 , and proton density. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 71-81.	3.0	91
36	Holographic Reconstruction of Axonal Pathways in the Human Brain. <i>Neuron</i> , 2019, 104, 1056-1064.e3.	8.1	91

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37	SMASH IMAGING. Magnetic Resonance Imaging Clinics of North America, 1999, 7, 237-254.	1.1	91
38	Non-Cartesian parallel imaging reconstruction. Journal of Magnetic Resonance Imaging, 2014, 40, 1022-1040.	3.4	90
39	Optimal Experiment Design for Magnetic Resonance Fingerprinting: Cram�r-Rao Bound Meets Spin Dynamics. IEEE Transactions on Medical Imaging, 2019, 38, 844-861.	8.9	89
40	Pulmonary Disorders: Ventilation-Perfusion MR Imaging with Animal Models. Radiology, 1999, 213, 871-879.	7.3	87
41	Fast group matching for MR fingerprinting reconstruction. Magnetic Resonance in Medicine, 2015, 74, 523-528.	3.0	87
42	Non-invasive tumor decoding and phenotyping of cerebral gliomas utilizing multiparametric 18F-FET PET-MRI and MR Fingerprinting. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 1435-1445.	6.4	85
43	Virtual coil concept for improved parallel MRI employing conjugate symmetric signals. Magnetic Resonance in Medicine, 2009, 61, 93-102.	3.0	83
44	Multiscale reconstruction for MR fingerprinting. Magnetic Resonance in Medicine, 2016, 75, 2481-2492.	3.0	82
45	Parallel magnetic resonance imaging using the GRAPPA operator formalism. Magnetic Resonance in Medicine, 2005, 54, 1553-1556.	3.0	81
46	Direct parallel image reconstructions for spiral trajectories using GRAPPA. Magnetic Resonance in Medicine, 2006, 56, 317-326.	3.0	80
47	2D-GRAPPA-operator for faster 3D parallel MRI. Magnetic Resonance in Medicine, 2006, 56, 1359-1364.	3.0	78
48	Reproducibility and Repeatability of MR Fingerprinting Relaxometry in the Human Brain. Radiology, 2019, 292, 429-437.	7.3	78
49	CEST-FISP: A novel technique for rapid chemical exchange saturation transfer MRI at 7 T. Magnetic Resonance in Medicine, 2011, 65, 432-437.	3.0	75
50	Magnetic resonance fingerprinting – An overview. Current Opinion in Biomedical Engineering, 2017, 3, 56-66.	3.4	75
51	PARACEST MRI with improved temporal resolution. Magnetic Resonance in Medicine, 2009, 61, 399-408.	3.0	74
52	Accelerated volumetric MRI with a SENSE/GRAPPA combination. Journal of Magnetic Resonance Imaging, 2006, 24, 444-450.	3.4	70
53	Development of high-resolution 3D MR fingerprinting for detection and characterization of epileptic lesions. Journal of Magnetic Resonance Imaging, 2019, 49, 1333-1346.	3.4	70
54	Simultaneous T1 and T2 Brain Relaxometry in Asymptomatic Volunteers Using Magnetic Resonance Fingerprinting. Tomography, 2015, 1, 136-144.	1.8	68

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55	Peptide targeted tripod macrocyclic Gd(III) chelates for cancer molecular MRI. <i>Biomaterials</i> , 2013, 34, 7683-7693.	11.4	67
56	Recommendations towards standards for quantitative MRI (qMRI) and outstanding needs. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, e26-e39.	3.4	67
57	Cost-effectiveness of MR Imaging-guided Strategies for Detection of Prostate Cancer in Biopsy-Naive Men. <i>Radiology</i> , 2017, 285, 157-166.	7.3	66
58	Treatment of Invasive Brain Tumors Using a Chain-like Nanoparticle. <i>Cancer Research</i> , 2015, 75, 1356-1365.	0.9	63
59	Investigating and reducing the effects of confounding factors for robust T1 and T2 mapping with cardiac MR fingerprinting. <i>Magnetic Resonance Imaging</i> , 2018, 53, 40-51.	1.8	60
60	MR Fingerprinting and ADC Mapping for Characterization of Lesions in the Transition Zone of the Prostate Gland. <i>Radiology</i> , 2019, 292, 685-694.	7.3	59
61	Three-dimensional MR Fingerprinting for Quantitative Breast Imaging. <i>Radiology</i> , 2019, 290, 33-40.	7.3	59
62	Magnetic resonance fingerprinting Part 1: Potential uses, current challenges, and recommendations. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 675-692.	3.4	58
63	Improvements in multislice parallel imaging using radial CAIPIRINHA. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 1630-1637.	3.0	57
64	Self-calibrating GRAPPA operator gridding for radial and spiral trajectories. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 930-935.	3.0	55
65	Accelerated Cardiac Imaging Using the SMASH Technique. <i>Journal of Cardiovascular Magnetic Resonance</i> , 1999, 1, 153-157.	3.3	54
66	Resolution enhancement in lung ¹ H imaging using parallel imaging methods. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 391-394.	3.0	54
67	Accelerating magnetic resonance fingerprinting (MRF) using t-blipped simultaneous multislice (SMS) acquisition. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 2078-2085.	3.0	54
68	T1 mapping of the entire lung parenchyma: Influence of the respiratory phase in healthy individuals. <i>Journal of Magnetic Resonance Imaging</i> , 2005, 21, 759-764.	3.4	53
69	Rapid ¹ T ₁ mapping of mouse myocardium with saturation recovery look-locker method. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1296-1303.	3.0	53
70	Preclinical MR fingerprinting (MRF) at 7 T: effective quantitative imaging for rodent disease models. <i>NMR in Biomedicine</i> , 2015, 28, 384-394.	2.8	53
71	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.	3.0	51
72	Improved temporal resolution in cardiac imaging using through-time spiral GRAPPA. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 1682-1688.	3.0	49

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73	Low rank approximation methods for MR fingerprinting with large scale dictionaries. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2392-2400.	3.0	49
74	AUTO-SMASH: A self-calibrating technique for SMASH imaging. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1998, 7, 42-54.	2.0	48
75	Autocalibrated coil sensitivity estimation for parallel imaging. <i>NMR in Biomedicine</i> , 2006, 19, 316-324.	2.8	46
76	Treatment of cancer micrometastasis using a multicomponent chain-like nanoparticle. <i>Journal of Controlled Release</i> , 2014, 173, 51-58.	9.9	46
77	Music-based magnetic resonance fingerprinting to improve patient comfort during MRI examinations. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 2303-2314.	3.0	46
78	Modeling the Brownian relaxation of nanoparticle ferrofluids: Comparison with experiment. <i>Medical Physics</i> , 2013, 40, 022303.	3.0	43
79	Multiband phase-constrained parallel MRI. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 974-980.	3.0	43
80	Fast cardiac T_1 mapping in mice using a model-based compressed sensing method. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1127-1134.	3.0	42
81	Magnetic resonance fingerprinting review part 2: Technique and directions. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 993-1007.	3.4	42
82	Reconstruction of undersampled non-Cartesian data sets using pseudo-Cartesian GRAPPA in conjunction with GROG. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 1127-1137.	3.0	41
83	Bayesian estimation of multicomponent relaxation parameters in magnetic resonance fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 159-170.	3.0	40
84	Mixed reality as a time-efficient alternative to cadaveric dissection. <i>Medical Teacher</i> , 2020, 42, 896-901.	1.8	40
85	AIR-MRF: Accelerated iterative reconstruction for magnetic resonance fingerprinting. <i>Magnetic Resonance Imaging</i> , 2017, 41, 29-40.	1.8	39
86	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, 2142-2154.	4.2	38
87	Simultaneous multislice cardiac magnetic resonance fingerprinting using low rank reconstruction. <i>NMR in Biomedicine</i> , 2019, 32, e4041.	2.8	38
88	Clinical evaluation of CAIPIRINHA: Comparison against a GRAPPA standard. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 189-194.	3.4	37
89	A simple geometrical description of the TrueFISP ideal transient and steady-state signal. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 177-186.	3.0	36
90	Applications of Time-Resolved MR Angiography. <i>American Journal of Roentgenology</i> , 2011, 196, W613-W620.	2.2	36

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91	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.	5.8	36
92	Towards a Single-Sequence Neurologic Magnetic Resonance Imaging Examination: Multiple-Contrast Images From an IR TrueFISP Experiment. Investigative Radiology, 2004, 39, 767-774.	6.2	35
93	Zigzag sampling for improved parallel imaging. Magnetic Resonance in Medicine, 2008, 60, 474-478.	3.0	35
94	Myocardial perfusion MRI with sliding window conjugate gradient HYPR. Magnetic Resonance in Medicine, 2009, 62, 835-839.	3.0	35
95	Simultaneous multislice magnetic resonance fingerprinting (SMS-MRF) with direct spiral slice-GRAPPA (ds-SSG) reconstruction. Magnetic Resonance in Medicine, 2017, 77, 1966-1974.	3.0	35
96	Magnetic resonance fingerprinting with quadratic RF phase for measurement of T_2^* simultaneously with T_1 , T_2 , and T_2^* . Magnetic Resonance in Medicine, 2019, 81, 1849-1862.	3.0	35
97	Control of intravascular catheters using an array of active steering coils. Medical Physics, 2011, 38, 4215-4224.	3.0	34
98	Estimation of perfusion properties with MR Fingerprinting Arterial Spin Labeling. Magnetic Resonance Imaging, 2018, 50, 68-77.	1.8	34
99	Repeatability and reproducibility of 3D MR fingerprinting relaxometry measurements in normal breast tissue. Journal of Magnetic Resonance Imaging, 2019, 50, 1133-1143.	3.4	34
100	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, 365-373.	2.4	32
101	Magnetic Resonance Fingerprinting to Characterize Childhood and Young Adult Brain Tumors. Pediatric Neurosurgery, 2019, 54, 310-318.	0.7	32
102	Magnetic resonance field fingerprinting. Magnetic Resonance in Medicine, 2019, 81, 2347-2359.	3.0	32
103	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.	2.4	31
104	Simultaneous Mapping of T_1 and T_2 Using Cardiac Magnetic Resonance Fingerprinting in a Cohort of Healthy Subjects at 1.5T. Journal of Magnetic Resonance Imaging, 2020, 52, 1044-1052.	3.4	31
105	Radiomic analysis of magnetic resonance fingerprinting in adult brain tumors. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 683-693.	6.4	31
106	SMASH imaging with an eight element multiplexed RF coil array. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2000, 10, 93-104.	2.0	30
107	Ultra-fast and accurate assessment of cardiac function in rats using accelerated MRI at 9.4 Tesla. Magnetic Resonance in Medicine, 2008, 59, 636-641.	3.0	30
108	Free-Breathing Liver Perfusion Imaging Using 3-Dimensional Through-Time Spiral Generalized Autocalibrating Partially Parallel Acquisition Acceleration. Investigative Radiology, 2015, 50, 367-375.	6.2	30

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109	MR fingerprinting using the quick echo splitting <sc>NMR</sc> imaging technique. Magnetic Resonance in Medicine, 2017, 77, 979-988.	3.0	30
110	Parameter map error due to normal noise and aliasing artifacts in MR fingerprinting. Magnetic Resonance in Medicine, 2019, 81, 3108-3123.	3.0	30
111	Evaluation of left ventricular ejection fraction using through-time radial GRAPPA. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 79.	3.3	29
112	³¹ P magnetic resonance fingerprinting for rapid quantification of creatine kinase reaction rate <i>in vivo</i> . NMR in Biomedicine, 2017, 30, e3786.	2.8	29
113	A new supplement to gross anatomy dissection: HoloAnatomy. Medical Education, 2019, 53, 522-523.	2.1	29
114	Partial volume mapping using magnetic resonance fingerprinting. NMR in Biomedicine, 2019, 32, e4082.	2.8	29
115	Design analysis of an MPI human functional brain scanner. International Journal on Magnetic Particle Imaging, 2017, 3, .	1.0	29
116	Time-Resolved and Bolus-Chase MR Angiography of the Leg: Branching Pattern Analysis and Identification of Septocutaneous Perforators. American Journal of Roentgenology, 2010, 195, 858-864.	2.2	28
117	Functional burst imaging. Magnetic Resonance in Medicine, 1998, 40, 614-621.	3.0	27
118	Real-time imaging with radial GRAPPA: Implementation on a heterogeneous architecture for low-latency reconstructions. Magnetic Resonance Imaging, 2014, 32, 747-758.	1.8	27
119	Rapid volumetric T_1 mapping of the abdomen using three-dimensional through-time spiral GRAPPA. Magnetic Resonance in Medicine, 2016, 75, 1457-1465.	3.0	27
120	Dual Contrast - Magnetic Resonance Fingerprinting (DC-MRF): A Platform for Simultaneous Quantification of Multiple MRI Contrast Agents. Scientific Reports, 2017, 7, 8431.	3.3	27
121	Cardiac cine magnetic resonance fingerprinting for combined ejection fraction, T_1 and T_2 quantification. NMR in Biomedicine, 2020, 33, e4323.	2.8	27
122	A multicoil array designed for cardiac SMASH imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2000, 10, 105-113.	2.0	25
123	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.	3.3	25
124	Use of pattern recognition for unaliasing simultaneously acquired slices in simultaneous multislice MR fingerprinting. Magnetic Resonance in Medicine, 2017, 78, 1870-1876.	3.0	25
125	On-coil multiple channel transmit system based on class-D amplification and pre-amplification with current amplitude feedback. Magnetic Resonance in Medicine, 2013, 70, 276-289.	3.0	24
126	Assessment of Mixed-Reality Technology Use in Remote Online Anatomy Education. JAMA Network Open, 2020, 3, e2016271.	5.9	24

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127	Myocardial T ₁ and T ₂ 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.	3.0	24
128	Rapid 3D radial multi-echo functional magnetic resonance imaging. <i>NeuroImage</i> , 2010, 52, 1428-1443.	4.2	23
129	Treatment of Glioblastoma Using Multicomponent Silica Nanoparticles. <i>Advanced Therapeutics</i> , 2019, 2, 1900118.	3.2	23
130	Oxygen enhanced MR ventilation imaging of the lung. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1998, 7, 153-161.	2.0	22
131	Parallel transmit excitation at 1.5 T based on the minimization of a driving function for device heating. <i>Medical Physics</i> , 2015, 42, 359-371.	3.0	22
132	Self-calibrated trajectory estimation and signal correction method for robust radial imaging using GRAPPA operator gridding. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 883-896.	3.0	22
133	Quantitative High-Resolution Renal Perfusion Imaging Using 3-Dimensional Through-Time Radial Generalized Autocalibrating Partially Parallel Acquisition. <i>Investigative Radiology</i> , 2014, 49, 666-674.	6.2	21
134	Fast method for 1D non-cartesian parallel imaging using GRAPPA. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 1037-1046.	3.0	20
135	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, 868-873.	3.0	20
136	Transmit-receive coil-arrays at 7T, configurations for ¹ H, ²³ Na, and ³¹ P MRI. <i>Concepts in Magnetic Resonance Part B</i> , 2006, 29B, 20-27.	0.7	19
137	Parallel Imaging-Based Reduction of Acoustic Noise for Clinical Magnetic Resonance Imaging. <i>Investigative Radiology</i> , 2014, 49, 620-626.	6.2	19
138	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, 1420-1431.	3.0	19
139	Dynamic three-dimensional magnetic resonance abdominal angiography and perfusion: Implementation and preliminary experience. <i>Journal of Magnetic Resonance Imaging</i> , 2000, 11, 201-207.	3.4	18
140	Simultaneous magnetic resonance angiography and perfusion (MRAP) measurement: Initial application in lower extremity skeletal muscle. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 1237-1244.	3.4	18
141	Rapid time-resolved magnetic resonance angiography via a multiecho radial trajectory and GraDeS reconstruction. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 346-359.	3.0	17
142	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.	3.0	17
143	Three-dimensional through-time radial GRAPPA for renal MR angiography. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 864-874.	3.4	16
144	Automated design of pulse sequences for magnetic resonance fingerprinting using physics-inspired optimization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	16

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145	Molecular Imaging of Tumors Using a Quantitative T1 Mapping Technique via Magnetic Resonance Imaging. <i>Diagnostics</i> , 2015, 5, 318-332.	2.6	15
146	Active Detuning of MRI Receive Coils with GaN FETs. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015, 63, 4169-4177.	4.6	15
147	Fast magnetic resonance fingerprinting for dynamic contrast-enhanced studies in mice. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 2681-2690.	3.0	15
148	Feasibility of MR fingerprinting using a high-performance 0.55T MRI system. <i>Magnetic Resonance Imaging</i> , 2021, 81, 88-93.	1.8	15
149	Perspectives and Limitations of Parallel MR Imaging at High Field Strengths. <i>Neuroimaging Clinics of North America</i> , 2006, 16, 311-320.	1.0	14
150	Using the GRAPPA operator and the generalized sampling theorem to reconstruct undersampled non-Cartesian data. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 705-715.	3.0	14
151	Quantitative perfusion imaging of neoplastic liver lesions: A multi-institution study. <i>Scientific Reports</i> , 2018, 8, 4990.	3.3	14
152	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.	3.0	14
153	Free-Breathing Abdominal Magnetic Resonance Fingerprinting Using a Pilot Tone Navigator. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 54, 1138-1151.	3.4	14
154	Magnetic resonance fingerprinting: an overview. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 4189-4200.	6.4	14
155	NMR-microscopy with TrueFISP at 11.75T. <i>Journal of Magnetic Resonance</i> , 2003, 161, 252-257.	2.1	13
156	Free-breathing myocardial perfusion MRI using SW-CG-HYPR and motion correction. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1148-1154.	3.0	13
157	Temporal filtering effects in dynamic parallel MRI. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 192-198.	3.0	13
158	On-Command Drug Release from Nanochains Inhibits Growth of Breast Tumors. <i>Pharmaceutical Research</i> , 2014, 31, 1460-1468.	3.5	13
159	3D magnetic resonance fingerprinting with quadratic RF phase. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2084-2094.	3.0	13
160	Effect of contrast media on single-shot echo planar imaging: Implications for abdominal diffusion imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 1203-1208.	3.4	12
161	Single breath-hold 3D cardiac T_1 mapping using through-time spiral GRAPPA. <i>NMR in Biomedicine</i> , 2018, 31, e3923.	2.8	12
162	Rapid B_1 -Insensitive MR Fingerprinting for Quantitative Kidney Imaging. <i>Radiology</i> , 2021, 300, 380-387.	7.3	11

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163	<sc>MR</sc> Fingerprinting with \mathbf{k} -Tensor Encoding for Simultaneous Quantification of Relaxation and Diffusion in a Single Scan. Magnetic Resonance in Medicine, 2022, 88, 2043-2057.	3.0	11
164	Half-fourier BURST imaging on a clinical scanner. Magnetic Resonance in Medicine, 1997, 38, 534-540.	3.0	10
165	HTGRAPPA: Real-time \mathbf{k} -weighted image domain TGRAPPA reconstruction. Magnetic Resonance in Medicine, 2009, 61, 1425-1433.	3.0	10
166	Multiple Overlapping k -Space Junctions for Investigating Translating Objects (MOJITO). IEEE Transactions on Medical Imaging, 2010, 29, 339-349.	8.9	10
167	Accelerating time-resolved MRA with multiecho acquisition. Magnetic Resonance in Medicine, 2010, 63, 1520-1528.	3.0	10
168	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, 686-691.	2.2	10
169	MR Fingerprinting with chemical exchange (MRF-X) to quantify subvoxel T1 and extracellular volume fraction. Journal of Cardiovascular Magnetic Resonance, 2015, 17, W35.	3.3	10
170	Dynamic Quantitative T1 Mapping in Orthotopic Brain Tumor Xenografts. Translational Oncology, 2016, 9, 147-154.	3.7	10
171	MR fingerprinting for rapid quantification of myocardial T_1 , T_2 , and proton spin density. Magnetic Resonance in Medicine, 2017, 77, C1-C1.	3.0	10
172	Multicenter Repeatability and Reproducibility of <sc>MR</sc> Fingerprinting in Phantoms and in Prostatic Tissue. Magnetic Resonance in Medicine, 2022, 88, 1818-1827.	3.0	10
173	Identification and mitigation of interference sources present in SSB-based wireless MRI receiver arrays. Magnetic Resonance in Medicine, 2013, 70, 1775-1786.	3.0	9
174	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, 1680-1686.	3.0	9
175	Real-time free-breathing cardiac imaging with self-calibrated through-time radial GRAPPA. Magnetic Resonance in Medicine, 2017, 77, 250-264.	3.0	9
176	Active localization and tracking of needle and target in robotic image-guided intervention systems. Autonomous Robots, 2018, 42, 83-97.	4.8	9
177	A coil combination for magnetic resonance perfusion imaging of mice in vivo at 7 T. Review of Scientific Instruments, 2003, 74, 2843-2848.	1.3	8
178	Pacing in High Field Cardiac Magnetic Resonance Imaging: Implantation of a Permanent Pacemaker into a Rat. PACE - Pacing and Clinical Electrophysiology, 2004, 27, 671-674.	1.2	8
179	RT-GROG: parallelized self-calibrating GROG for real-time MRI. Magnetic Resonance in Medicine, 2010, 64, 306-312.	3.0	8
180	Double spiral array coil design for enhanced 3D parallel MRI at 1.5 Tesla. Concepts in Magnetic Resonance Part B, 2009, 35B, 67-79.	0.7	7

#	ARTICLE	IF	CITATIONS
181	Parallel excitation for B_1 -field insensitive fat-saturation preparation. Magnetic Resonance in Medicine, 2012, 68, 631-638.	3.0	7
182	Novel magnetomechanical MR compatible vibrational device for producing kinesthetic illusion during fMRI. Medical Physics, 2013, 40, 112303.	3.0	7
183	Multi-Turn Transmit Coil to Increase B_1 Efficiency in Current Source Amplification. Magnetic Resonance in Medicine, 2013, 69, 1180-1185.	3.0	7
184	Cardiac MR fingerprinting for T1 and T2 mapping in four heartbeats. Journal of Cardiovascular Magnetic Resonance, 2016, 18, W1.	3.3	7
185	Comparing learning retention in medical students using mixed-reality to supplement dissection: a preliminary study. International Journal of Medical Education, 2022, 13, 107-114.	1.2	7
186	Characterizing thalamic and basal ganglia nuclei in medically intractable focal epilepsy by ^{19}F MR fingerprinting. Epilepsia, 2022, 63, 1998-2010.	5.1	7
187	Characterization and reduction of saturation banding in multiplanar coherent and incoherent steady-state imaging. Magnetic Resonance in Medicine, 2010, 63, 1415-1421.	3.0	6
188	High efficiency radiofrequency power amplifier module for parallel transmit arrays at 3 Tesla. Magnetic Resonance in Medicine, 2017, 78, 1589-1598.	3.0	6
189	Simultaneous multislice magnetic resonance fingerprinting with low-rank and subspace modeling. , 2017, 2017, 3264-3268.		6
190	Dynamic, Simultaneous Concentration Mapping of Multiple MRI Contrast Agents with Dual Contrast - Magnetic Resonance Fingerprinting. Scientific Reports, 2019, 9, 19888.	3.3	6
191	Basic Reconstruction Algorithms for Parallel Imaging. , 2007, , 19-36.		6
192	T_1 -insensitive steady state imaging: A framework for purely T_2 -weighted TrueFISP. Magnetic Resonance in Medicine, 2012, 68, 409-420.	3.0	5
193	Device localization and dynamic scan plane selection using a wireless magnetic resonance imaging detector array. Magnetic Resonance in Medicine, 2014, 71, 2243-2249.	3.0	5
194	Auto-calibration approach for k-t SENSE. Magnetic Resonance in Medicine, 2014, 71, 1123-1129.	3.0	5
195	Cadaver vs. Microsoft HoloLens: A Comparison of Educational Outcomes of a Breast Anatomy Module. FASEB Journal, 2018, 32, 635.6.	0.5	5
196	Resolution enhanced T_1 -insensitive steady-state imaging. Magnetic Resonance in Medicine, 2012, 68, 421-429.	3.0	4
197	Lipid elimination with an echo-shifting $N/2$ -ghost acquisition (LEENA) MRI. Magnetic Resonance in Medicine, 2015, 73, 711-717.	3.0	4
198	Selective excitation localized by the Bloch-Siegert shift and a B_1+ gradient. Magnetic Resonance in Medicine, 2022, 88, 1081-1097.	3.0	4

#	ARTICLE	IF	CITATIONS
199	Through-time 3D radial GRAPPA for whole heart cardiac imaging. Journal of Cardiovascular Magnetic Resonance, 2012, 14, .	3.3	3
200	Quantifying Perfusion Properties with DCE-MRI Using a Dictionary Matching Approach. Scientific Reports, 2020, 10, 10210.	3.3	3
201	A System for Real-Time, Online Mixed-Reality Visualization of Cardiac Magnetic Resonance Images. Journal of Imaging, 2021, 7, 274.	3.0	3
202	A multicoil array designed for cardiac SMASH imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2000, 10, 105-113.	2.0	2
203	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, 819-824.	3.0	2
204	Magnetic particle spectroscopy of magnetite-polyethylene nanocomposite films: A novel sample for MPI tracer design. , 2013, , .		2
205	MR fingerprinting using fast imaging with steady state precession (FISP) with spiral readout. Magnetic Resonance in Medicine, 2015, 74, spcone-spcone.	3.0	2
206	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.	0.5	1
207	NI-07 * MAGNETIC RESONANCE FINGERPRINTING OF BRAIN TUMORS: INITIAL CLINICAL RESULTS. Neuro-Oncology, 2014, 16, v139-v139.	1.2	1
208	Accelerated delayed enhancement imaging of myocardial infarction with through-time radial GRAPPA. Journal of Cardiovascular Magnetic Resonance, 2014, 16, W6.	3.3	1
209	Inflection Points in Magnetic Resonance Imaging Technologyâ€”35 Years of Collaborative Research and Development. Investigative Radiology, 2015, 50, 645-656.	6.2	1
210	Authors and reviewers: Honesty and honor. Journal of Magnetic Resonance Imaging, 2015, 41, 557-557.	3.4	1
211	a-f BLAST: Non-Iterative Radial k-t BLAST Reconstruction for Real-Time Imaging. IEEE Transactions on Medical Imaging, 2019, 38, 775-790.	8.9	1
212	THE EFFECT OF RELAXATION ON MAGNETIC PARTICLE IMAGING. , 2010, , .		1
213	Differential Image Based Robot to MRI Scanner Registration with Active Fiducial Markers for an MRI-Guided Robotic Catheter System. , 2020, 2020, 2958-2964.		1
214	Halting the effects of flow enhancement with effective intermittent zeugmatographic encoding (HEFEWEIZEN) in SSFP. Journal of Magnetic Resonance Imaging, 2009, 29, 1163-1174.	3.4	0
215	Time-resolved myocardial perfusion MRI with reduced data acquisition window, improved spatial coverage, resolution and SNR. Journal of Cardiovascular Magnetic Resonance, 2009, 11, .	3.3	0
216	Real-time low-latency self-calibrating grog for interventional mri. Journal of Cardiovascular Magnetic Resonance, 2010, 12, .	3.3	0

#	ARTICLE	IF	CITATIONS
217	Time-efficient slab-selective water excitation for 3D MRI. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 127-136.	3.0	0
218	Triggered chemotherapeutic drug release from multi-component nanochains mediated by a local magnetic field. , 2013, , .		0
219	Development of high-resolution 3D MR fingerprinting for detection and characterization of epileptic lesions. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, spcone-spcone.	3.4	0
220	Parallel Imaging in Angiography. , 2012, , 185-198.		0
221	Differential Image Based Robot to MRI Scanner Registration with Active Fiducial Markers for an MRI-Guided Robotic Catheter System. <i>IEEE International Conference on Intelligent Robots and Systems</i> , 2020, 2020, 2958-2964.	0.6	0