

SPIRiT: Iterative self-consistent parallel imaging reconstruction
k-space

Magnetic Resonance in Medicine

64, 457-471

DOI: 10.1002/mrm.22428

Citation Report

#	ARTICLE	IF	CITATIONS
2	Improved Pediatric MR Imaging with Compressed Sensing. Radiology, 2010, 256, 607-616.	7.3	219
3	Compass: a joint framework for Parallel Imaging and Compressive Sensing in MRI. , 2010, , .		12
4	Practical parallel imaging compressed sensing MRI: Summary of two years of experience in accelerating body MRI of pediatric patients. , 2011, 2011, 1039-1043.		130
5	â„“1 Minimization in â„“1-SPIRiT Compressed Sensing MRI Reconstruction. , 2011, , 723-735.		1
6	Resonant Mode Reduction in Radiofrequency Volume Coils for Ultrahigh Field Magnetic Resonance Imaging. Materials, 2011, 4, 1333-1344.	2.9	16
7	Fast Undersampled Functional Magnetic Resonance Imaging Using Nonlinear Regularized Parallel Image Reconstruction. PLoS ONE, 2011, 6, e28822.	2.5	52
8	Augmented Lagrangian based reconstruction of non-uniformly sub-Nyquist sampled MRI data. Signal Processing, 2011, 91, 2731-2742.	3.7	35
9	Computational Acceleration for MR Image Reconstruction in Partially Parallel Imaging. IEEE Transactions on Medical Imaging, 2011, 30, 1055-1063.	8.9	58
10	Guest Editorial Compressive Sensing for Biomedical Imaging. IEEE Transactions on Medical Imaging, 2011, 30, 1013-1016.	8.9	40
11	Adapted random sampling patterns for accelerated MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2011, 24, 43-50.	2.0	103
12	Novel 16â€channel receive coil array for accelerated upper airway MRI at 3 Tesla. Magnetic Resonance in Medicine, 2011, 65, 1711-1717.	3.0	17
13	Fast concomitant gradient field and field inhomogeneity correction for spiral cardiac imaging. Magnetic Resonance in Medicine, 2011, 66, 390-401.	3.0	13
14	Lowâ€dimensionalâ€structure selfâ€learning and thresholding: Regularization beyond compressed sensing for MRI Reconstruction. Magnetic Resonance in Medicine, 2011, 66, 756-767.	3.0	120
15	Generalized GRAPPA operators for wider spiral bands: Rapid selfâ€calibrated parallel reconstruction for variable density spiral MRI. Magnetic Resonance in Medicine, 2011, 66, 1067-1078.	3.0	10
16	Compressedâ€sensing motion compensation (CosMo): A joint prospectiveâ€retrospective respiratory navigator for coronary MRI. Magnetic Resonance in Medicine, 2011, 66, 1674-1681.	3.0	22
17	Spatially encoded phaseâ€contrast MRIâ€3D MRI movies of 1D and 2D structures at millisecond resolution. Magnetic Resonance in Medicine, 2011, 66, 950-956.	3.0	4
18	Rapid flow quantification in iliac arteries with spiral phase-contrast MRI. , 2011, 2011, 2804-8.		4
19	Parallel magnetic resonance imaging with localized arrays and Sinc interpolation (PILARS). , 2011, , .		0

#	ARTICLE	IF	CITATIONS
20	High-Performance 3D Compressive Sensing MRI Reconstruction Using Many-Core Architectures. International Journal of Biomedical Imaging, 2011, 2011, 1-11.	3.9	23
21	Rapid Pediatric Cardiac Assessment of Flow and Ventricular Volume With Compressed Sensing Parallel Imaging Volumetric Cine Phase-Contrast MRI. American Journal of Roentgenology, 2012, 198, W250-W259.	2.2	92
22	Evaluation of Valvular Insufficiency and Shunts with Parallel-imaging Compressed-sensing 4D Phase-contrast MR Imaging with Stereoscopic 3D Velocity-fusion Volume-rendered Visualization. Radiology, 2012, 265, 87-95.	7.3	78
23	Parallel imaging acceleration of spiral Fourier velocity encoded MRI using SPIRiT. , 2012, 2012, 416-9.		2
24	Non-uniform sparsity in rapid compressive sensing MRI. , 2012, , .		7
25	Sparse methods for biomedical data. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2012, 14, 4-15.	4.0	62
26	SCâ€GRAPPA: Selfâ€constraint noniterative GRAPPA reconstruction with closedâ€form solution. Medical Physics, 2012, 39, 7686-7693.	3.0	3
28	Fast \$ell_1\$-SPIRiT Compressed Sensing Parallel Imaging MRI: Scalable Parallel Implementation and Clinically Feasible Runtime. IEEE Transactions on Medical Imaging, 2012, 31, 1250-1262.	8.9	246
29	Simultaneous image reconstruction and sensitivity estimation in parallel MRI using blind compressed sensing. , 2012, , .		1
30	Iterative estimation of MRI sensitivity maps and image based on sense reconstruction method (<i>i</i>sense). Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2012, 40A, 269-280.	0.5	8
31	k-t CSPI: A dynamic MRI reconstruction framework for combining compressed sensing and parallel imaging. , 2012, , .		5
32	HYR ² PICS: Hybrid regularized reconstruction for combined parallel imaging and compressive sensing in MRI. , 2012, , .		5
33	A kernel approach to compressed sensing parallel MRI. , 2012, , .		1
34	Accelerated parallel magnetic resonance imaging reconstruction using joint estimation with a sparse signal model. , 2012, , .		2
35	MRI reconstruction through Compressed Sensing using Principle Component Analysis (PCA). , 2012, , .		0
36	The role of nonlinear gradients in parallel imaging: A kâ€space based analysis. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2012, 40A, 253-267.	0.5	15
37	Universal and efficient compressed sensing by spread spectrum and application to realistic Fourier imaging techniques. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.7	31
38	Calibration-Less Multi-coil MR image reconstruction. Magnetic Resonance Imaging, 2012, 30, 1032-1045.	1.8	71

#	ARTICLE	IF	CITATIONS
39	Accelerated 3D MERGE carotid imaging using compressed sensing with a hidden markov tree model. Journal of Magnetic Resonance Imaging, 2012, 36, 1194-1202.	3.4	18
40	A hybrid method for more efficient channel-by-channel reconstruction with many channels. Magnetic Resonance in Medicine, 2012, 67, 835-843.	3.0	10
41	Parallel magnetic resonance imaging using localized receive arrays with sinc interpolation (PILARS). Magnetic Resonance in Medicine, 2012, 67, 1114-1119.	3.0	0
42	Improved least squares MR image reconstruction using estimates of ℓ_1 Space data consistency. Magnetic Resonance in Medicine, 2012, 67, 1600-1608.	3.0	42
43	ℓ_1 sparse GROWL: Sequential combination of partially parallel imaging and compressed sensing in ℓ_1 space using flexible virtual coil. Magnetic Resonance in Medicine, 2012, 68, 772-782.	3.0	9
44	Denoising sparse images from GRAPPA using the nullspace method. Magnetic Resonance in Medicine, 2012, 68, 1176-1189.	3.0	18
45	Correlation imaging for multiscan MRI with parallel data acquisition. Magnetic Resonance in Medicine, 2012, 68, 2005-2017.	3.0	20
46	Accelerated contrast-enhanced whole-heart coronary MRI using low-dimensional structure self-learning and thresholding. Magnetic Resonance in Medicine, 2012, 67, 1434-1443.	3.0	29
47	Inverse field-based approach for simultaneous B1 mapping at high fields – A phantom based study. Journal of Magnetic Resonance, 2012, 217, 27-35.	2.1	8
48	An image space approach to Cartesian based parallel MR imaging with total variation regularization. Medical Image Analysis, 2012, 16, 189-200.	11.6	14
49	Nuclear norm-regularized SENSE reconstruction. Magnetic Resonance Imaging, 2012, 30, 213-221.	1.8	14
50	Spread Spectrum Magnetic Resonance Imaging. IEEE Transactions on Medical Imaging, 2012, 31, 586-598.	8.9	86
51	Parallel imaging with nonlinear reconstruction using variational penalties. Magnetic Resonance in Medicine, 2012, 67, 34-41.	3.0	81
52	Compressed Sensing multispectral imaging of the postoperative spine. Journal of Magnetic Resonance Imaging, 2013, 37, 243-248.	3.4	54
53	Compressed sensing reconstruction for whole-heart imaging with 3D radial trajectories: A graphics processing unit implementation. Magnetic Resonance in Medicine, 2013, 69, 91-102.	3.0	62
54	Coil compression for accelerated imaging with Cartesian sampling. Magnetic Resonance in Medicine, 2013, 69, 571-582.	3.0	185
55	Chemical shift encoded water-fat separation using parallel imaging and compressed sensing. Magnetic Resonance in Medicine, 2013, 69, 456-466.	3.0	20
56	Free-breathing multiphase whole-heart coronary MR angiography using image-based navigators and three-dimensional cones imaging. Magnetic Resonance in Medicine, 2013, 69, 1083-1093.	3.0	69

#	ARTICLE	IF	CITATIONS
57	Non-contrast-enhanced renal and abdominal MR angiography using velocity-selective inversion preparation. Magnetic Resonance in Medicine, 2013, 69, 1268-1275.	3.0	41
58	SENSE with improved tolerance to inaccuracies in coil sensitivity maps. Magnetic Resonance in Medicine, 2013, 69, 1665-1669.	3.0	15
59	Reconstruction of undersampled radial PatLoc imaging using total generalized variation. Magnetic Resonance in Medicine, 2013, 70, 40-52.	3.0	23
60	Accelerated 4D flow imaging with variable-density cartesian undersampling and parallel imaging reconstruction. Journal of Cardiovascular Magnetic Resonance, 2013, 15, P11.	3.3	0
61	Calibrationless Parallel MRI with Joint Total Variation Regularization. Lecture Notes in Computer Science, 2013, 16, 106-114.	1.3	29
62	High spatial and temporal resolution retrospective cine cardiovascular magnetic resonance from shortened free breathing real-time acquisitions. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 102.	3.3	75
63	Sparsity-Promoting Calibration for GRAPPA Accelerated Parallel MRI Reconstruction. IEEE Transactions on Medical Imaging, 2013, 32, 1325-1335.	8.9	67
64	Parallel magnetic resonance imaging reconstruction by convex optimization. , 2013, , .		2
65	MRI of fast-relaxing spins. Journal of Magnetic Resonance, 2013, 229, 49-54.	2.1	21
66	The Agile Library for Biomedical Image Reconstruction Using GPU Acceleration. Computing in Science and Engineering, 2013, 15, 34-44.	1.2	15
67	Nonlocal Transform-Domain Filter for Volumetric Data Denoising and Reconstruction. IEEE Transactions on Image Processing, 2013, 22, 119-133.	9.8	665
68	A simple application of compressed sensing to further accelerate partially parallel imaging. Magnetic Resonance Imaging, 2013, 31, 75-85.	1.8	13
69	Low-rank + sparse (L+S) reconstruction for accelerated dynamic MRI with separation of background and dynamic components. , 2013, , .		8
70	Compressive sensing with dispersion compensation on non-linear wavenumber sampled spectral domain optical coherence tomography. Biomedical Optics Express, 2013, 4, 1519.	2.9	18
71	Exploiting local low-rank structure in higher-dimensional MRI applications. Proceedings of SPIE, 2013, , .	0.8	11
72	Calibrationless Parallel Magnetic Resonance Imaging: A Joint Sparsity Model. Sensors, 2013, 13, 16714-16735.	3.8	10
73	Accelerated T2*-compensated fat fraction quantification using a joint parallel imaging and compressed sensing framework. Journal of Magnetic Resonance Imaging, 2013, 38, 1267-1275.	3.4	15
74	Blind parallel MRI reconstruction with arbitrary k-space trajectories. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
75	Venous and arterial flow quantification are equally accurate and precise with parallel imaging compressed sensing 4D phase contrast MRI. Journal of Magnetic Resonance Imaging, 2013, 37, 1419-1426.	3.4	82
76	Locally Sparsified Compressive Sensing for Improved MR Image Quality. , 2013, , .		1
77	Improved visualization and quantification of 4D flow MRI data using divergence-free wavelet denoising. , 2013, , .		3
78	Nonlinear coil sensitivity estimation for parallel magnetic resonance imaging using data-adaptive steering kernel regression method. , 2013, 2013, 1096-9.		0
79	High-frequency subband compressed sensing MRI using quadruplet sampling. Magnetic Resonance in Medicine, 2013, 70, 1306-1318.	3.0	16
80	32-channel phased-array receive with asymmetric birdcage transmit coil for hyperpolarized xenon-129 lung imaging. Magnetic Resonance in Medicine, 2013, 70, 576-583.	3.0	22
81	Evaluation of partial k-space strategies to speed up time-domain EPR imaging. Magnetic Resonance in Medicine, 2013, 70, 745-753.	3.0	9
82	Suppressing Multi-Channel Ultra-Low-Field MRI Measurement Noise Using Data Consistency and Image Sparsity. PLoS ONE, 2013, 8, e61652.	2.5	6
83	Compressed Sensing MRI: A Review. Critical Reviews in Biomedical Engineering, 2013, 41, 183-204.	0.9	83
84	Single Echo MRI. PLoS ONE, 2014, 9, e86008.	2.5	6
85	Automatic High-Bandwidth Calibration and Reconstruction of Arbitrarily Sampled Parallel MRI. PLoS ONE, 2014, 9, e98937.	2.5	3
86	Sparse BLIP: BLind Iterative Parallel imaging reconstruction using compressed sensing. Magnetic Resonance in Medicine, 2014, 71, 645-660.	3.0	26
87	GESPIRiT: ESPIRiT combined with GRAPPA while autocalibration data is insufficient. , 2014, , .		0
88	Investigating the quantitative fidelity of prospectively undersampled chemical shift imaging in muscular dystrophy with compressed sensing and parallel imaging reconstruction. Magnetic Resonance in Medicine, 2014, 72, 1610-1619.	3.0	35
89	Clinical performance of contrast enhanced abdominal pediatric MRI with fast combined parallel imaging compressed sensing reconstruction. Journal of Magnetic Resonance Imaging, 2014, 40, 13-25.	3.4	79
90	PCLR: Phase-constrained low-rank model for compressive diffusion-weighted MRI. Magnetic Resonance in Medicine, 2014, 72, 1330-1341.	3.0	28
91	Calibrationless parallel imaging reconstruction based on structured low-rank matrix completion. Magnetic Resonance in Medicine, 2014, 72, 959-970.	3.0	286
92	CT substitutes derived from MR images reconstructed with parallel imaging. Medical Physics, 2014, 41, 082302.	3.0	22

#	ARTICLE	IF	CITATIONS
93	Functional assessment of the mouse heart by MRI with a 1-min acquisition. NMR in Biomedicine, 2014, 27, 733-737.	2.8	10
94	Radial SPIRiT : Autocalibrated parallel imaging for generalized phase-contrast MRI. Magnetic Resonance in Medicine, 2014, 72, 1233-1245.	3.0	9
95	Fast image reconstruction with L_2 -regularization. Journal of Magnetic Resonance Imaging, 2014, 40, 181-191.	3.4	125
96	Accelerated free breathing ECG triggered contrast enhanced pulmonary vein magnetic resonance angiography using compressed sensing. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 91.	3.3	15
97	Magnetic resonance image reconstruction from undersampled measurements using a patch-based nonlocal operator. Medical Image Analysis, 2014, 18, 843-856.	11.6	274
98	ESPIRiT: an eigenvalue approach to autocalibrating parallel MRI: Where SENSE meets GRAPPA. Magnetic Resonance in Medicine, 2014, 71, 990-1001.	3.0	864
99	High-resolution, real-time exercise stress cine. Journal of Cardiovascular Magnetic Resonance, 2014, 16, W14.	3.3	0
100	Sub-30 ms real-time, free-breathing cardiac imaging with SPIRiT. Journal of Cardiovascular Magnetic Resonance, 2014, 16, W2.	3.3	1
101	High spatial and temporal resolution dynamic contrast-enhanced magnetic resonance angiography using compressed sensing with magnitude image subtraction. Magnetic Resonance in Medicine, 2014, 71, 1771-1783.	3.0	35
102	Highly accelerated Bloch-Siegert mapping using joint autocalibrated parallel image reconstruction. Magnetic Resonance in Medicine, 2014, 71, 1470-1477.	3.0	9
103	Motion-compensated compressed sensing for dynamic contrast-enhanced MRI using regional spatiotemporal sparsity and region tracking: Block low-rank sparsity with motion-guidance (BLOSM). Magnetic Resonance in Medicine, 2014, 72, 1028-1038.	3.0	56
104	Exploiting the wavelet structure in compressed sensing MRI. Magnetic Resonance Imaging, 2014, 32, 1377-1389.	1.8	49
105	Stationary wavelet transform for under-sampled MRI reconstruction. Magnetic Resonance Imaging, 2014, 32, 1353-1364.	1.8	25
106	Non-Cartesian parallel imaging reconstruction. Journal of Magnetic Resonance Imaging, 2014, 40, 1022-1040.	3.4	90
107	Augmented Lagrangian with Variable Splitting for Faster Non-Cartesian ℓ_1 -SPIRiT MR Image Reconstruction. IEEE Transactions on Medical Imaging, 2014, 33, 351-361.	8.9	41
108	Two-Dimensional Compressed Sensing Using the Cross-sampling Approach for Low-Field MRI Systems. IEEE Transactions on Medical Imaging, 2014, 33, 1905-1912.	8.9	9
109	Low-Rank Modeling of Local k -Space Neighborhoods (LORAKS) for Constrained MRI. IEEE Transactions on Medical Imaging, 2014, 33, 668-681.	8.9	225
110	Accelerated magnetic resonance imaging using the sparsity of multi-channel coil images. Magnetic Resonance Imaging, 2014, 32, 175-183.	1.8	9

#	ARTICLE	IF	CITATIONS
111	Improved l1-SPIRiT using 3D walsh transform-based sparsity basis. Magnetic Resonance Imaging, 2014, 32, 924-933.	1.8	6
112	Correlation imaging with arbitrary sampling trajectories. Magnetic Resonance Imaging, 2014, 32, 551-562.	1.8	4
113	Monte Carlo SURE-based parameter selection for parallel magnetic resonance imaging reconstruction. Magnetic Resonance in Medicine, 2014, 71, 1760-1770.	3.0	22
114	MR Imaging Artifacts and Parallel Imaging Techniques with Calibration Scanning: A New Twist on Old Problems. Radiographics, 2014, 34, 532-548.	3.3	26
115	Highly accelerated aortic 4D flow MR imaging with variable-density random undersampling. Magnetic Resonance Imaging, 2014, 32, 1012-1020.	1.8	17
116	Nuclear norm-regularized k-space-based parallel imaging reconstruction. , 2014, , .		0
117	Accelerating sequences in the presence of metal by exploiting the spatial distribution of off-resonance. Magnetic Resonance in Medicine, 2014, 72, 1658-1667.	3.0	11
118	Real-time 3D magnetic resonance imaging of the pharyngeal airway in sleep apnea. Magnetic Resonance in Medicine, 2014, 71, 1501-1510.	3.0	35
119	Rapid single-breath-hold 3D late gadolinium enhancement cardiac MRI using a stack of spirals acquisition. Journal of Magnetic Resonance Imaging, 2014, 40, 1496-1502.	3.4	26
120	Corrected water-fat imaging using compressed sensing and parallel imaging. Magnetic Resonance in Medicine, 2014, 71, 608-616.	3.0	22
121	Accelerated MR diffusion tensor imaging using distributed compressed sensing. Magnetic Resonance in Medicine, 2014, 71, 763-772.	3.0	43
122	Recon++: A concurrent, object-oriented API for statistical image reconstruction. , 2014, , .		0
123	Free-breathing 3D late gadolinium enhancement imaging of the left ventricle using a stack of spirals at 3T. Journal of Magnetic Resonance Imaging, 2015, 41, 1030-1037.	3.4	8
124	Low-Cost High-Performance MRI. Scientific Reports, 2015, 5, 15177.	3.3	189
125	Multi-Coil Parallel MRI Reconstruction. , 0, , 86-119.		1
126	Accuracy of UTE-MRI-based patient setup for brain cancer radiation therapy. Medical Physics, 2015, 43, 262-267.	3.0	18
127	Parallel imaging via sparse representation over a learned dictionary. , 2015, , .		5
128	A review of 3D first-pass, whole-heart, myocardial perfusion cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 68.	3.3	43

#	ARTICLE	IF	CITATIONS
129	Reducing viewâ€sharing using compressed sensing in timeâ€resolved contrastâ€enhanced magnetic resonance angiography. Magnetic Resonance in Medicine, 2015, 74, 474-481.	3.0	20
130	Nonâ€contrastâ€enhanced peripheral angiography using a sliding interleaved cylinder acquisition. Magnetic Resonance in Medicine, 2015, 74, 727-738.	3.0	3
131	Cerebrovascular MRI: a review of stateâ€ofâ€theâ€art approaches, methods and techniques. NMR in Biomedicine, 2015, 28, 767-791.	2.8	38
132	Evaluating the Role of Reduced Oxygen Saturation and Vascular Damage in Traumatic Brain Injury Using Magnetic Resonance Perfusion-Weighted Imaging and Susceptibility-Weighted Imaging and Mapping. Topics in Magnetic Resonance Imaging, 2015, 24, 253-265.	1.2	11
133	GRAPPA reconstruction with spatially varying calibration of selfâ€constraint. Magnetic Resonance in Medicine, 2015, 74, 1057-1069.	3.0	3
134	Combining parallel detection of proton echo planar spectroscopic imaging (PEPSI) measurements with a data-consistency constraint improves SNR. NMR in Biomedicine, 2015, 28, 1678-1687.	2.8	0
135	Patch based reconstruction of undersampled data (PROUD) for high signal-to-noise ratio and high frame rate contrast enhanced liver imaging. Magnetic Resonance in Medicine, 2015, 74, 1587-1597.	3.0	7
136	Accelerating parameter mapping with a locally low rank constraint. Magnetic Resonance in Medicine, 2015, 73, 655-661.	3.0	171
137	Fast pediatric 3D freeâ€breathing abdominal dynamic contrast enhanced MRI with high spatiotemporal resolution. Journal of Magnetic Resonance Imaging, 2015, 41, 460-473.	3.4	80
138	Sliding time of flight: Sliding time of flight MR angiography using a dynamic image reconstruction method. Magnetic Resonance in Medicine, 2015, 73, 1177-1183.	3.0	3
139	Fast GRAPPA reconstruction with random projection. Magnetic Resonance in Medicine, 2015, 74, 71-80.	3.0	10
140	Highâ€resolution variableâ€density 3D cones coronary MRA. Magnetic Resonance in Medicine, 2015, 74, 614-621.	3.0	35
141	Combined dynamic contrast-enhanced liver MRI and MRA using interleaved variable density sampling. Magnetic Resonance in Medicine, 2015, 73, 973-983.	3.0	7
142	Seven-Tesla MRI and neuroimaging biomarkers for Alzheimerâ€™s disease. Neurosurgical Focus, 2015, 39, E4.	2.3	12
143	Edge sharpness assessment by parametric modeling: Application to magnetic resonance imaging. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2015, 44, 138-149.	0.5	30
144	Ultra-short echo-time pulmonary MRI: Evaluation and reproducibility in COPD subjects with and without bronchiectasis. Journal of Magnetic Resonance Imaging, 2015, 41, 1465-1474.	3.4	61
145	Free-breathing pediatric MRI with nonrigid motion correction and acceleration. Journal of Magnetic Resonance Imaging, 2015, 42, 407-420.	3.4	117
146	Improved quantification and mapping of anomalous pulmonary venous flow with fourâ€dimensional phaseâ€contrast MRI and interactive streamline rendering. Journal of Magnetic Resonance Imaging, 2015, 42, 1765-1776.	3.4	19

#	ARTICLE	IF	CITATIONS
147	Noncontrast peripheral MRA with spiral echo train imaging. Magnetic Resonance in Medicine, 2015, 73, 1026-1033.	3.0	8
148	Wavelet-CAIPI for highly accelerated 3D imaging. Magnetic Resonance in Medicine, 2015, 73, 2152-2162.	3.0	180
149	Wavelet-space correlation imaging for high-speed MRI without motion monitoring or data segmentation. Magnetic Resonance in Medicine, 2015, 74, 1574-1586.	3.0	5
150	Inlet and outlet valve flow and regurgitant volume may be directly and reliably quantified with accelerated, volumetric phase-contrast MRI. Journal of Magnetic Resonance Imaging, 2015, 41, 376-385.	3.4	48
151	Technological Innovations in Magnetic Resonance for Early Detection of Cardiovascular Diseases. Current Pharmaceutical Design, 2015, 22, 77-89.	1.9	5
152	Multichannel Compressive Sensing MRI Using Noiselet Encoding. PLoS ONE, 2015, 10, e0126386.	2.5	18
153	Reduced-dose and high-speed acquisition strategies for multi-dimensional electron microscopy. Advanced Structural and Chemical Imaging, 2015, 1, .	4.0	37
154	Accelerate single-shot data acquisitions using compressed sensing and FRONSAC imaging. , 2015, , .		1
155	Optimal parallel MRI reconstruction over a convex solution space. , 2015, , .		0
156	Vectorial non-local total variation regularization for calibration-free parallel MRI reconstruction. , 2015, , .		2
157	Reconstruction of highly under-sampled dynamic MRI using sparse representation of 1D temporal snippets. , 2015, , .		2
158	Radiotherapy planning using MRI. Physics in Medicine and Biology, 2015, 60, R323-R361.	3.0	268
159	Accelerated MRI thermometry by direct estimation of temperature from undersampled k-space data. Magnetic Resonance in Medicine, 2015, 73, 1914-1925.	3.0	36
160	Robust 4D flow denoising using divergence-free wavelet transform. Magnetic Resonance in Medicine, 2015, 73, 828-842.	3.0	46
161	Accelerated MR parameter mapping with low-rank and sparsity constraints. Magnetic Resonance in Medicine, 2015, 74, 489-498.	3.0	140
162	Variable density incoherent spatiotemporal acquisition (VISTA) for highly accelerated cardiac MRI. Magnetic Resonance in Medicine, 2015, 74, 1266-1278.	3.0	43
163	Parallel imaging and compressed sensing combined framework for accelerating high-resolution diffusion tensor imaging using inter-image correlation. Magnetic Resonance in Medicine, 2015, 73, 1775-1785.	3.0	45
164	PROMISE: Parallel-imaging and compressed-sensing reconstruction of multicontrast imaging using Sharable information. Magnetic Resonance in Medicine, 2015, 73, 523-535.	3.0	33

#	ARTICLE	IF	CITATIONS
165	Improving the robustness of 3D turbo spin echo imaging to involuntary motion. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2015, 28, 329-345.	2.0	17
166	An L1-norm phase constraint for half-Fourier compressed sensing in 3D MR imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2015, 28, 459-472.	2.0	16
167	RARE/turbo spin echo imaging with simultaneous multislice Wave-CAIPI. Magnetic Resonance in Medicine, 2015, 73, 929-938.	3.0	68
168	Rapid 3D dynamic arterial spin labeling with a sparse model-based image reconstruction. NeuroImage, 2015, 121, 205-216.	4.2	27
169	Accelerated dynamic cardiac MRI exploiting sparse-Kalman-smoother self-calibration and reconstruction (kâ€™%â€™%â€™%â€™%â€™%tSPARKS). Physics in Medicine and Biology, 2015, 60, 3655-3671.	3.0	2
170	Multi-Dimensional Flow-Preserving Compressed Sensing (MuFloCoS) for Time-Resolved Velocity-Encoded Phase Contrast MRI. IEEE Transactions on Medical Imaging, 2015, 34, 400-414.	8.9	16
171	Parallel magnetic resonance imaging as approximation in a reproducing kernel Hilbert space. Inverse Problems, 2015, 31, 045008.	2.0	7
173	Compressive sensing in medical imaging. Applied Optics, 2015, 54, C23.	1.8	138
174	Combining Compressed Sensing with motion correction in acquisition and reconstruction for PET/MR. , 2015, , .		2
175	Compressed sensing MRI: a review of the clinical literature. British Journal of Radiology, 2015, 88, 20150487.	2.2	264
176	Clinical performance of a free-breathing spatiotemporally accelerated 3-D time-resolved contrast-enhanced pediatric abdominal MR angiography. Pediatric Radiology, 2015, 45, 1635-1643.	2.0	13
177	Quality Improvement Guidelines for Adult Diagnostic Cervicocerebral Angiography: Update Cooperative Study between the Society of Interventional Radiology (SIR), American Society of Neuroradiology (ASNR), and Society of NeuroInterventional Surgery (SNIS). Journal of Vascular and Interventional Radiology. 2015, 26, 1596-1608.	0.5	14
178	Dictionary learning for compressive parameter mapping in magnetic resonance imaging. Proceedings of SPIE, 2015, , .	0.8	0
179	Reducing acquisition time in clinical MRI by data undersampling and compressed sensing reconstruction. Physics in Medicine and Biology, 2015, 60, R297-R322.	3.0	170
180	Basic Principles of Cardiovascular MRI. , 2015, , .		6
181	Fast reconstruction for multichannel compressed sensing using a hierarchically semiseparable solver. Magnetic Resonance in Medicine, 2015, 73, 1034-1040.	3.0	14
182	Low-rank plus sparse matrix decomposition for accelerated dynamic MRI with separation of background and dynamic components. Magnetic Resonance in Medicine, 2015, 73, 1125-1136.	3.0	496
183	Incorporating reference in parallel imaging and compressed sensing. Magnetic Resonance in Medicine, 2015, 73, 1490-1504.	3.0	11

#	ARTICLE	IF	CITATIONS
184	Distributed MRI reconstruction using gadgetron-based cloud computing. Magnetic Resonance in Medicine, 2015, 73, 1015-1025.	3.0	50
185	Complex difference constrained compressed sensing reconstruction for accelerated PRF thermometry with application to MRI-induced RF heating. Magnetic Resonance in Medicine, 2015, 73, 1420-1431.	3.0	19
186	Evaluation of Variable Density and Data-Driven K-Space Undersampling for Compressed Sensing Magnetic Resonance Imaging. Investigative Radiology, 2016, 51, 410-419.	6.2	29
187	Fast temperature estimation from undersampled k-space with fully-sampled center for MR guided microwave ablation. Magnetic Resonance Imaging, 2016, 34, 1171-1180.	1.8	6
188	Evaluation of optimized breath-hold and free-breathing 3D ultrashort echo time contrast agent-free MRI of the human lung. Journal of Magnetic Resonance Imaging, 2016, 43, 1230-1238.	3.4	22
189	Diagnostic quality assessment of compressed sensing accelerated magnetic resonance neuroimaging. Journal of Magnetic Resonance Imaging, 2016, 44, 433-444.	3.4	19
190	MR Image Reconstruction Using a Combination of Compressed Sensing and Partial Fourier Acquisition: ESPrESSo. IEEE Transactions on Medical Imaging, 2016, 35, 2447-2458.	8.9	38
191	Improved dynamic parallel imaging coil calibration method robust to respiratory motion with application to first-pass contrast-enhanced myocardial perfusion imaging. Magnetic Resonance in Medicine, 2016, 75, 2315-2323.	3.0	1
192	Segmented golden ratio radial reordering with variable temporal resolution for dynamic cardiac MRI. Magnetic Resonance in Medicine, 2016, 76, 94-103.	3.0	15
193	Comparison of phase-constrained parallel MRI approaches: Analogies and differences. Magnetic Resonance in Medicine, 2016, 75, 1086-1099.	3.0	23
194	Identification and reduction of image artifacts in non-contrast-enhanced velocity-selective peripheral angiography at 3T. Magnetic Resonance in Medicine, 2016, 76, 466-477.	3.0	32
195	First-pass myocardial perfusion imaging with whole-heart coverage using L1-SPiRiT accelerated variable density spiral trajectories. Magnetic Resonance in Medicine, 2016, 76, 1375-1387.	3.0	18
196	Convex Optimization for 3D Parallel MRI Reconstruction. , 2016, , .		0
197	Coherence Analysis of Compressive Sensing Based Magnetic Resonance Imaging Reconstruction. , 2016, , .		0
198	High-resolution whole-brain DCE-MRI using constrained reconstruction: Prospective clinical evaluation in brain tumor patients. Medical Physics, 2016, 43, 2013-2023.	3.0	28
199	Development and testing of hyperpolarized ¹³ C MR calibrationless parallel imaging. Journal of Magnetic Resonance, 2016, 262, 1-7.	2.1	17
200	A robust method for suppressing motion-induced coil sensitivity variations during prospective correction of head motion in fMRI. Magnetic Resonance Imaging, 2016, 34, 1206-1219.	1.8	22
201	Variable density sampling and non-Cartesian super-resolved reconstruction for spatiotemporally encoded single-shot MRI. Journal of Magnetic Resonance, 2016, 272, 1-9.	2.1	3

#	ARTICLE	IF	CITATIONS
202	Interactions between head motion and coil sensitivity in accelerated fMRI. Journal of Neuroscience Methods, 2016, 270, 46-60.	2.5	14
203	A General Framework for Compressed Sensing and Parallel MRI Using Annihilating Filter Based Low-Rank Hankel Matrix. IEEE Transactions on Computational Imaging, 2016, 2, 480-495.	4.4	175
204	Cloud-processed 4D CMR flow imaging for pulmonary flow quantification. European Journal of Radiology, 2016, 85, 1849-1856.	2.6	32
205	Medical Computer Vision: Algorithms for Big Data. Lecture Notes in Computer Science, 2016, , .	1.3	0
206	Accelerating 4D flow MRI by exploiting vector field divergence regularization. Magnetic Resonance in Medicine, 2016, 75, 115-125.	3.0	24
207	A new parallel MRI image reconstruction model with elastic net regularization. , 2016, , .		2
208	RSPIRIT: Robust self-consistent parallel imaging reconstruction based on generalized Lasso. , 2016, , .		4
209	Mean Squared Error (MSE)-Based Excitation Pattern Design for Parallel Transmit and Receive SENSE MRI Image Reconstruction. IEEE Transactions on Computational Imaging, 2016, , 1-1.	4.4	4
210	Accelerating magnetic resonance imaging via deep learning. , 2016, 2016, 514-517.		455
211	Nonlinear myocardial perfusion imaging with motion corrected reconstruction: validation via quantitative flow mapping. Journal of Cardiovascular Magnetic Resonance, 2016, 18, O8.	3.3	1
212	Patch-based, iteratively-reweighted compressive recovery for reconstruction of highly accelerated exercise stress cardiac cine. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P331.	3.3	0
213	<scp>P–ORAKS</scp>: Low–rank modeling of local k–space neighborhoods with parallel imaging data. Magnetic Resonance in Medicine, 2016, 75, 1499-1514.	3.0	122
214	Undersampled linogram trajectory for fast imaging (ULTI): experiments at 3–T and 7–T. NMR in Biomedicine, 2016, 29, 340-348.	2.8	2
215	Sparse Reconstruction Techniques in Magnetic Resonance Imaging. Investigative Radiology, 2016, 51, 349-364.	6.2	81
216	A Two-Stage Low Rank Approach for Calibrationless Dynamic Parallel Magnetic Resonance Image Reconstruction. Journal of Scientific Computing, 2016, 69, 1014-1032.	2.3	1
217	Reconstruction with dictionary learning for accelerated parallel magnetic resonance imaging. , 2016, , .		5
218	Noncontrast–enhanced peripheral venography using velocity–selective magnetization preparation and transient balanced SSFP. Magnetic Resonance in Medicine, 2016, 75, 653-664.	3.0	1
219	A subspace–based coil combination method for phased–array magnetic resonance imaging. Magnetic Resonance in Medicine, 2016, 75, 762-774.	3.0	1

#	ARTICLE	IF	CITATIONS
220	Rapid volumetric t_1 mapping of the abdomen using three-dimensional through-plane spiral GRAPPA. Magnetic Resonance in Medicine, 2016, 75, 1457-1465.	3.0	27
221	Trajectory Auto-Corrected image reconstruction. Magnetic Resonance in Medicine, 2016, 76, 757-768.	3.0	17
222	CNR improvement of MP2RAGE from slice encoding directional acceleration. Magnetic Resonance Imaging, 2016, 34, 779-784.	1.8	7
223	Accelerated exponential parameterization of T2 relaxation with model-driven low rank and sparsity priors (MORASA). Magnetic Resonance in Medicine, 2016, 76, 1865-1878.	3.0	43
224	High-temporospatial-resolution dynamic contrast-enhanced (DCE) wrist MRI with variable-density pseudo-random circular Cartesian undersampling (CIRCUS) acquisition: evaluation of perfusion in rheumatoid arthritis patients. NMR in Biomedicine, 2016, 29, 15-23.	2.8	16
225	Hybrid-Space SENSE Reconstruction for Simultaneous Multi-Slice MRI. IEEE Transactions on Medical Imaging, 2016, 35, 1824-1836.	8.9	37
226	Development of Real-Time Magnetic Resonance Imaging of Mouse Hearts at 9.4 Tesla Simulations and First Application. IEEE Transactions on Medical Imaging, 2016, 35, 912-920.	8.9	10
227	Efficient Compressed Sensing SENSE pMRI Reconstruction With Joint Sparsity Promotion. IEEE Transactions on Medical Imaging, 2016, 35, 354-368.	8.9	75
228	Accelerating MR Imaging Liver Steatosis Measurement Using Combined Compressed Sensing and Parallel Imaging: A Quantitative Evaluation. Radiology, 2016, 278, 247-256.	7.3	32
229	Accelerated whole-brain multi-parameter mapping using blind compressed sensing. Magnetic Resonance in Medicine, 2016, 75, 1175-1186.	3.0	46
230	STEP: Self-supporting tailored k-space estimation for parallel imaging reconstruction. Magnetic Resonance in Medicine, 2016, 75, 750-761.	3.0	6
231	Efficient parallel reconstruction for high resolution multishot spiral diffusion data with low rank constraint. Magnetic Resonance in Medicine, 2017, 77, 1359-1366.	3.0	37
232	Self-gated cardiac cine imaging using phase information. Magnetic Resonance in Medicine, 2017, 77, 1216-1222.	3.0	6
233	Image Reconstruction for a Rotating Radiofrequency Coil (RRFC) Using Self-Calibrated Sensitivity From Radial Sampling. IEEE Transactions on Biomedical Engineering, 2017, 64, 274-283.	4.2	6
234	Accelerating chemical exchange saturation transfer (CEST) MRI by combining compressed sensing and sensitivity encoding techniques. Magnetic Resonance in Medicine, 2017, 77, 779-786.	3.0	62
235	3D Cartesian MRI with compressed sensing and variable view sharing using complementary poisson-disc sampling. Magnetic Resonance in Medicine, 2017, 77, 1774-1785.	3.0	36
236	Real-time free-breathing cardiac imaging with self-calibrated through-plane radial GRAPPA. Magnetic Resonance in Medicine, 2017, 77, 250-264.	3.0	9
237	Desynchronization of Cartesian k-space sampling and periodic motion for improved retrospectively self-gated 3D lung MRI using quasi-random numbers. Magnetic Resonance in Medicine, 2017, 77, 787-793.	3.0	8

#	ARTICLE	IF	CITATIONS
238	Fast implementation for compressive recovery of highly accelerated cardiac cine MRI using the balanced sparse model. Magnetic Resonance in Medicine, 2017, 77, 1505-1515.	3.0	16
239	A New Joint-Blade SENSE Reconstruction for Accelerated PROPELLER MRI. Scientific Reports, 2017, 7, 42602.	3.3	3
240	SMSâ€HSL: Simultaneous multislice aliasing separation exploiting hankel subspace learning. Magnetic Resonance in Medicine, 2017, 78, 1392-1404.	3.0	10
241	Self-navigated 4D cartesian imaging of periodic motion in the body trunk using partial k-space compressed sensing. Magnetic Resonance in Medicine, 2017, 78, 632-644.	3.0	30
242	Highly-accelerated self-gated free-breathing 3D cardiac cine MRI: validation in assessment of left ventricular function. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2017, 30, 337-346.	2.0	19
243	Goldenâ€ratio rotated stackâ€ofâ€stars acquisition for improved volumetric <scp>MRI</scp>. Magnetic Resonance in Medicine, 2017, 78, 2290-2298.	3.0	35
244	Recent advances in parallel imaging for MRI. Progress in Nuclear Magnetic Resonance Spectroscopy, 2017, 101, 71-95.	7.5	145
245	Profileâ€encoding reconstruction for multipleâ€acquisition balanced steadyâ€state free precession imaging. Magnetic Resonance in Medicine, 2017, 78, 1316-1329.	3.0	22
246	Merging computational fluid dynamics and 4D Flow MRI using proper orthogonal decomposition and ridge regression. Journal of Biomechanics, 2017, 58, 162-173.	2.1	46
247	A Frequency-Dependent Regularization for Autocalibrating Parallel MRI Using the Generalized Discrepancy Principle. IEEE Transactions on Computational Imaging, 2017, 3, 891-900.	4.4	1
248	Compressed sensing MRI reconstruction from 3D multichannel data using GPUs. Magnetic Resonance in Medicine, 2017, 78, 2265-2274.	3.0	16
249	Investigation of undersampling and reconstruction algorithm dependence on respiratory correlated 4D-MRI for online MR-guided radiation therapy. Physics in Medicine and Biology, 2017, 62, 2910-2921.	3.0	45
250	Autocalibrating motionâ€corrected waveâ€encoding for highly accelerated freeâ€breathing abdominal MRI. Magnetic Resonance in Medicine, 2017, 78, 1757-1766.	3.0	10
251	Compressed sensing for body MRI. Journal of Magnetic Resonance Imaging, 2017, 45, 966-987.	3.4	206
252	A parallel <scp>MR</scp> imaging method using multilayer perceptron. Medical Physics, 2017, 44, 6209-6224.	3.0	124
253	Trimmed autocalibrating k-space estimation based on structured matrix completion. Magnetic Resonance Imaging, 2017, 43, 88-94.	1.8	5
254	Compressed Sensing MRI Using Sparsity Averaging and FISTA. Applied Magnetic Resonance, 2017, 48, 749-760.	1.2	9
255	A Fast Algorithm for Convolutional Structured Low-Rank Matrix Recovery. IEEE Transactions on Computational Imaging, 2017, 3, 535-550.	4.4	58

#	ARTICLE	IF	CITATIONS
256	Compressed sensing trends in magnetic resonance imaging. Engineering Science and Technology, an International Journal, 2017, 20, 1342-1352.	3.2	22
257	MR-based respiratory and cardiac motion correction for PET imaging. Medical Image Analysis, 2017, 42, 129-144.	11.6	64
258	Accelerating 4D flow MRI by exploiting low-rank matrix structure and hadamard sparsity. Magnetic Resonance in Medicine, 2017, 78, 1330-1341.	3.0	17
259	3D accelerated, stack-of-spirals acquisitions and reconstruction of arterial spin labeling MRI. Magnetic Resonance in Medicine, 2017, 78, 1405-1419.	3.0	17
260	Multi-shot sensitivity-encoded diffusion data recovery using structured low-rank matrix completion (MUSSELS). Magnetic Resonance in Medicine, 2017, 78, 494-507.	3.0	115
261	CUSTOM: A Calibration Region Recovery Approach for Highly Subsampled Dynamic Parallel Magnetic Resonance Imaging. Journal of Mathematical Imaging and Vision, 2017, 57, 366-380.	1.3	1
262	Motion correction for functional MRI with three-dimensional hybrid radial-Cartesian EPI. Magnetic Resonance in Medicine, 2017, 78, 527-540.	3.0	28
263	Privacy-Preserving Outsourcing of Parallel Magnetic Resonance Image Reconstruction. , 2017, , .		0
264	CS regularized SENSE pMRI reconstruction via interferometric modulation. , 2017, , .		1
265	A Feasibility Study of Geometric-Decomposition Coil Compression in MRI Radial Acquisitions. Computational and Mathematical Methods in Medicine, 2017, 2017, 1-9.	1.3	3
266	Iterative Schemes to Solve Low-Dimensional Calibration Equations in Parallel MR Image Reconstruction with GRAPPA. BioMed Research International, 2017, 2017, 1-16.	1.9	5
267	Computational imaging with loraks: Reconstructing linearly predictable signals using low-rank matrix regularization. , 2017, , .		3
268	3D hyperpolarized C-13 EPI with calibrationless parallel imaging. Journal of Magnetic Resonance, 2018, 289, 92-99.	2.1	32
269	Acceleration Strategies for Data Sampling in MRI. , 2018, , 167-186.		0
270	Phase-Constrained Parallel Magnetic Resonance Imaging Reconstruction Based on Low-Rank Matrix Completion. IEEE Access, 2018, 6, 4941-4954.	4.2	2
271	Assessment of velopharyngeal function with dual-planar high-resolution real-time spiral dynamic MRI. Magnetic Resonance in Medicine, 2018, 80, 1467-1474.	3.0	14
272	The effects of navigator distortion and noise level on interleaved EPI DWI reconstruction: a comparison between image- and k-space-based method. Magnetic Resonance in Medicine, 2018, 80, 2024-2032.	3.0	13
273	Improved parallel image reconstruction using feature refinement. Magnetic Resonance in Medicine, 2018, 80, 211-223.	3.0	11

#	ARTICLE	IF	CITATIONS
274	Learning Joint-Sparse Codes for Calibration-Free Parallel MR Imaging. IEEE Transactions on Medical Imaging, 2018, 37, 251-261.	8.9	56
275	On-the-Fly Adaptive k -Space Sampling for Linear MRI Reconstruction Using Moment-Based Spectral Analysis. IEEE Transactions on Medical Imaging, 2018, 37, 557-567.	8.9	18
276	PRIM: An Efficient Preconditioning Iterative Reweighted Least Squares Method for Parallel Brain MRI Reconstruction. Neuroinformatics, 2018, 16, 425-430.	2.8	6
277	Accuracy of the Compressed Sensing Accelerated 3D-FLAIR Sequence for the Detection of MS Plaques at 3T. American Journal of Neuroradiology, 2018, 39, 454-458.	2.4	48
278	Reconstruction by calibration over tensors for multi-coil acquisition balanced SSFP imaging. Magnetic Resonance in Medicine, 2018, 79, 2542-2554.	3.0	14
279	Retrospective motion gating in cardiac MRI using a simultaneously acquired navigator. NMR in Biomedicine, 2018, 31, e3874.	2.8	4
280	Improving parallel imaging by jointly reconstructing multi-contrast data. Magnetic Resonance in Medicine, 2018, 80, 619-632.	3.0	62
281	Evaluation of an accelerated 3D SPACE sequence with compressed sensing and free-stop scan mode for imaging of the knee. European Journal of Radiology, 2018, 102, 74-82.	2.6	9
282	Deep Residual Learning for Accelerated MRI Using Magnitude and Phase Networks. IEEE Transactions on Biomedical Engineering, 2018, 65, 1985-1995.	4.2	212
283	Characterization and suppression of stripe artifact in velocity-selective magnetization-prepared unenhanced MR angiography. Magnetic Resonance in Medicine, 2018, 80, 1997-2005.	3.0	23
284	Simultaneous auto-calibration and gradient delays estimation (SAGE) in non-Cartesian parallel MRI using low-rank constraints. Magnetic Resonance in Medicine, 2018, 80, 2006-2016.	3.0	13
285	Pulmonary artery imaging under free-breathing using golden-angle radial b SSFP MRI : a proof of concept. Magnetic Resonance in Medicine, 2018, 80, 1847-1856.	3.0	3
286	Stable and efficient retrospective 4D-MRI using non-uniformly distributed quasi-random numbers. Physics in Medicine and Biology, 2018, 63, 075002.	3.0	15
287	Variable density magnetization transfer (vdMT) imaging for 7 T MR imaging. NeuroImage, 2018, 168, 242-249.	4.2	4
288	Comparison of fast acquisition strategies in whole-heart four-dimensional flow cardiac MR: Two-center, 1.5 Tesla, phantom and in vivo validation study. Journal of Magnetic Resonance Imaging, 2018, 47, 272-281.	3.4	52
289	5D whole-heart sparse MRI. Magnetic Resonance in Medicine, 2018, 79, 826-838.	3.0	112
290	Interleaved EPI diffusion imaging using SPIRiT -based reconstruction with virtual coil compression. Magnetic Resonance in Medicine, 2018, 79, 1525-1531.	3.0	25
291	Snapshot whole-brain T_1 relaxometry using steady-state prepared spiral multislice variable flip angle imaging. Magnetic Resonance in Medicine, 2018, 79, 856-866.	3.0	3

#	ARTICLE	IF	CITATIONS
292	Non-contrast-enhanced peripheral MR angiography using velocity-selective excitation. Magnetic Resonance in Medicine, 2018, 79, 779-788.	3.0	2
293	Accelerated multicontrast volumetric imaging with isotropic resolution for improved perinfarct characterization using parallel imaging, low-rank and spatially varying edge-preserving sparse modeling. Magnetic Resonance in Medicine, 2018, 79, 3018-3031.	3.0	4
294	Simultaneous multi-slice MRI using cartesian and radial FLASH and regularized nonlinear inversion: SMS-nLINV. Magnetic Resonance in Medicine, 2018, 79, 2057-2066.	3.0	22
295	Controlling the object phase for g-factor reduction in phase-constrained parallel MRI using spatially selective RF pulses. Magnetic Resonance in Medicine, 2018, 79, 2113-2125.	3.0	5
296	Technical Note: Sequential combination of parallel imaging and dynamic artificial sparsity framework for rapid free-breathing golden-angle radial dynamic MRI: K _{ARTS} -GROWL. Medical Physics, 2018, 45, 202-213.	3.0	7
297	Compressed Sensing and Beyond. , 2018, , 301-321.		0
298	Efficient operator splitting algorithm for joint sparsity-regularized SPIRiT-based parallel MR imaging reconstruction. Magnetic Resonance Imaging, 2018, 46, 81-89.	1.8	9
299	Self-calibrated correlation imaging with k-space variant correlation functions. Magnetic Resonance in Medicine, 2018, 79, 1483-1494.	3.0	3
300	Motion-corrected k-space reconstruction for interleaved EPI diffusion imaging. Magnetic Resonance in Medicine, 2018, 79, 1992-2002.	3.0	21
301	Accelerating Noise-Free MRI Reconstruction for Image-Guided Medical Robot Interventions. , 2018, ,		0
302	Fast GPU Implementation of a Scan-Specific Deep Learning Reconstruction for Accelerated Magnetic Resonance Imaging. , 2018, 2018, 399-403.		3
303	Fourier Velocity Encoded MRI: Acceleration and Velocity Map Estimation. , 2018, ,		0
304	Multi-channel Generative Adversarial Network for Parallel Magnetic Resonance Image Reconstruction in K-space. Lecture Notes in Computer Science, 2018, , 180-188.	1.3	26
305	Fundamentals of Compressed Sensing for MR Imaging. Japanese Journal of Magnetic Resonance in Medicine, 2018, 38, 61-75.	0.0	1
306	Navigator-Free EPI Ghost Correction With Structured Low-Rank Matrix Models: New Theory and Methods. IEEE Transactions on Medical Imaging, 2018, 37, 2390-2402.	8.9	35
307	Kernel Principal Component Analysis of Coil Compression in Parallel Imaging. Computational and Mathematical Methods in Medicine, 2018, 2018, 1-9.	1.3	7
308	Real-time cardiac MRI with radial acquisition and k-space variant reduced-FOV reconstruction. Magnetic Resonance Imaging, 2018, 53, 98-104.	1.8	7
309	GPU Computing based fast discrete wavelet transform for l1-regularized SPIRiT reconstruction. Imaging Science Journal, 2018, 66, 393-408.	0.5	2

#	ARTICLE	IF	CITATIONS
310	Simple motion correction strategy reduces respiratory-induced motion artifacts for k-t accelerated and compressed-sensing cardiovascular magnetic resonance perfusion imaging. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 6.	3.3	32
311	Quantitative cardiovascular magnetic resonance perfusion imaging identifies reduced flow reserve in microvascular coronary artery disease. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 14.	3.3	72
312	Regularization in parallel magnetic resonance imaging. International Journal of Imaging Systems and Technology, 2018, 28, 92-98.	4.1	4
313	Joint partial fourier and compressed sensing reconstruction for accelerated time-of-flight MR angiography. , 2018, , .		1
314	Indigo: A Domain-Specific Language for Fast, Portable Image Reconstruction. , 2018, , .		3
315	Technical Note: Interleaved bipolar acquisition and low-rank reconstruction for water-fat separation in MRI. Medical Physics, 2018, 45, 3229-3237.	3.0	0
316	Parallel imaging compressed sensing for accelerated imaging and improved signal-to-noise ratio in MRI-based postimplant dosimetry of prostate brachytherapy. Brachytherapy, 2018, 17, 816-824.	0.5	9
317	SecSAKE. , 2018, , .		3
318	KerNL: Kernel-Based Nonlinear Approach to Parallel MRI Reconstruction. IEEE Transactions on Medical Imaging, 2019, 38, 312-321.	8.9	15
319	Adenosine stress CMR perfusion imaging of the temporal evolution of perfusion defects in a porcine model of progressive obstructive coronary artery occlusion. NMR in Biomedicine, 2019, 32, e4136.	2.8	3
320	Accelerated Coronary Mri Using 3D Spirit-Raki With Sparsity Regularization. , 2019, 2019, 1692-1695.		13
321	Regular Sampling of Tensor Signals: Theory and Application to fMRI. , 2019, , .		8
322	Cardiovascular Magnetic Resonance Angiography. , 2019, , 236-281.		0
323	Calibrationless Oscar-Based Image Reconstruction in Compressed Sensing Parallel MRI. , 2019, , .		5
324	Interpolated Compressed Sensing for Calibrationless Parallel MRI Reconstruction. , 2019, , .		3
325	Applications of magnetic resonance imaging in chemical engineering. Physical Sciences Reviews, 2019, 4, .	0.8	3
326	Cardiac CT, PET & MR. , 2019, , .		2
327	Evaluation of compressed sensing MRI for accelerated bowel motility imaging. European Radiology Experimental, 2019, 3, 7.	3.4	11

#	ARTICLE	IF	CITATIONS
328	Optimization of steady-state pulsed CEST imaging for amide proton transfer at 3T MRI. Magnetic Resonance in Medicine, 2019, 81, 3616-3627.	3.0	9
329	Eigenvector-based SPIRiT Parallel MR Imaging Reconstruction based on a “pseudo-norm Joint Total Variation. Magnetic Resonance Imaging, 2019, 58, 108-115.	1.8	4
330	SANTIS: Sampling-Augmented Neural neTwork with Incoherent Structure for MR image reconstruction. Magnetic Resonance in Medicine, 2019, 82, 1890-1904.	3.0	70
331	Sparse representations and compressive sensing in multi-dimensional signal processing. CSI Transactions on ICT, 2019, 7, 233-242.	1.0	1
332	Improving GRAPPA reconstruction using joint nonlinear kernel mapped and phase conjugated virtual coils. Physics in Medicine and Biology, 2019, 64, 14NT01.	3.0	12
333	A 3D k-space Fourier encoding and reconstruction framework for simultaneous multi-slab acquisition. Magnetic Resonance in Medicine, 2019, 82, 1012-1024.	3.0	7
334	Common Information Enhanced Reconstruction for Accelerated High-resolution Multi-shot Diffusion Imaging. Magnetic Resonance Imaging, 2019, 62, 28-37.	1.8	2
335	Free-breathing cine imaging with motion-corrected reconstruction at 3T using SPiral Acquisition with Respiratory correction and Cardiac Self-gating (SPARCS). Magnetic Resonance in Medicine, 2019, 82, 706-720.	3.0	24
336	Virtual slice concept for improved simultaneous multi-slice MRI employing an extended leakage constraint. Magnetic Resonance in Medicine, 2019, 82, 377-386.	3.0	5
337	A GRAPPA algorithm for arbitrary 2D/3D non-Cartesian sampling trajectories with rapid calibration. Magnetic Resonance in Medicine, 2019, 82, 1101-1112.	3.0	13
338	High-resolution lung MRI with Ultrashort-TE: 1.5 or 3 Tesla?. Magnetic Resonance Imaging, 2019, 61, 97-103.	1.8	20
339	Accelerated interleaved spiral-IDEAL imaging of hyperpolarized ¹²⁹ Xe for parametric gas exchange mapping in humans. Magnetic Resonance in Medicine, 2019, 82, 1113-1119.	3.0	29
340	High-dimensionality undersampled patch-based reconstruction (HD-PROST) for accelerated multi-contrast MRI. Magnetic Resonance in Medicine, 2019, 81, 3705-3719.	3.0	79
341	MANTIS: Model-Augmented Neural neTwork with Incoherent k-space Sampling for efficient MR parameter mapping. Magnetic Resonance in Medicine, 2019, 82, 174-188.	3.0	77
342	Compressed sensing MRI: a review from signal processing perspective. BMC Biomedical Engineering, 2019, 1, 8.	2.6	106
343	Volumetric abdominal perfusion measurement using a pseudo-randomly sampled 3D fast-spin-echo (FSE) arterial spin labeling (ASL) sequence and compressed sensing reconstruction. Magnetic Resonance in Medicine, 2019, 82, 680-692.	3.0	14
344	Sparsity and locally low rank regularization for MR fingerprinting. Magnetic Resonance in Medicine, 2019, 81, 3530-3543.	3.0	46
345	A Parameter-Insensitive Solution for Hybrid Compressed Sensing and Parallel Imaging. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
346	Learning How to Interpolate Fourier Data With Unknown Autoregressive Structure: An Ensemble-Based Approach. , 2019, , .		0
347	Compressed Sensing MRI Reconstruction Using Generative Adversarial Network with Enhanced Antagonism. , 2019, , .		3
348	TV-RSPIRiT: Total Variation Regularized Based Robust Self-Consistent Parallel Imaging Reconstruction. , 2019, , .		2
349	Deep Plug-and-Play Prior for Parallel MRI Reconstruction. , 2019, , .		8
350	A Network-Driven Prior Induced Bregman Model for Parallel MR Imaging*. , 2019, 2019, 4483-4486.		0
351	Improved Regularized Reconstruction for Simultaneous Multi-Slice Cardiac MRI T_1 Mapping. , 2019, 2019, .		6
352	Comparison of different methods for the estimation of aortic pulse wave velocity from 4D flow cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 75.	3.3	26
353	Scan-specific robust artificial neural networks for k-space interpolation (RAKI) reconstruction: Database-free deep learning for fast imaging. Magnetic Resonance in Medicine, 2019, 81, 439-453.	3.0	253
354	Incorporating reference guided priors into calibrationless parallel imaging reconstruction. Magnetic Resonance Imaging, 2019, 57, 347-358.	1.8	4
355	Simultaneous B_1 and T_1 mapping using spiral multislice variable flip angle acquisitions for whole-brain coverage in less than one minute. Magnetic Resonance in Medicine, 2019, 81, 1876-1889.	3.0	6
356	Efficient Dynamic Parallel MRI Reconstruction for the Low-Rank Plus Sparse Model. IEEE Transactions on Computational Imaging, 2019, 5, 17-26.	4.4	13
357	Statistically Segregated k-Space Sampling for Accelerating Multiple-Acquisition MRI. IEEE Transactions on Medical Imaging, 2019, 38, 1701-1714.	8.9	17
358	Accelerated multi-contrast high isotropic resolution 3D intracranial vessel wall MRI using a tailored k-space undersampling and partially parallel reconstruction strategy. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2019, 32, 343-357.	2.0	14
359	Unenhanced Velocity-Selective MR Angiography (VS-MRA): Initial Clinical Evaluation in Patients With Peripheral Artery Disease. Journal of Magnetic Resonance Imaging, 2019, 49, 744-751.	3.4	10
360	CORE-PI: Non-iterative convolution-based reconstruction for parallel MRI in the wavelet domain. Medical Physics, 2019, 46, 199-214.	3.0	3
361	Whole-heart spiral simultaneous multi-slice first-pass myocardial perfusion imaging. Magnetic Resonance in Medicine, 2019, 81, 852-862.	3.0	29
362	Simultaneous multi-slice cardiac cine with Fourier-encoded self-calibration at 7 Tesla. Magnetic Resonance in Medicine, 2019, 81, 2576-2587.	3.0	15
363	Projection onto Epigraph Sets for Rapid Self-Tuning Compressed Sensing MRI. IEEE Transactions on Medical Imaging, 2019, 38, 1677-1689.	8.9	19

#	ARTICLE	IF	CITATIONS
364	Ultrafast 3D Bloch-Siegert B ₁ -mapping using variational modeling. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 881-892.	3.0	14
365	An Improved Calibration Framework for Iterative Self-Consistent Parallel Imaging Reconstruction (SPIRiT). <i>Applied Magnetic Resonance</i> , 2019, 50, 103-120.	1.2	0
366	Accelerating Parallel Magnetic Resonance Imaging Using p-Thresholding Based Compressed-Sensing. <i>Applied Magnetic Resonance</i> , 2019, 50, 243-261.	1.2	3
367	WaveLORAKS: Combining wave encoding with structured low-rank matrix modeling for more highly accelerated 3D imaging. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1620-1633.	3.0	24
368	Motion-compensated reconstruction of magnetic resonance images from undersampled data. <i>Magnetic Resonance Imaging</i> , 2019, 55, 36-45.	1.8	2
369	Undersampled CS image reconstruction using nonconvex nonsmooth mixed constraints. <i>Multimedia Tools and Applications</i> , 2019, 78, 12749-12782.	3.9	10
370	Self-calibrating wave-encoded 3D turbo spin echo imaging using subspace model based autofocusing. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1250-1262.	3.0	3
371	Euler's elastica-based algorithm for Parallel MRI reconstruction using SENSitivity Encoding. <i>Optimization Letters</i> , 2020, 14, 1435-1458.	1.6	3
372	Perturbed spiral real-time phase-contrast MR with compressive sensing reconstruction for assessment of flow in children. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 2077-2091.	3.0	15
374	Navigator-based reacquisition and estimation of motion-corrupted data: Application to multi-echo spin echo for carotid wall MRI. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 2026-2041.	3.0	6
375	Non-Cartesian slice-GRAPPA and slice-SPIRiT reconstruction methods for multiband spiral cardiac MRI. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1235-1249.	3.0	9
376	Tensor Completion From Regular Sub-Nyquist Samples. <i>IEEE Transactions on Signal Processing</i> , 2020, 68, 1-16.	5.3	37
377	Overdiscrete echo-planar spectroscopic imaging with correlated higher-order phase correction. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 11-24.	3.0	1
378	A quantitative comparison between a navigated Cartesian and a self-navigated radial protocol from clinical studies for free-breathing 3D whole-heart bSSFP coronary MRA. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 157-169.	3.0	10
379	Accelerating Non-Cartesian MRI Reconstruction Convergence Using k-Space Preconditioning. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 1646-1654.	8.9	15
380	A Transfer-Learning Approach for Accelerated MRI Using Deep Neural Networks. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 663-685.	3.0	106
381	Temperature estimation for MR-guided microwave hyperthermia using block-based compressed sensing*. , 2020, 2020, 5057-5060.		0
382	High-Fidelity Accelerated MRI Reconstruction by Scan-Specific Fine-Tuning of Physics-Based Neural Networks. , 2020, 2020, 1481-1484.		4

#	ARTICLE	IF	CITATIONS
383	Machine Learning for Medical Image Reconstruction. Lecture Notes in Computer Science, 2020, , .	1.3	0
384	Super-resolution and denoising of 4D-Flow MRI using physics-Informed deep neural nets. Computer Methods and Programs in Biomedicine, 2020, 197, 105729.	4.7	51
385	J-MoDL: Joint Model-Based Deep Learning for Optimized Sampling and Reconstruction. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 1151-1162.	10.8	53
386	Parallel imaging with a combination of sensitivity encoding and generative adversarial networks. Quantitative Imaging in Medicine and Surgery, 2020, 10, 2260-2273.	2.0	8
387	Deep Generalization of Structured Low-Rank Algorithms (Deep-SLR). IEEE Transactions on Medical Imaging, 2020, 39, 4186-4197.	8.9	27
388	Compressed Sensing MRI. Advances in Clinical Radiology, 2020, 2, 257-271.	0.2	2
389	Multiple Slice k-space Deep Learning for Magnetic Resonance Imaging Reconstruction. , 2020, 2020, 1564-1567.		11
390	Prior-Guided Image Reconstruction for Accelerated Multi-Contrast MRI via Generative Adversarial Networks. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 1072-1087.	10.8	78
391	Scan-Specific Accelerated Mri Reconstruction Using Recurrent Neural Networks In A Regularized Self-Consistent Framework. , 2020, , .		0
392	SURE-based automatic parameter selection for ESPIRiT calibration. Magnetic Resonance in Medicine, 2020, 84, 3423-3437.	3.0	9
393	A Deep Framework Assembling Principled Modules for CS-MRI: Unrolling Perspective, Convergence Behaviors, and Practical Modeling. IEEE Transactions on Medical Imaging, 2020, 39, 4150-4163.	8.9	17
394	Diagnostic quality assessment of IR-prepared 3D magnetic resonance neuroimaging accelerated using compressed sensing and k-space sampling order optimization. Magnetic Resonance Imaging, 2020, 74, 31-45.	1.8	0
395	Adaptive Transform Learning and Joint Sparsity Based PLORAKS Parallel Magnetic Resonance Image Reconstruction. IEEE Access, 2020, 8, 212315-212326.	4.2	4
396	Temperature-Sensitive Frozen-Tissue Imaging for Cryoablation Monitoring Using STIR-UTE MRI. Investigative Radiology, 2020, 55, 310-317.	6.2	8
397	Improved Simultaneous Multi-Slice Imaging for Perfusion Cardiac MRI Using Outer Volume Suppression and Regularized Reconstruction. , 2020, , .		4
398	Feasibility of 4D T2* quantification in the lung with oxygen gas challenge in patients with non-small cell lung cancer. Physica Medica, 2020, 72, 46-51.	0.7	2
399	WARF: A Weighted-Sum Approach to Radial MRI Image Reconstruction With a Rotating RF Coil. IEEE Transactions on Computational Imaging, 2020, 6, 558-568.	4.4	0
400	Self-supervised learning of physics-guided reconstruction neural networks without fully sampled reference data. Magnetic Resonance in Medicine, 2020, 84, 3172-3191.	3.0	133

#	ARTICLE	IF	CITATIONS
401	Temporal differences (TED) compressed sensing: a method for fast MRgHIFU temperature imaging. NMR in Biomedicine, 2020, 33, e4352.	2.8	3
402	Calibrationless Parallel MRI Using Model Based Deep Learning (C-MODL). , 2020, 2020, 1428-1431.		1
403	Calibrationless parallel compressed sensing reconstruction for rapid magnetic resonance imaging. , 2020, , 269-281.		0
404	A dictionary-based graph-cut algorithm for MRI reconstruction. NMR in Biomedicine, 2020, 33, e4344.	2.8	0
405	DeepcomplexMRI: Exploiting deep residual network for fast parallel MR imaging with complex convolution. Magnetic Resonance Imaging, 2020, 68, 136-147.	1.8	120
406	Machine Intelligence and Signal Processing. Advances in Intelligent Systems and Computing, 2020, , .	0.6	0
407	Calibrationless joint compressed sensing reconstruction for rapid parallel MRI. Biomedical Signal Processing and Control, 2020, 58, 101871.	5.7	11
408	A locally segmented reconstruction method for parallel imaging. Magnetic Resonance in Medicine, 2020, 84, 1638-1647.	3.0	0
409	Time-domain principal component reconstruction (tPCR): A more efficient and stable iterative reconstruction framework for non-Cartesian functional MRI. Magnetic Resonance in Medicine, 2020, 84, 1321-1335.	3.0	3
410	Super-Resolution with compressively sensed MR/PET signals at its input. Informatics in Medicine Unlocked, 2020, 18, 100302.	3.4	9
411	Accelerated coronary MRI with sRAKI: A database-free self-consistent neural network k-space reconstruction for arbitrary undersampling. PLoS ONE, 2020, 15, e0229418.	2.5	25
412	Factorized sensitivity estimation for artifact suppression in phase-cycled bSSFP MRI. NMR in Biomedicine, 2020, 33, e4228.	2.8	3
413	Deep-Learning Methods for Parallel Magnetic Resonance Imaging Reconstruction: A Survey of the Current Approaches, Trends, and Issues. IEEE Signal Processing Magazine, 2020, 37, 128-140.	5.6	213
414	Linear Predictability in Magnetic Resonance Imaging Reconstruction: Leveraging Shift-Invariant Fourier Structure for Faster and Better Imaging. IEEE Signal Processing Magazine, 2020, 37, 69-82.	5.6	40
415	Deep complex convolutional network for fast reconstruction of 3D late gadolinium enhancement cardiac MRI. NMR in Biomedicine, 2020, 33, e4312.	2.8	30
416	Non-contrast coronary magnetic resonance angiography: current frontiers and future horizons. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 591-612.	2.0	20
417	Non-rigid image registration of 4D-MRI data for improved delineation of moving tumors. BMC Medical Imaging, 2020, 20, 41.	2.7	4
418	Image reconstruction with low-rankness and self-consistency of k-space data in parallel MRI. Medical Image Analysis, 2020, 63, 101687.	11.6	36

#	ARTICLE	IF	CITATIONS
419	MD-Recon-Net: A Parallel Dual-Domain Convolutional Neural Network for Compressed Sensing MRI. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 120-135.	3.7	41
420	Accelerated MR spectroscopic imaging—a review of current and emerging techniques. NMR in Biomedicine, 2021, 34, e4314.	2.8	67
421	Bias field correction for improved compressed sensing reconstruction in parallel magnetic resonance imaging. Signal, Image and Video Processing, 2021, 15, 687-693.	2.7	0
422	Calibrationless parallel imaging reconstruction for multislice MR data using low-rank tensor completion. Magnetic Resonance in Medicine, 2021, 85, 897-911.	3.0	17
423	Accelerating cardiac cine MRI using a deep learning-based ESPIRiT reconstruction. Magnetic Resonance in Medicine, 2021, 85, 152-167.	3.0	80
424	Three-dimensional Yarnball k-space acquisition for accelerated MRI. Magnetic Resonance in Medicine, 2021, 85, 1840-1854.	3.0	4
425	Real-time exercise stress cardiac MRI with Fourier-series reconstruction from golden-angle radial data. Magnetic Resonance Imaging, 2021, 75, 89-99.	1.8	6
426	Compressed sensing plus motion (CS+M): A new perspective for improving undersampled MR image reconstruction. Medical Image Analysis, 2021, 68, 101933.	11.6	11
427	Highly accelerated submillimeter resolution 3D GRASE with controlled blurring in ℓ_1 -weighted functional MRI at 7 Tesla: A feasibility study. Magnetic Resonance in Medicine, 2021, 85, 2490-2506.	3.0	17
428	Robust autocalibrated structured low-rank EPI ghost correction. Magnetic Resonance in Medicine, 2021, 85, 3403-3419.	3.0	11
429	One-minute whole-brain magnetization transfer ratio imaging with intrinsic B ₁ correction. Magnetic Resonance in Medicine, 2021, 85, 2686-2695.	3.0	1
430	RUN-CUP: Accelerated multishot diffusion-weighted MRI reconstruction using an unrolled network with U-Net as priors. Magnetic Resonance in Medicine, 2021, 85, 709-720.	3.0	29
431	Detecting small pulmonary nodules with spiral ultrashort echo time sequences in 1.5T MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 399-409.	2.0	9
432	Wasserstein GANs for MR Imaging: From Paired to Unpaired Training. IEEE Transactions on Medical Imaging, 2021, 40, 105-115.	8.9	36
433	A 4-minute solution for submillimeter whole-brain T ₁ quantification. Magnetic Resonance in Medicine, 2021, 85, 3299-3307.	3.0	4
434	PIC-GAN: A Parallel Imaging Coupled Generative Adversarial Network for Accelerated Multi-Channel MRI Reconstruction. Diagnostics, 2021, 11, 61.	2.6	34
435	Deep J-Sense: Accelerated MRI Reconstruction via Unrolled Alternating Optimization. Lecture Notes in Computer Science, 2021, 12906, 350-360.	1.3	8
436	Parallel magnetic resonance imaging acceleration with a hybrid sensing approach. Mathematical Biosciences and Engineering, 2021, 18, 2288-2302.	1.9	1

#	ARTICLE	IF	CITATIONS
437	Fully Balanced SSFP Without an Endorectal Coil for Postimplant QA of MRI-Assisted Radiosurgery (MARS) of Prostate Cancer: A Prospective Study. International Journal of Radiation Oncology Biology Physics, 2021, 109, 614-625.	0.8	7
438	Improved simultaneous multislice cardiac MRI using readout concatenated k-space SPIRiT (ROCK-SPIRiT). Magnetic Resonance in Medicine, 2021, 85, 3036-3048.	3.0	10
439	Joint calibrationless reconstruction of highly undersampled multicontrast MR datasets using a low-rank Hankel tensor completion framework. Magnetic Resonance in Medicine, 2021, 85, 3256-3271.	3.0	12
440	High spatial resolution spiral first-pass myocardial perfusion imaging with whole-heart coverage at 3 T. Magnetic Resonance in Medicine, 2021, 86, 648-662.	3.0	9
441	Highly accelerated subtractive femoral non-contrast-enhanced MRA using compressed sensing with k-space subtraction, phase and intensity correction. Magnetic Resonance in Medicine, 2021, 86, 320-334.	3.0	2
442	Off-resonance CorreCtion OPen soUrcE Software (OCTOPUS). Journal of Open Source Software, 2021, 6, 2578.	4.6	1
443	Machine learning in Magnetic Resonance Imaging: Image reconstruction. Physica Medica, 2021, 83, 79-87.	0.7	29
444	Free-breathing simultaneous T_1 , T_2 , and T_2^* quantification in the myocardium. Magnetic Resonance in Medicine, 2021, 86, 1226-1240.	3.0	11
445	High-dimensional fast convolutional framework (HICU) for calibrationless MRI. Magnetic Resonance in Medicine, 2021, 86, 1212-1225.	3.0	7
446	MRIReco.jl: An MRI reconstruction framework written in Julia. Magnetic Resonance in Medicine, 2021, 86, 1633-1646.	3.0	15
447	Acceleration of Brain TOF-MRA with Compressed Sensitivity Encoding: A Multicenter Clinical Study. American Journal of Neuroradiology, 2021, 42, 1208-1215.	2.4	15
448	Improved parallel magnetic resonance imaging reconstruction with multiple variable density sampling. Scientific Reports, 2021, 11, 9005.	3.3	5
449	A guaranteed convergence analysis for the projected fast iterative soft-thresholding algorithm in parallel MRI. Medical Image Analysis, 2021, 69, 101987.	11.6	21
450	Massive-Training Artificial Neural Network (Mtann) With Special Kernel For Artifact Reduction In Fast-Acquisition Mri Of The Knee. , 2021, , .		0
451	Highly accelerated parallel MRI using wave encoding and virtual conjugate coils. Magnetic Resonance in Medicine, 2021, 86, 1345-1359.	3.0	7
452	Variable flip angle echo planar time-resolved imaging (vFA-EPTI) for fast high-resolution gradient echo myelin water imaging. NeuroImage, 2021, 232, 117897.	4.2	22
453	Deep learning-based segmentation of the lung in MR-images acquired by a stack-of-spirals trajectory at ultra-short echo-times. BMC Medical Imaging, 2021, 21, 79.	2.7	7
454	APIR4EMC: Autocalibrated parallel imaging reconstruction for extended multi-contrast imaging. Magnetic Resonance Imaging, 2021, 78, 80-89.	1.8	1

#	ARTICLE	IF	CITATIONS
455	Real-Time Multifrequency MR Elastography of the Human Brain Reveals Rapid Changes in Viscoelasticity in Response to the Valsalva Maneuver. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 666456.	4.1	14
456	Autocalibrating segmented diffusion-weighted acquisitions. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 1997-2010.	3.0	2
457	Optimized 64-channel array configurations for accelerated simultaneous multislice acquisitions in 3T cardiac MRI. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 2276-2289.	3.0	7
458	Real-time dynamic vocal tract imaging using an accelerated spiral GRE sequence and low rank plus sparse reconstruction. <i>Magnetic Resonance Imaging</i> , 2021, 80, 106-112.	1.8	3
459	Compressed Sensing in Parallel MRI: A Review. <i>International Journal of Image and Graphics</i> , 2022, 22, .	1.5	3
460	Highly accelerated magnetic resonance acoustic radiation force imaging for in vivo transcranial ultrasound focus localization: A comparison of three reconstruction methods. <i>NMR in Biomedicine</i> , 2021, 34, e4598.	2.8	1
461	Learning optical flow for fast MRI reconstruction. <i>Inverse Problems</i> , 2021, 37, 095007.	2.0	2
462	Free-breathing MR elastography of the lungs: An in vivo study. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 236-248.	3.0	3
463	Global and local constrained parallel MRI reconstruction by exploiting dual sparsity and self-consistency. <i>Biomedical Signal Processing and Control</i> , 2021, 70, 102922.	5.7	1
464	Dynamic contrast-enhanced magnetic resonance imaging of the lung reveals important pathobiology in idiopathic pulmonary fibrosis. <i>ERJ Open Research</i> , 2021, 7, 00907-2020.	2.6	8
465	Free-breathing Accelerated Cardiac MRI Using Deep Learning: Validation in Children and Young Adults. <i>Radiology</i> , 2021, 300, 539-548.	7.3	22
466	Diffusivity in breast malignancies analyzed for $b^* > 1000 \text{ s/mm}^2$ at 1 mm in-plane resolutions: Insight from Gaussian and non-Gaussian behaviors. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 1913-1925.	3.4	15
467	A Prior Learning Network for Joint Image and Sensitivity Estimation in Parallel MR Imaging. <i>Lecture Notes in Computer Science</i> , 2019, , 732-740.	1.3	4
468	Group-Sparsity Based Compressed Sensing Reconstruction for Fast Parallel MRI. <i>Lecture Notes in Computer Science</i> , 2019, , 70-77.	1.3	1
469	Fast Imaging. , 2015, , 63-86.		1
470	Efficient Preconditioning in Joint Total Variation Regularized Parallel MRI Reconstruction. <i>Lecture Notes in Computer Science</i> , 2015, , 563-570.	1.3	14
471	Three-dimensional Ultrashort Echotime Magnetic Resonance Imaging for Combined Morphologic and Ventilation Imaging in Pediatric Patients With Pulmonary Disease. <i>Journal of Thoracic Imaging</i> , 2021, 36, 43-51.	1.5	11
473	sRAKI-RNN: accelerated MRI with scan-specific recurrent neural networks using densely connected blocks. , 2019, , .		8

#	ARTICLE	IF	CITATIONS
474	Parallel magnetic resonance imaging reconstruction algorithm by three-dimension directional Haar tight framelet regularization. , 2019, , .		1
475	Self-Gated Free-Breathing 3D Coronary CINE Imaging with Simultaneous Water and Fat Visualization. PLoS ONE, 2014, 9, e89315.	2.5	15
476	A Convex Formulation for Magnetic Particle Imaging X-Space Reconstruction. PLoS ONE, 2015, 10, e0140137.	2.5	33
477	MR Image Reconstruction Using Block Matching and Adaptive Kernel Methods. PLoS ONE, 2016, 11, e0153736.	2.5	5
478	A Cylindrical, Inner Volume Selecting 2D-T2-Prep Improves GRAPPA-Accelerated Image Quality in MRA of the Right Coronary Artery. PLoS ONE, 2016, 11, e0163618.	2.5	2
479	Accelerated MRI with CIRCULAR Cartesian UnderSampling (CIRCUS): a variable density Cartesian sampling strategy for compressed sensing and parallel imaging. Quantitative Imaging in Medicine and Surgery, 2014, 4, 57-67.	2.0	33
480	In vivo diffusion spectrum imaging of non-human primate brain: initial experience in transcallosal fiber examination. Quantitative Imaging in Medicine and Surgery, 2014, 4, 129-35.	2.0	16
481	Prior ensemble learning. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1937-1945.	2.8	0
482	Accelerated Stack-of-Spirals Free-Breathing Three-Dimensional Ultrashort Echo Time Lung Magnetic Resonance Imaging: A Feasibility Study in Patients With Breast Cancer. Frontiers in Oncology, 2021, 11, 746059.	2.8	2
483	Scan-specific artifact reduction in k-space (SPARK) neural networks synergize with physics-based reconstruction to accelerate MRI. Magnetic Resonance in Medicine, 2022, 87, 764-780.	3.0	19
484	Pulmonary Imaging of Immunocompromised Patients during Hematopoietic Stem Cell Transplantation using Non-Contrast-Enhanced Three-Dimensional Ultrashort Echo Time (3D-UTE) MRI. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2022, 194, 39-48.	1.3	1
485	Defining Sub-Regions in Locally Sparsified Compressive Sensing MRI. , 2013, , .		3
487	Locally Sparsified Compressive Sensing in Magnetic Resonance Imaging. , 2015, , 195-209.		3
488	Calibrationless Parallel Dynamic MRI with Joint Temporal Sparsity. Lecture Notes in Computer Science, 2016, , 95-102.	1.3	1
489	Introduction to Compressed Sensing Magnetic Resonance Imaging. Springer Series on Bio- and Neurosystems, 2019, , 1-22.	0.2	1
490	Model-Based Convolutional De-Aliasing Network Learning for Parallel MR Imaging. Lecture Notes in Computer Science, 2019, , 30-38.	1.3	7
491	Multi-coil magnetic resonance imaging reconstruction with a Markov random field prior. , 2019, , .		0
492	Learning-based computational MRI reconstruction without big data: from linear interpolation and structured low-rank matrices to recurrent neural networks. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
493	A Quantitative Comparison of the Role of Parameter Selection for Regularization in GRAPPA-Based Autocalibrating Parallel MRI. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 35-45.	0.6	0
494	Experimental testing on phantom image for improved MRI compressed sensing. <i>Telfor Journal</i> , 2020, 12, 18-21.	0.7	0
495	Improving Quantitative Magnetic Resonance Imaging Using Deep Learning. <i>Seminars in Musculoskeletal Radiology</i> , 2020, 24, 451-459.	0.7	5
496	Enhancement-constrained acceleration: A robust reconstruction framework in breast DCE-MRI. <i>PLoS ONE</i> , 2021, 16, e0258621.	2.5	2
497	Data-Consistency in Latent Space and Online Update Strategy to Guide GAN for Fast MRI Reconstruction. <i>Lecture Notes in Computer Science</i> , 2020, , 82-90.	1.3	4
498	Deep Parallel MRI Reconstruction Network Without Coil Sensitivities. <i>Lecture Notes in Computer Science</i> , 2020, , 17-26.	1.3	2
499	A Phase Noise Correction Scheme for Multi-channel Multi-echo SWI Processing. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 71-82.	0.6	0
500	Applications of Quantitative Perfusion and Permeability in the Body. <i>Advances in Magnetic Resonance Technology and Applications</i> , 2020, , 427-454.	0.1	0
501	Magnetic Resonance Imaging (MRI). , 2020, , 253-319.		0
502	A Mini Review on Parallel Processing of Brain Magnetic Resonance Imaging. <i>Lecture Notes in Computer Science</i> , 2020, , 482-493.	1.3	1
503	Convolutional Framework for Accelerated Magnetic Resonance Imaging. , 2020, 2020, 1065-1068.		0
504	Fast, free-breathing, in vivo fetal imaging using time-resolved 3D MRI technique: preliminary results. <i>Quantitative Imaging in Medicine and Surgery</i> , 2014, 4, 123-8.	2.0	6
505	K-space refinement in deep learning MR reconstruction via regularizing scan specific SPIRiT-based self consistency. , 2021, , .		2
506	Aliasing-free reduced field-of-view parallel imaging. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 1574-1582.	3.0	3
507	Advances in spiral fMRI: A high-resolution study with single-shot acquisition. <i>NeuroImage</i> , 2022, 246, 118738.	4.2	18
508	Development of Low Rank Sparse Matrix Decomposition for Improving Spatial and Temporal Resolutions of MRI Medical Data. , 2021, , .		0
509	Efficient Online 4D Magnetic Resonance Imaging. , 2021, , .		1
510	Parallel MRI Reconstruction Using Broad Learning System. , 2021, 2021, 2704-2707.		4

#	ARTICLE	IF	CITATIONS
511	Iterative self-consistent parallel magnetic resonance imaging reconstruction based on nonlocal low-rank regularization. Magnetic Resonance Imaging, 2022, 88, 62-75.	1.8	2
512	Undersampled Multi-Contrast MRI Reconstruction Based on Double-Domain Generative Adversarial Network. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 4371-4377.	6.3	9
513	Acquisition sequences and reconstruction methods for fast chemical exchange saturation transfer imaging. NMR in Biomedicine, 2023, 36, e4699.	2.8	17
514	An optimal control framework for joint-channel parallel MRI reconstruction without coil sensitivities. Magnetic Resonance Imaging, 2022, , .	1.8	1
515	Convolutional neural network-based reconstruction for acceleration of prostate T ₂ weighted MR imaging: a retro- and prospective study. British Journal of Radiology, 2022, 95, 20211378.	2.2	5
516	Accelerated MRI Reconstruction With Separable and Enhanced Low-Rank Hankel Regularization. IEEE Transactions on Medical Imaging, 2022, 41, 2486-2498.	8.9	11
517	Automated Parameter Selection for Accelerated MRI Reconstruction via Low-Rank Modeling of Local k-Space Neighborhoods. Zeitschrift Fur Medizinische Physik, 2023, 33, 203-219.	1.5	3
518	On the shape of convolution kernels in MRI reconstruction: Rectangles versus ellipsoids. Magnetic Resonance in Medicine, 2022, 87, 2989-2996.	3.0	3
519	Cardiac MR: From Theory to Practice. Frontiers in Cardiovascular Medicine, 2022, 9, 826283.	2.4	18
520	Acceleration of Brain Susceptibility-Weighted Imaging with Compressed Sensitivity Encoding: A Prospective Multicenter Study. American Journal of Neuroradiology, 2022, 43, 402-409.	2.4	1
521	Highly accelerated 3D MPRAGE using deep neural network-based reconstruction for brain imaging in children and young adults. European Radiology, 2022, 32, 5468-5479.	4.5	6
522	Acceleration of pCASL-Based Cerebral 4D MR Angiography Using Compressed SENSE: A Comparison With SENSE. Frontiers in Neurology, 2022, 13, 796271.	2.4	1
523	SPRING-RIO TSE : 2D T ₂ -Weighted Turbo Spin-Echo brain imaging using SPIRAL RINGs with retraced in/out trajectories. Magnetic Resonance in Medicine, 2022, , .	3.0	3
524	Progressively volumetrized deep generative models for data-efficient contextual learning of MR image recovery. Medical Image Analysis, 2022, 78, 102429.	11.6	9
525	Accelerated image reconstruction with separable Hankel regularization in parallel MRI. , 2021, 2021, 3403-3406.		0
526	Improving Nonlinear Interpolation of K-Space Data Using Semi-Supervised Learning and Autoregressive Model. , 2021, 2021, 3057-3060.		2
527	DEep learning-based rapid Spiral Image REconstruction (DESIRE) for high-resolution spiral first-pass myocardial perfusion imaging. NMR in Biomedicine, 2022, 35, e4661.	2.8	8
528	A review on deep learning MRI reconstruction without fully sampled k-space. BMC Medical Imaging, 2021, 21, 195.	2.7	41

#	ARTICLE	IF	CITATIONS
529	Compressed Sensing in Sodium Magnetic Resonance Imaging: Techniques, Applications, and Future Prospects. Journal of Magnetic Resonance Imaging, 2022, 55, 1340-1356.	3.4	7
530	k-space based reconstruction method for wave encoded bSSFP sequence. , 2021, , .		0
531	Joint reconstruction framework of compressed sensing and nonlinear parallel imaging for dynamic cardiac magnetic resonance imaging. BMC Medical Imaging, 2021, 21, 182.	2.7	6
532	Improving high frequency image features of deep learning reconstructions via k-space refinement with null-space kernel. Magnetic Resonance in Medicine, 2022, , .	3.0	2
534	Accelerated MRI at 9.4 T with electronically modulated time-varying receive sensitivities. Magnetic Resonance in Medicine, 2022, 88, 742-756.	3.0	3
536	PUERT: Probabilistic Under-Sampling and Explicable Reconstruction Network for CS-MRI. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 737-749.	10.8	9
537	Universal Generative Modeling for Calibration-Free Parallel Mr Imaging. , 2022, , .		1
538	Rapid variable flip angle positive susceptibility contrast imaging for clinical metal seeds. Journal of Magnetic Resonance, 2022, 340, 107232.	2.1	0
539	Residual RAKI: A hybrid linear and non-linear approach for scan-specific k-space deep learning. NeuroImage, 2022, 256, 119248.	4.2	6
540	A tailor-made 3-dimensional directional Haar semi-tight framelet for pMRI reconstruction. Applied and Computational Harmonic Analysis, 2022, 60, 446-470.	2.2	3
541	Phase-Constrained Reconstruction Method with Compressed Sensing for Multi-Parametric Quantitative Magnetic Resonance Imaging. SSRN Electronic Journal, 0, , .	0.4	0
542	Cancellation of streak artifacts in radial abdominal imaging using interference null space projection. Magnetic Resonance in Medicine, 2022, 88, 1355-1369.	3.0	2
543	Multi-Domain Neumann Network with Sensitivity Maps for Parallel MRI Reconstruction. Sensors, 2022, 22, 3943.	3.8	4
544	A Slice- ℓ_{∞} Rank Plus Sparse ($\text{slice-}\ell_{\infty}$ - \hat{A}) Reconstruction Method for ℓ_1 Undersampled Multiband First-Pass Myocardial Perfusion MRI . Magnetic Resonance in Medicine, 0, , .	3.0	2
545	Multimodal Transformer for Accelerated MR Imaging. IEEE Transactions on Medical Imaging, 2023, 42, 2804-2816.	8.9	29
546	Accelerated 3D myelin water imaging using joint spatio-temporal reconstruction. Medical Physics, 2022, 49, 5929-5942.	3.0	2
547	Real-time MRI motion estimation through an unsupervised k-space-driven deformable registration network (KS-RegNet). Physics in Medicine and Biology, 2022, 67, 135012.	3.0	6
548	Compact pediatric cardiac magnetic resonance imaging protocols. Pediatric Radiology, 2023, 53, 1336-1351.	2.0	5

#	ARTICLE	IF	CITATIONS
549	Multi-mask self-supervised learning for physics-guided neural networks in highly accelerated magnetic resonance imaging. NMR in Biomedicine, 2022, 35, .	2.8	12
550	A dual-interpolator method for improving parallel MRI reconstruction. Magnetic Resonance Imaging, 2022, 92, 108-119.	1.8	3
551	<scp>Dual-domain</scp> reconstruction network with <scp>Vâ€Net</scp> and <scp>Kâ€Net</scp> for fast <scp>MRI</scp>. Magnetic Resonance in Medicine, 2022, 88, 2694-2708.	3.0	12
552	Semi-Supervised Learning of MRI Synthesis Without Fully-Sampled Ground Truths. IEEE Transactions on Medical Imaging, 2022, 41, 3895-3906.	8.9	9
553	Recurrent Variational Network: A Deep Learning Inverse Problem Solver applied to the task of Accelerated MRI Reconstruction. , 2022, , .		16
554	Learning Optimal K-space Acquisition and Reconstruction using Physics-Informed Neural Networks. , 2022, , .		4
555	Virtual Conjugate Coil for Improving KerNL Reconstruction. , 2022, , .		1
556	Motion detection and correction for carotid MRI using a markerless optical system. Magnetic Resonance Imaging, 2022, , .	1.8	1
557	Magnetic Resonance Imaging Basics. Advances in Experimental Medicine and Biology, 2022, , 47-82.	1.6	6
558	PARCEL: Physics-based Unsupervised Contrastive Representation Learning for Multi-coil MR Imaging. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, , 1-12.	3.0	4
559	One-Dimensional Deep Low-Rank and Sparse Network for Accelerated MRI. IEEE Transactions on Medical Imaging, 2023, 42, 79-90.	8.9	11
560	12. Noncontrast MR Angiography. Japanese Journal of Radiological Technology, 2022, 78, 1210-1216.	0.1	0
561	Iterative training of robust kâ€space interpolation networks for improved image reconstruction with limited scan specific training samples. Magnetic Resonance in Medicine, 2023, 89, 812-827.	3.0	0
562	Deep, deep learning with BART. Magnetic Resonance in Medicine, 0, , .	3.0	3
563	A unified model for reconstruction and $\text{http://www.w3.org/1998/Math/MathML}$ altimg="si13.svg"> <mml:msubsup> <mml:mi>R</mml:mi> <mml:mrow> <mml:mn>2</mml:mn> </mml:mrow> <mml:mo>*</mml:mo> </mml:mo> </mml:mo> mapping of accelerated 7T data using the quantitative recurrent inference machine. NeuroImage, 2022, 264, 119680.		
564	MR motion correction in musculoskeletal imaging. Advances in Magnetic Resonance Technology and Applications, 2023, , 371-382.	0.1	0
565	Sparse Reconstruction. Advances in Magnetic Resonance Technology and Applications, 2022, , 189-221.	0.1	0
566	â€œEarlyâ€-Constrained Reconstruction Methods. Advances in Magnetic Resonance Technology and Applications, 2022, , 105-125.	0.1	2

#	ARTICLE	IF	CITATIONS
567	Simultaneous Multislice Reconstruction. Advances in Magnetic Resonance Technology and Applications, 2022, , 159-187.	0.1	0
568	Parallel Imaging. Advances in Magnetic Resonance Technology and Applications, 2022, , 129-157.	0.1	0
569	Joint Kâ€space and Imageâ€space Parallel Imaging (<scp>KIPI</scp>) for accelerated chemical exchange saturation transfer acquisition. Magnetic Resonance in Medicine, 2023, 89, 922-936.	3.0	5
570	Feasibility of ultrashort echo time quantitative susceptibility mapping with a 3D cones trajectory in the human brain. Frontiers in Neuroscience, 0, 16, .	2.8	5
571	Phase-constrained reconstruction method with compressed sensing for multi-parametric quantitative magnetic resonance imaging. Biomedical Signal Processing and Control, 2023, 80, 104383.	5.7	3
572	Wave-Encoded Model-Based Deep Learning for Highly Accelerated Imaging with Joint Reconstruction. Bioengineering, 2022, 9, 736.	3.5	7
573	A <scp>3D stackâ€ofâ€spirals</scp> approach for rapid hyperpolarized <scp>¹²⁹Xe</scp> ventilation mapping in pediatric cystic fibrosis lung disease. Magnetic Resonance in Medicine, 2023, 89, 1083-1091.	3.0	6
574	<scp>JSENSEâ€Pro</scp>: Joint sensitivity estimation and image reconstruction in parallel imaging using p<scp>reâ€learned</scp> subspaces of coil sensitivity functions. Magnetic Resonance in Medicine, 2023, 89, 1531-1542.	3.0	2
575	Nonâ€local lowâ€rank constraintâ€based selfâ€consistent PMRI reconstruction using eigenvector maps. IET Signal Processing, 0, , .	1.5	0
576	A 2D-GRAPPA Algorithm with a Boomerang Kernel for 3D MRI Data Accelerated along Two Phase-Encoding Directions. Sensors, 2023, 23, 93.	3.8	0
578	Fast and Calibrationless Low-Rank Parallel Imaging Reconstruction Through Unrolled Deep Learning Estimation of Multi-Channel Spatial Support Maps. IEEE Transactions on Medical Imaging, 2023, 42, 1644-1655.	8.9	3
580	Spatially and velocityâ€selective magnetization preparation for noncontrastâ€enhanced peripheral MR angiography. NMR in Biomedicine, 2023, 36, .	2.8	1
581	Reconstruction for <scp>7T</scp> highâ€resolution wholeâ€brain diffusion <scp>MRI</scp> using twoâ€stage N/2 ghost correction and <scp>L1â€SPIRiT</scp> without singleâ€band reference. Magnetic Resonance in Medicine, 0, , .	3.0	0
582	FFVN: An explicit feature fusion-based variational network for accelerated multi-coil MRI reconstruction. Magnetic Resonance Imaging, 2023, 97, 31-45.	1.8	3
583	Multi-weight respecification of scan-specific learning for parallel imaging. Magnetic Resonance Imaging, 2023, 97, 1-12.	1.8	1
584	Whole-Neck Non-Contrast-Enhanced MR Angiography Using Velocity Selective Magnetization Preparation. Tomography, 2023, 9, 60-69.	1.8	2
585	Multi-coil MRI by analytic continuation. Journal of Inverse and Ill-Posed Problems, 2023, .	1.0	0
586	Reproducibility of non-contrast enhanced multi breath-hold ultrashort echo time functional lung MRI. Magnetic Resonance Imaging, 2023, 98, 149-154.	1.8	1

#	ARTICLE	IF	CITATIONS
587	Recent advances in highly accelerated 3D MRI. Physics in Medicine and Biology, 0, , .	3.0	0
588	Region-focused multi-view transformer-based generative adversarial network for cardiac cine MRI reconstruction. Medical Image Analysis, 2023, 85, 102760.	11.6	17
589	Comparison of diagnostic quality of 3D ultrashort-echo-time techniques for pulmonary magnetic resonance imaging in free-breathing. Acta Radiologica, 0, , 028418512311513.	1.1	0
590	Multi-channel GAN-based calibration-free diffusion-weighted liver imaging with simultaneous coil sensitivity estimation and reconstruction. Frontiers in Oncology, 0, 13, .	2.8	0
591	Calibrationless reconstruction of $\langle \text{sc} \rangle$ uniformly ϵ -undersampled multi ϵ -channel MR $\langle \text{sc} \rangle$ data with deep learning estimated $\langle \text{sc} \rangle$ ESPIRiT $\langle \text{sc} \rangle$ maps. Magnetic Resonance in Medicine, 0, , .	3.0	0
592	Accelerated SPIRiT Parallel MR Image Reconstruction Based on Joint Sparsity and Sparsifying Transform Learning. IEEE Transactions on Computational Imaging, 2023, 9, 276-288.	4.4	2
594	Rapid whole-brain quantitative MT imaging. Zeitschrift Fur Medizinische Physik, 2023, , .	1.5	0
595	Highly accelerated intracranial time ϵ -of ϵ -flight magnetic resonance angiography using wave ϵ -encoding. Magnetic Resonance in Medicine, 0, , .	3.0	0
596	Parallel imaging reconstruction using spatial nulling maps. Magnetic Resonance in Medicine, 0, , .	3.0	0
597	Accelerated submillimeter wave ϵ -encoded magnetic resonance imaging via deep untrained neural network. Medical Physics, 2023, 50, 7684-7699.	3.0	0
598	AI in MRI: Computational Frameworks for a Faster, Optimized, and Automated Imaging Workflow. Bioengineering, 2023, 10, 492.	3.5	2
599	Clinical Impact of Deep Learning Reconstruction in MRI. Radiographics, 2023, 43, .	3.3	6
600	Sampling strategies and integrated reconstruction for reducing distortion and boundary slice aliasing in high ϵ -resolution $\langle \text{sc} \rangle$ 3D $\langle \text{sc} \rangle$ diffusion $\langle \text{sc} \rangle$ MRI $\langle \text{sc} \rangle$. Magnetic Resonance in Medicine, 2023, 90, 1484-1501.	3.0	0
601	AI-assisted compressed sensing and parallel imaging sequences for MRI of patients with nasopharyngeal carcinoma: comparison of their capabilities in terms of examination time and image quality. European Radiology, 2023, 33, 7686-7696.	4.5	1
602	K-UNN: $\langle \text{mml}:\text{math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si309.svg" display="inline" id="d1e1823">\langle \text{mml}:\text{mi} \rangle k \langle \text{mml}:\text{mi} \rangle \langle \text{mml}:\text{math} \rangle$ -space interpolation with untrained neural network. Medical Image Analysis, 2023, 88, 102877.	11.6	3
603	Model-Based Simultaneous Multi-Slice (SMS) Reconstruction with Hankel Subspace Learning for Accelerated MR T1 Mapping. Mathematics, 2023, 11, 2963.	2.2	0
604	Lung Function in Patients with Cystic Fibrosis before and during $\langle i \rangle$ CFTR $\langle /i \rangle$ -Modulator Therapy Using 3D Ultrashort Echo Time MRI. Radiology, 2023, 308, .	7.3	3
605	A Physics-Based Algorithm to Universally Standardize Routinely Obtained Clinical T2-Weighted Images. Academic Radiology, 2024, 31, 582-595.	2.5	0

#	ARTICLE	IF	CITATIONS
606	Equilibrated Zeroth-Order Unrolled Deep Network for Parallel MR Imaging. IEEE Transactions on Medical Imaging, 2023, 42, 3540-3554.	8.9	2
607	MRI-guided robot interventionâ€”current state-of-the-art and new challenges. , 2023, 1, .		2
608	Semiautomated Segmentation and Analysis of Airway Lumen in Pediatric Patients UsingÂUltra Short Echo Time MRI. Academic Radiology, 2024, 31, 648-659.	2.5	0
609	WKGM: weighted k -space generative model for parallel imaging reconstruction. NMR in Biomedicine, 0, , .	2.8	0
610	Accelerating 4D image reconstruction for magnetic resonance-guided radiotherapy. Physics and Imaging in Radiation Oncology, 2023, 27, 100484.	2.9	2
611	Emerging Trends in Fast MRI Using Deep-Learning Reconstruction on Undersampled k -Space Data: A Systematic Review. Bioengineering, 2023, 10, 1012.	3.5	7
612	Joint Image Reconstruction and Super-Resolution for Accelerated Magnetic Resonance Imaging. Bioengineering, 2023, 10, 1107.	3.5	0
613	Rapid MR elastography of the liver for subsecond stiffness sampling. Magnetic Resonance in Medicine, 2024, 91, 312-324.	3.0	0
614	Six-minute, in vivo MRI quantification of proximal femur trabecular bone 3D microstructure. Bone, 2023, 177, 116900.	2.9	1
615	A characterization of cardiacâ€induced noise in R^2 maps of the brain. Magnetic Resonance in Medicine, 2024, 91, 237-251.	3.0	1
616	Improved Simultaneous Multi-slice imaging with Composition of k -space Interpolations (SMS-COOKIE) for myocardial T1 mapping. PLoS ONE, 2023, 18, e0283972.	2.5	1
617	Parallel imaging and reconstruction techniques. Advances in Magnetic Resonance Technology and Applications, 2023, , 139-159.	0.1	0
618	Acceleration methods for perfusion imaging. Advances in Magnetic Resonance Technology and Applications, 2023, , 253-289.	0.1	0
619	3D FRONSAC with PSF reconstruction. Journal of Magnetic Resonance, 2023, 355, 107544.	2.1	0
620	An Unrolled Implicit Regularization Network for Joint Image and Sensitivity Estimation in Parallel MR Imaging with Convergence Guarantee. SIAM Journal on Imaging Sciences, 2023, 16, 1791-1824.	2.2	1
621	Fast Parallel Magnetic Resonance Imaging Reconstruction Based on Sparsifying Transform Learning and Structured Low-Rank Model. Journal of Shanghai Jiaotong University (Science), 0, , .	0.9	0
622	Global k -Space Interpolation forÂDynamic MRI Reconstruction Using Masked Image Modeling. Lecture Notes in Computer Science, 2023, , 228-238.	1.3	0
623	AliasNet: Alias artefact suppression network for accelerated phase-encode MRI. Magnetic Resonance Imaging, 2023, , .	1.8	0

#	ARTICLE	IF	CITATIONS
624	Parallel-stream fusion of scan-specific and scan-general priors for learning deep MRI reconstruction in low-data regimes. Computers in Biology and Medicine, 2023, 167, 107610.	7.0	1
625	Learning Sampling and Reconstruction Using Bregman Iteration for CS-MRI. Electronics (Switzerland), 2023, 12, 4657.	3.1	0
626	MD-GraphFormer: A Model-Driven Graph Transformer for Fast Multi-Contrast MR Imaging. IEEE Transactions on Computational Imaging, 2023, 9, 1018-1030.	4.4	0
627	MA-RECON: Mask-aware deep-neural-network for robust fast MRI k-space interpolation. Computer Methods and Programs in Biomedicine, 2024, 244, 107942.	4.7	0
628	Feasibility of undersampled spiral trajectories in <scp>MREPT</scp> for fast conductivity imaging. Magnetic Resonance in Medicine, 0, , .	3.0	0
629	Magnetic resonance coherence pathway unraveling. Journal of Magnetic Resonance, 2024, 358, 107613.	2.1	0
630	Deep unfolding as iterative regularization for imaging inverse problems. Inverse Problems, 2024, 40, 025011.	2.0	0
631	On retrospective k-space subsampling schemes for deep MRI reconstruction. Magnetic Resonance Imaging, 2024, 107, 33-46.	1.8	1
632	AVS-Net: Attention-based Variable Splitting Network for P-MRI Acceleration. , 2023, , .		0
633	High efficiency free-breathing 3D thoracic aorta vessel wall imaging using self-gating image reconstruction. Magnetic Resonance Imaging, 2024, 107, 80-87.	1.8	0
634	Accelerating Cardiac MRI viaÂDeblurring Without Sensitivity Estimation. Lecture Notes in Computer Science, 2024, , 283-292.	1.3	0
635	T1 andÂT2 Mapping Reconstruction Based onÂConditional DDPM. Lecture Notes in Computer Science, 2024, , 303-313.	1.3	0
636	k-t CLAIR: Self-consistency Guided Multi-prior Learning forÂDynamic Parallel MR Image Reconstruction. Lecture Notes in Computer Science, 2024, , 314-325.	1.3	0
637	Learn Stable MRI Under-Sampling Pattern With Decoupled Sampling Preference. IEEE Transactions on Computational Imaging, 2024, 10, 246-260.	4.4	0
638	Variable augmentation network for invertible MR coil compression. Magnetic Resonance Imaging, 2024, 108, 116-128.	1.8	0
639	Improved temporal resolution and acceleration on 4D-MR angiography based on superselective pseudo-continuous arterial spin labeling combined with CENTRA-keyhole and view-sharing (4D-S-PACK) using an interpolation algorithm on the temporal axis and compressed sensingâ€“sensitivity encoding (CS-SENSE). Magnetic Resonance Imaging, 2024, 109, 1-9.	1.8	0
640	Improved Complex Convolutional Neural Network Based on SPIRiT and Dense Connection for Parallel MRI Reconstruction. IET Signal Processing, 2024, 2024, 1-13.	1.5	0
641	Integrating data distribution prior via Langevin dynamics for endâ€“toâ€“end <scp>MR</scp> reconstruction. Magnetic Resonance in Medicine, 2024, 92, 202-214.	3.0	0