

Michael Lustig

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

9,678
citations

33
h-index

87
g-index

87
ext. papers

11,562
ext. citations

5.5
avg, IF

6.35
L-index

#	Paper	IF	Citations
84	Sparse MRI: The application of compressed sensing for rapid MR imaging. <i>Magnetic Resonance in Medicine</i> , 2007 , 58, 1182-95	4.4	4118
83	Compressed Sensing MRI. <i>IEEE Signal Processing Magazine</i> , 2008 , 25, 72-82	9.4	1117
82	ESPIRiT--an eigenvalue approach to autocalibrating parallel MRI: where SENSE meets GRAPPA. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 990-1001	4.4	577
81	SPIRiT: Iterative self-consistent parallel imaging reconstruction from arbitrary k-space. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 457-71	4.4	505
80	Calibrationless parallel imaging reconstruction based on structured low-rank matrix completion. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 959-70	4.4	210
79	Fast ℓ_1 -ESPIRiT compressed sensing parallel imaging MRI: scalable parallel implementation and clinically feasible runtime. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 1250-62	11.7	198
78	Improved pediatric MR imaging with compressed sensing. <i>Radiology</i> , 2010 , 256, 607-16	20.5	180
77	Fast dynamic 3D MR spectroscopic imaging with compressed sensing and multiband excitation pulses for hyperpolarized ^{13}C studies. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 610-9	4.4	159
76	Compressed sensing for resolution enhancement of hyperpolarized ^{13}C flyback 3D-MRSI. <i>Journal of Magnetic Resonance</i> , 2008 , 192, 258-64	3	155
75	Coil compression for accelerated imaging with Cartesian sampling. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 571-82	4.4	128
74	3D compressed sensing for highly accelerated hyperpolarized (^{13}C) MRSI with in vivo applications to transgenic mouse models of cancer. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 312-21	4.4	116
73	Free-breathing pediatric MRI with nonrigid motion correction and acceleration. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 42, 407-20	5.6	106
72	Pulse sequence for dynamic volumetric imaging of hyperpolarized metabolic products. <i>Journal of Magnetic Resonance</i> , 2008 , 193, 139-46	3	106
71	Multi-Scale Dictionary Learning Using Wavelets. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2011 , 5, 1014-1024	7.5	104
70	Screen-printed flexible MRI receive coils. <i>Nature Communications</i> , 2016 , 7, 10839	17.4	102
69	T shuffling: Sharp, multicontrast, volumetric fast spin-echo imaging. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 180-195	4.4	80
68	Hybrid referenceless and multibaseline subtraction MR thermometry for monitoring thermal therapies in moving organs. <i>Medical Physics</i> , 2010 , 37, 5014-26	4.4	80

67	Rapid pediatric cardiac assessment of flow and ventricular volume with compressed sensing parallel imaging volumetric cine phase-contrast MRI. <i>American Journal of Roentgenology</i> , 2012 , 198, W250-9	5.4	79
66	A fast method for designing time-optimal gradient waveforms for arbitrary k-space trajectories. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 866-73	11.7	79
65	Investigation of tumor hyperpolarized [1-13C]-pyruvate dynamics using time-resolved multiband RF excitation echo-planar MRSI. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 582-91	4.4	77
64	Fast pediatric 3D free-breathing abdominal dynamic contrast enhanced MRI with high spatiotemporal resolution. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 460-73	5.6	68
63	Comprehensive motion-compensated highly accelerated 4D flow MRI with ferumoxytol enhancement for pediatric congenital heart disease. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 43, 1355-68	5.6	68
62	Nonrigid motion correction in 3D using autofocusing with localized linear translations. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 1785-97	4.4	67
61	Venous and arterial flow quantification are equally accurate and precise with parallel imaging compressed sensing 4D phase contrast MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2013 , 37, 1419-26	5.6	67
60	Evaluation of valvular insufficiency and shunts with parallel-imaging compressed-sensing 4D phase-contrast MR imaging with stereoscopic 3D velocity-fusion volume-rendered visualization. <i>Radiology</i> , 2012 , 265, 87-95	20.5	66
59	Single breath-hold whole-heart MRA using variable-density spirals at 3T. <i>Magnetic Resonance in Medicine</i> , 2006 , 55, 371-9	4.4	66
58	Clinical performance of contrast enhanced abdominal pediatric MRI with fast combined parallel imaging compressed sensing reconstruction. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 40, 13-25	5.6	61
57	Compressed sensing for chemical shift-based water-fat separation. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 1749-59	4.4	52
56	Improving non-contrast-enhanced steady-state free precession angiography with compressed sensing. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 1122-31	4.4	48
55	Advances in pediatric body MRI. <i>Pediatric Radiology</i> , 2011 , 41 Suppl 2, 549-54	2.8	40
54	Rewighted ℓ_1 referenceless PRF shift thermometry. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 1068-77	4.4	39
53	Robust 4D flow denoising using divergence-free wavelet transform. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 828-42	4.4	37
52	Inlet and outlet valve flow and regurgitant volume may be directly and reliably quantified with accelerated, volumetric phase-contrast MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 376-85	5.6	36
51	Motion robust high resolution 3D free-breathing pulmonary MRI using dynamic 3D image self-navigator. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 2954-2967	4.4	33
50	Beyond Low Rank + Sparse: Multi-scale Low Rank Matrix Decomposition. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2016 , 10, 672-687	7.5	31

49	Time-optimal design for multidimensional and parallel transmit variable-rate selective excitation. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 1471-9	4.4	30
48	A Convex Formulation for Magnetic Particle Imaging X-Space Reconstruction. <i>PLoS ONE</i> , 2015 , 10, e0140377	3.7	28
47	Concentric rings K-space trajectory for hyperpolarized (13)C MR spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 19-31	4.4	27
46	Comprehensive Multi-Dimensional MRI for the Simultaneous Assessment of Cardiopulmonary Anatomy and Physiology. <i>Scientific Reports</i> , 2017 , 7, 5330	4.9	26
45	An Efficient Method for Compressed Sensing 2007 ,		26
44	Imaging Renal Urea Handling in Rats at Millimeter Resolution using Hyperpolarized Magnetic Resonance Relaxometry. <i>Tomography</i> , 2016 , 2, 125-135	3.1	26
43	A method for simultaneous echo planar imaging of hyperpolarized ^{13}C pyruvate and ^{13}C lactate. <i>Journal of Magnetic Resonance</i> , 2012 , 217, 41-7	3	23
42	Signal compensation and compressed sensing for magnetization-prepared MR angiography. <i>IEEE Transactions on Medical Imaging</i> , 2011 , 30, 1017-27	11.7	23
41	Root-flipped multiband refocusing pulses. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 227-37	4.4	23
40	Rapid single-breath-hold 3D late gadolinium enhancement cardiac MRI using a stack-of-spirals acquisition. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 40, 1496-502	5.6	22
39	Materials and methods for higher performance screen-printed flexible MRI receive coils. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 775-783	4.4	21
38	Iterative motion-compensation reconstruction ultra-short TE (iMoCo UTE) for high-resolution free-breathing pulmonary MRI. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 1208-1221	4.4	21
37	Evaluation of a Flexible 12-Channel Screen-printed Pediatric MRI Coil. <i>Radiology</i> , 2019 , 291, 180-185	20.5	20
36	A semiflexible 64-channel receive-only phased array for pediatric body MRI at 3T. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 1015-21	4.4	20
35	General phase regularized reconstruction using phase cycling. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 112-125	4.4	20
34	Feasibility of ferumoxytol-enhanced neonatal and young infant cardiac MRI without general anesthesia. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 45, 1407-1418	5.6	19
33	Memory-Efficient Learning for Large-Scale Computational Imaging. <i>IEEE Transactions on Computational Imaging</i> , 2020 , 6, 1403-1414	4.5	18
32	Printed Receive Coils with High Acoustic Transparency for Magnetic Resonance Guided Focused Ultrasound. <i>Scientific Reports</i> , 2018 , 8, 3392	4.9	16

31	Improved quantification and mapping of anomalous pulmonary venous flow with four-dimensional phase-contrast MRI and interactive streamline rendering. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 42, 1765-76	5.6	16
30	Development and testing of hyperpolarized (13)C MR calibrationless parallel imaging. <i>Journal of Magnetic Resonance</i> , 2016 , 262, 1-7	3	14
29	Estimating absolute-phase maps using ESPIRiT and virtual conjugate coils. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 1201-1207	4.4	13
28	Multiple-coil k-space interpolation enhances resolution in single-shot spatiotemporal MRI. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 796-805	4.4	12
27	Clinical performance of a free-breathing spatiotemporally accelerated 3-D time-resolved contrast-enhanced pediatric abdominal MR angiography. <i>Pediatric Radiology</i> , 2015 , 45, 1635-43	2.8	11
26	Extreme MRI: Large-scale volumetric dynamic imaging from continuous non-gated acquisitions. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 1763-1780	4.4	11
25	VERSE-guided numerical RF pulse design: a fast method for peak RF power control. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 353-62	4.4	11
24	ENLIVE: An Efficient Nonlinear Method for Calibrationless and Robust Parallel Imaging. <i>Scientific Reports</i> , 2019 , 9, 3034	4.9	10
23	BARKER-CODED NODE-PORE RESISTIVE PULSE SENSING WITH BUILT-IN COINCIDENCE CORRECTION. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2017 , 2017, 1053-1057	1.6	10
22	Fast comprehensive single-sequence four-dimensional pediatric knee MRI with T shuffling. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 45, 1700-1711	5.6	10
21	Implicit data crimes: Machine learning bias arising from misuse of public data.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2117203119	11.5	9
20	Chemical shift separation with controlled aliasing for hyperpolarized (13) C metabolic imaging. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 978-89	4.4	8
19	Node-Pore Coded Coincidence Correction: Coulter Counters, Code Design, and Sparse Deconvolution. <i>IEEE Sensors Journal</i> , 2018 , 18, 3068-3079	4	7
18	Simultaneous auto-calibration and gradient delays estimation (SAGE) in non-Cartesian parallel MRI using low-rank constraints. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 2006-2016	4.4	7
17	Three-dimensional magnetization-prepared imaging using a concentric cylinders trajectory. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 1700-10	4.4	7
16	Targeted rapid knee MRI exam using T shuffling. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 49, e195-e204	5.2	7
15	Parallel Magnetic Resonance Imaging as Approximation in a Reproducing Kernel Hilbert Space. <i>Inverse Problems</i> , 2015 , 31, 045008	2.3	6
14	Phase-encoded xSPEN: A novel high-resolution volumetric alternative to RARE MRI. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 1492-1506	4.4	6

13	Multiband RF pulses with improved performance via convex optimization. <i>Journal of Magnetic Resonance</i> , 2016 , 262, 81-90	3	6
12	Near-silent distortionless DWI using magnetization-prepared RUFIS. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 170-181	4.4	6
11	Computational MRI with Physics-based Constraints: Application to Multi-contrast and Quantitative Imaging. <i>IEEE Signal Processing Magazine</i> , 2020 , 37, 94-104	9.4	4
10	Motion-resolved quantitative phase imaging. <i>Biomedical Optics Express</i> , 2018 , 9, 5456-5466	3.5	4
9	The Empirical Effect of Gaussian Noise in Undersampled MRI Reconstruction. <i>Tomography</i> , 2017 , 3, 211-221	3.1	4
8	Accelerating Non-Cartesian MRI Reconstruction Convergence Using k-Space Preconditioning. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 1646-1654	11.7	4
7	Beyond low rank + sparse: Multi-scale low rank matrix decomposition 2016 ,		4
6	Regularized referenceless temperature estimation in PRF-shift MR thermometry 2009 ,		3
5	Indigo: A Domain-Specific Language for Fast, Portable Image Reconstruction 2018 ,		1
4	SURE-based automatic parameter selection for ESPIRiT calibration. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 3423-3437	4.4	1
3	Quantitative anatomy mimicking slice phantoms. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 1159-1166	4.4	1
2	DiSpect: Displacement spectrum imaging of flow and tissue perfusion using spin-labeling and stimulated echoes. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 2468-2481	4.4	0
1	Memory-Efficient Learning for High-Dimensional MRI Reconstruction. <i>Lecture Notes in Computer Science</i> , 2021 , 461-470	0.9	0