

# Leslie Ying

## List of Publications by Year in descending order

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Version: 2024-02-01

129  
papers

3,540  
citations

201385

27  
h-index

189595

50  
g-index

132  
all docs

132  
docs citations

132  
times ranked

2728  
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerating magnetic resonance imaging via deep learning. , 2016, 2016, 514-517.		455
2	Accelerating SENSE using compressed sensing. Magnetic Resonance in Medicine, 2009, 62, 1574-1584.	1.9	369
3	Deep Magnetic Resonance Image Reconstruction: Inverse Problems Meet Neural Networks. IEEE Signal Processing Magazine, 2020, 37, 141-151.	4.6	218
4	Joint image reconstruction and sensitivity estimation in SENSE (JSSENSE). Magnetic Resonance in Medicine, 2007, 57, 1196-1202.	1.9	213
5	DeepcomplexMRI: Exploiting deep residual network for fast parallel MR imaging with complex convolution. Magnetic Resonance Imaging, 2020, 68, 136-147.	1.0	120
6	Compressed Sensing Dynamic Cardiac Cine MRI Using Learned Spatiotemporal Dictionary. IEEE Transactions on Biomedical Engineering, 2014, 61, 1109-1120.	2.5	95
7	Adaptive Dictionary Learning in Sparse Gradient Domain for Image Recovery. IEEE Transactions on Image Processing, 2013, 22, 4652-4663.	6.0	90
8	Sensitivity encoding reconstruction with nonlocal total variation regularization. Magnetic Resonance in Medicine, 2011, 65, 1384-1392.	1.9	83
9	ISD: Dynamic cardiac MR imaging using compressed sensing with iterative support detection. Magnetic Resonance in Medicine, 2012, 68, 41-53.	1.9	82
10	Regularized sensitivity encoding (SENSE) reconstruction using bregman iterations. Magnetic Resonance in Medicine, 2009, 61, 145-152.	1.9	73
11	Compressed-sensing photoacoustic computed tomography in vivo with partially known support. Optics Express, 2012, 20, 16510.	1.7	66
12	Nonlinear GRAPPA: A kernel approach to parallel MRI reconstruction. Magnetic Resonance in Medicine, 2012, 68, 730-740.	1.9	66
13	Functional MRI in the assessment of cortical activation during gait-related imaginary tasks. Journal of Neural Transmission, 2009, 116, 1087-1092.	1.4	64
14	A Kernel-Based Low-Rank (KLR) Model for Low-Dimensional Manifold Recovery in Highly Accelerated Dynamic MRI. IEEE Transactions on Medical Imaging, 2017, 36, 2297-2307.	5.4	59
15	Parallel MRI Using Phased Array Coils. IEEE Signal Processing Magazine, 2010, 27, 90-98.	4.6	57
16	Learning Joint-Sparse Codes for Calibration-Free Parallel MR Imaging. IEEE Transactions on Medical Imaging, 2018, 37, 251-261.	5.4	56
17	DIMENSION: Dynamic MR imaging with both k-space and spatial prior knowledge obtained via multi-supervised network training. NMR in Biomedicine, 2022, 35, e4131.	1.6	53
18	Artificial Neural Network Enhanced Bayesian PET Image Reconstruction. IEEE Transactions on Medical Imaging, 2018, 37, 1297-1309.	5.4	46

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19	Metabolomic Imaging for Human Prostate Cancer Detection. <i>Science Translational Medicine</i> , 2010, 2, 16ra8.	5.8	44
20	Accelerated MR diffusion tensor imaging using distributed compressed sensing. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 763-772.	1.9	43
21	Accelerated exponential parameterization of T2 relaxation with model-driven low rank and sparsity priors (MORASA). <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1865-1878.	1.9	43
22	On Tikhonov regularization for image reconstruction in parallel MRI. , 2004, 2004, 1056-9.		41
23	Learned Low-Rank Priors in Dynamic MR Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 3698-3710.	5.4	41
24	A statistical approach to SENSE regularization with arbitrary $k$ -space trajectories. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 414-421.	1.9	40
25	Toeplitz block matrices in compressed sensing and their applications in imaging. , 2008, , .		38
26	Accelerating $k$ -space cartilage imaging using compressed sensing with iterative locally adapted support detection and JSSENSE. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1617-1629.	1.9	37
27	Model Learning: Primal Dual Networks for Fast MR Imaging. <i>Lecture Notes in Computer Science</i> , 2019, , 21-29.	1.0	33
28	A New Deep Learning Network for Mitigating Limited-view and Under-sampling Artifacts in Ring-shaped Photoacoustic Tomography. <i>Computerized Medical Imaging and Graphics</i> , 2020, 84, 101720.	3.5	32
29	Deep low-Rank plus sparse network for dynamic MR imaging. <i>Medical Image Analysis</i> , 2021, 73, 102190.	7.0	32
30	Sparsity-constrained PET image reconstruction with learned dictionaries. <i>Physics in Medicine and Biology</i> , 2016, 61, 6347-6368.	1.6	27
31	Compressed-sensing Photoacoustic Imaging based on random optical illumination. <i>International Journal of Functional Informatics and Personalised Medicine</i> , 2009, 2, 394.	0.4	26
32	Sparse BLIP: BLind Iterative Parallel imaging reconstruction using compressed sensing. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 645-660.	1.9	26
33	SuperDTI: Ultrafast DTI and fiber tractography with deep learning. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 3334-3347.	1.9	26
34	Accelerating multicolor spectroscopic single-molecule localization microscopy using deep learning. <i>Biomedical Optics Express</i> , 2020, 11, 2705.	1.5	26
35	Sparsesense: Application of compressed sensing in parallel MRI. , 2008, , .		24
36	An unsupervised deep learning method for multi-coil cine MRI. <i>Physics in Medicine and Biology</i> , 2020, 65, 235041.	1.6	21

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37	Improving GRAPPA using cross-sampled autocalibration data. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1042-1053.	1.9	20
38	Iterative feature refinement for accurate undersampled MR image reconstruction. <i>Physics in Medicine and Biology</i> , 2016, 61, 3291-3316.	1.6	20
39	Learning Data Consistency and its Application to Dynamic MR Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 3140-3153.	5.4	20
40	Diagnostic interchangeability of deep convolutional neural networks reconstructed knee MR images: preliminary experience. <i>Quantitative Imaging in Medicine and Surgery</i> , 2020, 10, 1748-1762.	1.1	19
41	A new single acquisition, two-image difference method for determining MR image SNR. <i>Medical Physics</i> , 2009, 36, 662-671.	1.6	18
42	Translational-invariant dictionaries for compressed sensing in magnetic resonance imaging. , 2011, , .		17
43	Bi-Linear Modeling of Data Manifolds for Dynamic-MRI Recovery. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 688-702.	5.4	17
44	Pseudo 2D random sampling for compressed sensing MRI. , 2009, 2009, 2672-5.		16
45	Direct diffusion tensor estimation using a model-based method with spatial and parametric constraints. <i>Medical Physics</i> , 2017, 44, 570-580.	1.6	16
46	Acceleration of three-dimensional diffusion magnetic resonance imaging using a kernel low-rank compressed sensing method. <i>NeuroImage</i> , 2020, 210, 116584.	2.1	16
47	Accelerating sensitivity encoding using Compressed Sensing. , 2008, 2008, 1667-70.		15
48	SCOPE: signal compensation for low-rank plus sparse matrix decomposition for fast parameter mapping. <i>Physics in Medicine and Biology</i> , 2018, 63, 185009.	1.6	15
49	KerNL: Kernel-Based Nonlinear Approach to Parallel MRI Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 312-321.	5.4	15
50	Bio-SCOPE: fast biexponential $T_1$ mapping of the brain using signal-compensated low-rank plus sparse matrix decomposition. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 2092-2106.	1.9	15
51	Toeplitz random encoding MR imaging using compressed sensing. , 2009, , .		14
52	Undersampled dynamic magnetic resonance imaging using patch-based spatiotemporal dictionaries. , 2013, , .		14
53	Blind sparse inpainting reveals cytoskeletal filaments with sub-Nyquist localization. <i>Optica</i> , 2017, 4, 1277.	4.8	14
54	Computational MRI: Compressive Sensing and Beyond [From the Guest Editors]. <i>IEEE Signal Processing Magazine</i> , 2020, 37, 21-23.	4.6	14

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55	Machine-learning based spectral classification for spectroscopic single-molecule localization microscopy. Optics Letters, 2019, 44, 5864.	1.7	14
56	Sparsity-based PET image reconstruction using MRI learned dictionaries. , 2014, , .		13
57	Deep Manifold Learning for Dynamic MR Imaging. IEEE Transactions on Computational Imaging, 2021, 7, 1314-1327.	2.6	13
58	REGULARIZED SENSE RECONSTRUCTION USING ITERATIVELY REFINED TOTAL VARIATION METHOD. , 2007, , .		12
59	Compressed-sensing dynamic MR imaging with partially known support. , 2010, 2010, 2829-32.		11
60	Incorporating reference in parallel imaging and compressed sensing. Magnetic Resonance in Medicine, 2015, 73, 1490-1504.	1.9	11
61	Improved parallel image reconstruction using feature refinement. Magnetic Resonance in Medicine, 2018, 80, 211-223.	1.9	11
62	Truncation effects in SENSE reconstruction. Magnetic Resonance Imaging, 2006, 24, 1311-1318.	1.0	10
63	A kernel-based compressed sensing approach to dynamic MRI from highly undersampled data. , 2013, , .		10
64	Fast GRAPPA reconstruction with random projection. Magnetic Resonance in Medicine, 2015, 74, 71-80.	1.9	10
65	Initial testing of a 3D printed perfusion phantom using digital subtraction angiography. , 2015, 9417, .		10
66	Dynamic magnetic resonance imaging using compressed sensing with self-learned nonlinear dictionary (NL-D). , 2015, , .		10
67	M-MRI: A manifold-based framework to highly accelerated dynamic magnetic resonance imaging. , 2017, 2017, 19-22.		10
68	Tract-Based Spatial Statistics: Application to Mild Cognitive Impairment. BioMed Research International, 2014, 2014, 1-8.	0.9	9
69	Image reconstruction from phased-array data based on multichannel blind deconvolution. Magnetic Resonance Imaging, 2015, 33, 1106-1113.	1.0	9
70	Parallel Mri Reconstruction: A Filter-Bank Approach. , 2005, 2005, 1374-7.		8
71	SENSE reconstruction with nonlocal TV regularization. , 2009, 2009, 1032-5.		8
72	MLS: Joint manifold-learning and sparsity-aware framework for highly accelerated dynamic magnetic resonance imaging. , 2018, 2018, 1213-1216.		8

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73	Accelerating MR parameter mapping using nonlinear manifold learning and supervised pre-imaging. , 2015, , .		7
74	Accelerating MR Imaging via Deep Chambolle-Pock Network. , 2019, 2019, 6818-6821.		7
75	Image reconstruction from phased-array MRI data based on multichannel blind deconvolution. , 2010, , .		6
76	A model-based method with joint sparsity constraint for direct diffusion tensor estimation. , 2012, , .		6
77	Undersampled dynamic magnetic resonance imaging using kernel principal component analysis. , 2014, 2014, 1533-6.		6
78	Coil-combined split slice-GRAPPA for simultaneous multi-slice diffusion MRI. Magnetic Resonance Imaging, 2020, 66, 9-21.	1.0	6
79	Multi-scale Unrolled Deep Learning Framework for Accelerated Magnetic Resonance Imaging. , 2020, 2020, 1056-1059.		6
80	Determination of Fiber Orientation in MRI Diffusion Tensor Imaging Based on Higher-Order Tensor Decomposition. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2065-8.	0.5	5
81	JOINT ESTIMATION OF IMAGE AND COIL SENSITIVITIES IN PARALLEL SPIRAL MRI. , 2007, , .		5
82	k-t CSPI: A dynamic MRI reconstruction framework for combining compressed sensing and parallel imaging. , 2012, , .		5
83	Three-dimensional hybrid-encoded MRI using compressed sensing. , 2012, , .		5
84	Parallel imaging via sparse representation over a learned dictionary. , 2015, , .		5
85	Accelerating dynamic magnetic resonance imaging by nonlinear sparse coding. , 2016, 2016, 510-513.		5
86	Modified GAN Augmentation Algorithms for the MRI-Classification of Myocardial Scar Tissue in Ischemic Cardiomyopathy. Frontiers in Cardiovascular Medicine, 2021, 8, 726943.	1.1	5
87	Improved spiral sense reconstruction using a multiscale wavelet model. , 2008, , .		4
88	Ultrasound image de-noising through Karhunen-Loeve (K-L) transform with overlapping segments. , 2009, , .		4
89	Noise behavior of MR brain reconstructions using compressed sensing. , 2013, 2013, 5155-8.		4
90	Accurate T2 mapping with sparsity and linear predictability filtering. , 2014, , .		4

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91	Improved gradient-echo 3D magnetic resonance imaging using compressed sensing and Toeplitz encoding with phase-scrambled RF excitation. <i>Medical Physics</i> , 2020, 47, 1579-1589.	1.6	4
92	A 4-minute solution for submillimeter whole-brain T1-quantification. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 3299-3307.	1.9	4
93	Accelerating 3D single-molecule localization microscopy using blind sparse inpainting. <i>Journal of Biomedical Optics</i> , 2021, 26, .	1.4	4
94	Accelerating the 3D T1-mapping of cartilage using a signal-compensated robust tensor principal component analysis model. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 3376-3391.	1.1	4
95	Integrating Parallel Imaging with Generalized Series for Accelerated Dynamic Imaging. , 2005, 2005, 1434-7.		3
96	Parallel MRI Acceleration Using M-FOCUSS. , 2009, , .		3
97	Improved self-calibrated spiral parallel imaging using JSENSE. <i>Medical Engineering and Physics</i> , 2009, 31, 510-514.	0.8	3
98	Linear transformations and Restricted Isometry Property. , 2009, , .		3
99	A kernel approach to parallel MRI reconstruction. , 2011, , .		3
100	K-T ISD: Compressed sensing with iterative support detection for dynamic MRI. , 2011, , .		3
101	A hybrid total-variation minimization approach to compressed sensing. , 2012, , .		3
102	Highly accelerated 3D dynamic contrast enhanced MRI from sparse spiral sampling using integrated partial separability model and JSENSE. <i>Proceedings of SPIE</i> , 2014, , .	0.8	3
103	SecSAKE. , 2018, , .		3
104	Multi-Contrast Mr Reconstruction with Enhanced Denoising Autoencoder Prior Learning. , 2020, , .		3
105	An Efficient Non-Iterative Reconstruction Algorithm for Parallel MRI with Arbitrary K-Space Trajectories. , 2005, 2005, 1344-7.		2
106	Efficient GRAPPA reconstruction using random projection. , 2013, , .		2
107	Enabling high-speed wide-field dynamic imaging in multifocal photoacoustic computed microscopy: a simulation study. <i>Applied Optics</i> , 2016, 55, 3724.	2.1	2
108	Simultaneous image reconstruction and sensitivity estimation in parallel MRI using blind compressed sensing. , 2012, , .		1

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109	A kernel approach to compressed sensing parallel MRI. , 2012, , .		1
110	Conflict-cost based random sampling design for parallel MRI with low rank constraints. , 2015, , .		1
111	Recovery of parametric manifold from reduced measurements: Application to magnetic resonance parameter mapping. , 2015, , .		1
112	Highly accelerated cardiac cine parallel MRI using low-rank matrix completion and partial separability model. Proceedings of SPIE, 2016, , .	0.8	1
113	Enhancing Bayesian PET image reconstruction using neural networks. , 2017, , .		1
114	Bi-Linear modeling of manifold-data geometry for Dynamic-MRI recovery. , 2017, 2017, .		1
115	Improving image reconstructions for simultaneous multi-slice readout-segmented diffusion MRI data with phase errors. , 2018, , .		1
116	Fast Calculation Method of Average G-Factor for Wave-CAIPI Imaging. , 2019, , .		1
117	Kernel Bi-Linear Modeling for Reconstructing Data on Manifolds: The Dynamic-MRI Case. , 2021, , .		1
118	Kernel Regression Imputation in Manifolds Via Bi-Linear Modeling: The Dynamic-MRI Case. IEEE Transactions on Computational Imaging, 2022, 8, 133-147.	2.6	1
119	Application of perceptual difference model (PDM) on regularization techniques of parallel MR imaging. , 2005, , .		0
120	Joint Estimation of Coil Sensitivities and Image in Parallel Magnetic Resonance Imaging. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	0
121	A variable projection approach to parallel magnetic resonance imaging. , 2008, , .		0
122	Cross-sampled GRAPPA for parallel MRI. , 2010, 2010, 3325-8.		0
123	An efficient augmented Lagrangian algorithm for graph regularized sparse coding in clustering. , 2013, , .		0
124	Highly accelerated dynamic contrast-enhanced MRI with temporal constrained reconstruction. , 2014, 2014, 2408-11.		0
125	Improved myocardial perfusion PET imaging with MRI learned dictionaries. , 2014, , .		0
126	Guest Editorial EMBC 2014. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1291-1292.	3.9	0



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127	Optimization of the image reconstruction procedure in multi-focal photoacoustic computed tomography. , 2016, , .		0
128	A novel hybrid total variation minimization algorithm for compressed sensing. , 2017, , .		0
129	Accelerated 3D Localization Microscopy Using Blind Sparse Inpainting. , 2019, , .		0