

# 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	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
2	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
3	A 4-minute solution for submillimeter whole-brain T1-quantification. Magnetic Resonance in Medicine, 2021, 85, 3299-3307.	1.9	4
4	Learned Low-Rank Priors in Dynamic MR Imaging. IEEE Transactions on Medical Imaging, 2021, 40, 3698-3710.	5.4	41
5	Learning Data Consistency and its Application to Dynamic MR Imaging. IEEE Transactions on Medical Imaging, 2021, 40, 3140-3153.	5.4	20
6	Accelerating 3D single-molecule localization microscopy using blind sparse inpainting. Journal of Biomedical Optics, 2021, 26, .	1.4	4
7	SuperDTI: Ultrafast DTI and fiber tractography with deep learning. Magnetic Resonance in Medicine, 2021, 86, 3334-3347.	1.9	26
8	Accelerating the 3D T1-mapping of cartilage using a signal-compensated robust tensor principal component analysis model. Quantitative Imaging in Medicine and Surgery, 2021, 11, 3376-3391.	1.1	4
9	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
10	Deep low-Rank plus sparse network for dynamic MR imaging. Medical Image Analysis, 2021, 73, 102190.	7.0	32
11	Kernel Bi-Linear Modeling for Reconstructing Data on Manifolds: The Dynamic-MRI Case. , 2021, , .		1
12	Deep Manifold Learning for Dynamic MR Imaging. IEEE Transactions on Computational Imaging, 2021, 7, 1314-1327.	2.6	13
13	Bi-Linear Modeling of Data Manifolds for Dynamic-MRI Recovery. IEEE Transactions on Medical Imaging, 2020, 39, 688-702.	5.4	17
14	Improved gradient-echo 3D magnetic resonance imaging using compressed sensing and Toeplitz encoding with phase-scrambled RF excitation. Medical Physics, 2020, 47, 1579-1589.	1.6	4
15	Coil-combined split slice-GRAPPA for simultaneous multi-slice diffusion MRI. Magnetic Resonance Imaging, 2020, 66, 9-21.	1.0	6
16	BioSCOPE: fast biexponential T <sub>1</sub> mapping of the brain using signal-compensated low-rank plus sparse matrix decomposition. Magnetic Resonance in Medicine, 2020, 83, 2092-2106.	1.9	15
17	Diagnostic interchangeability of deep convolutional neural networks reconstructed knee MR images: preliminary experience. Quantitative Imaging in Medicine and Surgery, 2020, 10, 1748-1762.	1.1	19
18	Multi-scale Unrolled Deep Learning Framework for Accelerated Magnetic Resonance Imaging. , 2020, 2020, 1056-1059.		6

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19	Multi-Contrast Mr Reconstruction with Enhanced Denoising Autoencoder Prior Learning. , 2020, , .		3
20	A New Deep Learning Network for Mitigating Limited-view and Under-sampling Artifacts in Ring-shaped Photoacoustic Tomography. Computerized Medical Imaging and Graphics, 2020, 84, 101720.	3.5	32
21	DeepcomplexMRI: Exploiting deep residual network for fast parallel MR imaging with complex convolution. Magnetic Resonance Imaging, 2020, 68, 136-147.	1.0	120
22	Deep Magnetic Resonance Image Reconstruction: Inverse Problems Meet Neural Networks. IEEE Signal Processing Magazine, 2020, 37, 141-151.	4.6	218
23	Computational MRI: Compressive Sensing and Beyond [From the Guest Editors]. IEEE Signal Processing Magazine, 2020, 37, 21-23.	4.6	14
24	Acceleration of three-dimensional diffusion magnetic resonance imaging using a kernel low-rank compressed sensing method. NeuroImage, 2020, 210, 116584.	2.1	16
25	An unsupervised deep learning method for multi-coil cine MRI. Physics in Medicine and Biology, 2020, 65, 235041.	1.6	21
26	Accelerating multicolor spectroscopic single-molecule localization microscopy using deep learning. Biomedical Optics Express, 2020, 11, 2705.	1.5	26
27	KerNL: Kernel-Based Nonlinear Approach to Parallel MRI Reconstruction. IEEE Transactions on Medical Imaging, 2019, 38, 312-321.	5.4	15
28	Accelerated 3D Localization Microscopy Using Blind Sparse Inpainting. , 2019, , .		0
29	Fast Calculation Method of Average G-Factor for Wave-CAIPI Imaging. , 2019, , .		1
30	Accelerating MR Imaging via Deep Chambolle-Pock Network. , 2019, 2019, 6818-6821.		7
31	Model Learning: Primal Dual Networks for Fast MR Imaging. Lecture Notes in Computer Science, 2019, , 21-29.	1.0	33
32	Machine-learning based spectral classification for spectroscopic single-molecule localization microscopy. Optics Letters, 2019, 44, 5864.	1.7	14
33	Improved parallel image reconstruction using feature refinement. Magnetic Resonance in Medicine, 2018, 80, 211-223.	1.9	11
34	Learning Joint-Sparse Codes for Calibration-Free Parallel MR Imaging. IEEE Transactions on Medical Imaging, 2018, 37, 251-261.	5.4	56
35	Artificial Neural Network Enhanced Bayesian PET Image Reconstruction. IEEE Transactions on Medical Imaging, 2018, 37, 1297-1309.	5.4	46
36	SCOPE: signal compensation for low-rank plus sparse matrix decomposition for fast parameter mapping. Physics in Medicine and Biology, 2018, 63, 185009.	1.6	15

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37	MLS: Joint manifold-learning and sparsity-aware framework for highly accelerated dynamic magnetic resonance imaging. , 2018, 2018, 1213-1216.		8
38	Improving image reconstructions for simultaneous multi-slice readout-segmented diffusion MRI data with phase errors. , 2018, , .		1
39	SecSAKE. , 2018, , .		3
40	A novel hybrid total variation minimization algorithm for compressed sensing. , 2017, , .		0
41	Direct diffusion tensor estimation using a model-based method with spatial and parametric constraints. Medical Physics, 2017, 44, 570-580.	1.6	16
42	Enhancing Bayesian PET image reconstruction using neural networks. , 2017, , .		1
43	M-MRI: A manifold-based framework to highly accelerated dynamic magnetic resonance imaging. , 2017, 2017, 19-22.		10
44	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
45	Blind sparse inpainting reveals cytoskeletal filaments with sub-Nyquist localization. Optica, 2017, 4, 1277.	4.8	14
46	Bi-Linear modeling of manifold-data geometry for Dynamic-MRI recovery. , 2017, 2017, .		1
47	Accelerating $1^{\text{st}}$ cartilage imaging using compressed sensing with iterative locally adapted support detection and JSSENSE. Magnetic Resonance in Medicine, 2016, 75, 1617-1629.	1.9	37
48	Enabling high-speed wide-field dynamic imaging in multifocal photoacoustic computed microscopy: a simulation study. Applied Optics, 2016, 55, 3724.	2.1	2
49	Sparsity-constrained PET image reconstruction with learned dictionaries. Physics in Medicine and Biology, 2016, 61, 6347-6368.	1.6	27
50	Accelerating magnetic resonance imaging via deep learning. , 2016, 2016, 514-517.		455
51	Accelerating dynamic magnetic resonance imaging by nonlinear sparse coding. , 2016, 2016, 510-513.		5
52	Highly accelerated cardiac cine parallel MRI using low-rank matrix completion and partial separability model. Proceedings of SPIE, 2016, , .	0.8	1
53	Iterative feature refinement for accurate undersampled MR image reconstruction. Physics in Medicine and Biology, 2016, 61, 3291-3316.	1.6	20
54	Optimization of the image reconstruction procedure in multi-focal photoacoustic computed tomography. , 2016, , .		0

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55	Accelerated exponential parameterization of T2 relaxation with model-driven low rank and sparsity priors (MORASA). Magnetic Resonance in Medicine, 2016, 76, 1865-1878.	1.9	43
56	Parallel imaging via sparse representation over a learned dictionary. , 2015, , .		5
57	Fast GRAPPA reconstruction with random projection. Magnetic Resonance in Medicine, 2015, 74, 71-80.	1.9	10
58	Guest Editorial EMBC 2014. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1291-1292.	3.9	0
59	Accelerating MR parameter mapping using nonlinear manifold learning and supervised pre-imaging. , 2015, , .		7
60	Initial testing of a 3D printed perfusion phantom using digital subtraction angiography. , 2015, 9417, .		10
61	Dynamic magnetic resonance imaging using compressed sensing with self-learned nonlinear dictionary (NL-D). , 2015, , .		10
62	Conflict-cost based random sampling design for parallel MRI with low rank constraints. , 2015, , .		1
63	Recovery of parametric manifold from reduced measurements: Application to magnetic resonance parameter mapping. , 2015, , .		1
64	Image reconstruction from phased-array data based on multichannel blind deconvolution. Magnetic Resonance Imaging, 2015, 33, 1106-1113.	1.0	9
65	Incorporating reference in parallel imaging and compressed sensing. Magnetic Resonance in Medicine, 2015, 73, 1490-1504.	1.9	11
66	Tract-Based Spatial Statistics: Application to Mild Cognitive Impairment. BioMed Research International, 2014, 2014, 1-8.	0.9	9
67	Sparse BLIP: BLind Iterative Parallel imaging reconstruction using compressed sensing. Magnetic Resonance in Medicine, 2014, 71, 645-660.	1.9	26
68	Highly accelerated dynamic contrast-enhanced MRI with temporal constrained reconstruction. , 2014, 2014, 2408-11.		0
69	Undersampled dynamic magnetic resonance imaging using kernel principal component analysis. , 2014, 2014, 1533-6.		6
70	Accurate T2 mapping with sparsity and linear predictability filtering. , 2014, , .		4
71	Sparsity-based PET image reconstruction using MRI learned dictionaries. , 2014, , .		13
72	Compressed Sensing Dynamic Cardiac Cine MRI Using Learned Spatiotemporal Dictionary. IEEE Transactions on Biomedical Engineering, 2014, 61, 1109-1120.	2.5	95

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73	Highly accelerated 3D dynamic contrast enhanced MRI from sparse spiral sampling using integrated partial separability model and JSENSE. Proceedings of SPIE, 2014, , .	0.8	3
74	Improved myocardial perfusion PET imaging with MRI learned dictionaries. , 2014, , .		0
75	Accelerated MR diffusion tensor imaging using distributed compressed sensing. Magnetic Resonance in Medicine, 2014, 71, 763-772.	1.9	43
76	Adaptive Dictionary Learning in Sparse Gradient Domain for Image Recovery. IEEE Transactions on Image Processing, 2013, 22, 4652-4663.	6.0	90
77	A kernel-based compressed sensing approach to dynamic MRI from highly undersampled data. , 2013, , .		10
78	Undersampled dynamic magnetic resonance imaging using patch-based spatiotemporal dictionaries. , 2013, , .		14
79	An efficient augmented Lagrangian algorithm for graph regularized sparse coding in clustering. , 2013, , .		0
80	Noise behavior of MR brain reconstructions using compressed sensing. , 2013, 2013, 5155-8.		4
81	Efficient GRAPPA reconstruction using random projection. , 2013, , .		2
82	Compressed-sensing photoacoustic computed tomography in vivo with partially known support. Optics Express, 2012, 20, 16510.	1.7	66
83	Simultaneous image reconstruction and sensitivity estimation in parallel MRI using blind compressed sensing. , 2012, , .		1
84	A hybrid total-variation minimization approach to compressed sensing. , 2012, , .		3
85	k-t CSPI: A dynamic MRI reconstruction framework for combining compressed sensing and parallel imaging. , 2012, , .		5
86	A model-based method with joint sparsity constraint for direct diffusion tensor estimation. , 2012, , .		6
87	A kernel approach to compressed sensing parallel MRI. , 2012, , .		1
88	Three-dimensional hybrid-encoded MRI using compressed sensing. , 2012, , .		5
89	Improving GRAPPA using cross-sampled autocalibration data. Magnetic Resonance in Medicine, 2012, 67, 1042-1053.	1.9	20
90	k-t ISD: Dynamic cardiac MR imaging using compressed sensing with iterative support detection. Magnetic Resonance in Medicine, 2012, 68, 41-53.	1.9	82

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91	Nonlinear GRAPPA: A kernel approach to parallel MRI reconstruction. Magnetic Resonance in Medicine, 2012, 68, 730-740.	1.9	66
92	A kernel approach to parallel MRI reconstruction. , 2011, , .		3
93	Sensitivity encoding reconstruction with nonlocal total variation regularization. Magnetic Resonance in Medicine, 2011, 65, 1384-1392.	1.9	83
94	Translational-invariant dictionaries for compressed sensing in magnetic resonance imaging. , 2011, , .		17
95	K-T ISD: Compressed sensing with iterative support detection for dynamic MRI. , 2011, , .		3
96	Metabolomic Imaging for Human Prostate Cancer Detection. Science Translational Medicine, 2010, 2, 16ra8.	5.8	44
97	Cross-sampled GRAPPA for parallel MRI. , 2010, 2010, 3325-8.		0
98	Compressed-sensing dynamic MR imaging with partially known support. , 2010, 2010, 2829-32.		11
99	Parallel MRI Using Phased Array Coils. IEEE Signal Processing Magazine, 2010, 27, 90-98.	4.6	57
100	Image reconstruction from phased-array MRI data based on multichannel blind deconvolution. , 2010, , .		6
101	Parallel MRI Acceleration Using M-FOCUSS. , 2009, , .		3
102	Ultrasound image de-noising through Karhunen-Loeve (K-L) transform with overlapping segments. , 2009, , .		4
103	Toeplitz random encoding MR imaging using compressed sensing. , 2009, , .		14
104	SENSE reconstruction with nonlocal TV regularization. , 2009, 2009, 1032-5.		8
105	A new single acquisition, two-image difference method for determining MR image SNR. Medical Physics, 2009, 36, 662-671.	1.6	18
106	Regularized sensitivity encoding (SENSE) reconstruction using bregman iterations. Magnetic Resonance in Medicine, 2009, 61, 145-152.	1.9	73
107	Accelerating SENSE using compressed sensing. Magnetic Resonance in Medicine, 2009, 62, 1574-1584.	1.9	369
108	Functional MRI in the assessment of cortical activation during gait-related imaginary tasks. Journal of Neural Transmission, 2009, 116, 1087-1092.	1.4	64

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109	Improved self-calibrated spiral parallel imaging using JSENSE. Medical Engineering and Physics, 2009, 31, 510-514.	0.8	3
110	Pseudo 2D random sampling for compressed sensing MRI. , 2009, 2009, 2672-5.		16
111	Linear transformations and Restricted Isometry Property. , 2009, , .		3
112	Compressed-sensing Photoacoustic Imaging based on random optical illumination. International Journal of Functional Informatics and Personalised Medicine, 2009, 2, 394.	0.4	26
113	A statistical approach to SENSE regularization with arbitrary $k$ -space trajectories. Magnetic Resonance in Medicine, 2008, 60, 414-421.	1.9	40
114	Toeplitz block matrices in compressed sensing and their applications in imaging. , 2008, , .		38
115	Sparsesense: Application of compressed sensing in parallel MRI. , 2008, , .		24
116	Accelerating sensitivity encoding using Compressed Sensing. , 2008, 2008, 1667-70.		15
117	Improved spiral sense reconstruction using a multiscale wavelet model. , 2008, , .		4
118	A variable projection approach to parallel magnetic resonance imaging. , 2008, , .		0
119	REGULARIZED SENSE RECONSTRUCTION USING ITERATIVELY REFINED TOTAL VARIATION METHOD. , 2007, , .		12
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	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
122	JOINT ESTIMATION OF IMAGE AND COIL SENSITIVITIES IN PARALLEL SPIRAL MRI. , 2007, , .		5
123	Joint image reconstruction and sensitivity estimation in SENSE (JSENSE). Magnetic Resonance in Medicine, 2007, 57, 1196-1202.	1.9	213
124	Truncation effects in SENSE reconstruction. Magnetic Resonance Imaging, 2006, 24, 1311-1318.	1.0	10
125	Application of perceptual difference model (PDM) on regularization techniques of parallel MR imaging. , 2005, , .		0
126	Integrating Parallel Imaging with Generalized Series for Accelerated Dynamic Imaging. , 2005, 2005, 1434-7.		3



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127	An Efficient Non-Iterative Reconstruction Algorithm for Parallel MRI with Arbitrary K-Space Trajectories. , 2005, 2005, 1344-7.		2
128	Parallel Mri Reconstruction: A Filter-Bank Approach. , 2005, 2005, 1374-7.		8
129	On Tikhonov regularization for image reconstruction in parallel MRI. , 2004, 2004, 1056-9.		41