Di Guo

List of Publications by Year
in descending order

51 papers	2,235 citations	304743 22 h-index	223800 46 g-index
51 all docs	51 docs citations	51 times ranked	1558 citing authors

#	Article	IF	Citations
1	Magnetic resonance image reconstruction from undersampled measurements using a patch-based nonlocal operator. Medical Image Analysis, 2014, 18, 843-856.	11.6	274
2	Convolutional Neural Networks-Based MRI Image Analysis for the Alzheimerâ€™s Disease Prediction From Mild Cognitive Impairment. Frontiers in Neuroscience, 2018, 12, 777.	2.8	253
3	Undersampled MRI reconstruction with patch-based directional wavelets. Magnetic Resonance Imaging, 2012, 30, 964-977.	1.8	196
4	Fast Multiclass Dictionaries Learning With Geometrical Directions in MRI Reconstruction. IEEE Transactions on Biomedical Engineering, 2016, 63, 1850-1861.	4.2	151
5	Iterative thresholding compressed sensing MRI based on contourlet transform. Inverse Problems in Science and Engineering, 2010, 18, 737-758.	1.2	131
6	Projected Iterative Soft-Thresholding Algorithm for Tight Frames in Compressed Sensing Magnetic Resonance Imaging. IEEE Transactions on Medical Imaging, 2016, 35, 2130-2140.	8.9	131
7	Image reconstruction of compressed sensing MRI using graph-based redundant wavelet transform. Medical Image Analysis, 2016, 27, 93-104.	11.6	127
8	Accelerated Nuclear Magnetic Resonance Spectroscopy with Deep Learning. Angewandte Chemie - International Edition, 2020, 59, 10297-10300.	13.8	88
9	Hankel Matrix Nuclear Norm Regularized Tensor Completion for N-dimensional Exponential Signals. IEEE Transactions on Signal Processing, 2017, 65, 3702-3717.	5.3	79
10	Review and Prospect: Deep Learning in Nuclear Magnetic Resonance Spectroscopy. Chemistry - A European Journal, 2020, 26, 10391-10401.	3.3	75
11	Magnetic resonance image reconstruction using trained geometric directions in 2D redundant wavelets domain and non-convex optimization. Magnetic Resonance Imaging, 2013, 31, 1611-1622.	1.8	57
12	Vandermonde Factorization of Hankel Matrix for Complex Exponential Signal Recoveryâ€"Application in Fast NMR Spectroscopy. IEEE Transactions on Signal Processing, 2018, 66, 5520-5533.	5.3	43
13	Spread spectrum compressed sensing MRI using chirp radio frequency pulses. , 2016, , .		41
14	A review on deep learning MRI reconstruction without fully sampled k-space. BMC Medical Imaging, 2021, 21, 195.	2.7	41
15	Reconstruction of Self-Sparse 2D NMR Spectra from Undersampled Data in the Indirect Dimension. Sensors, 2011, 11, 8888-8909.	3.8	39
16	Multi-Contrast Brain MRI Image Super-Resolution With Gradient-Guided Edge Enhancement. IEEE Access, 2018, 6, 57856-57867.	4.2	39
17	Image reconstruction with low-rankness and self-consistency of k-space data in parallel MRI. Medical Image Analysis, 2020, 63, 101687.	11.6	36
18	Balanced Sparse Model for Tight Frames in Compressed Sensing Magnetic Resonance Imaging. PLoS ONE, 2015, 10, e0119584.	2.5	32

#	Article	IF	Citations
19	Single Image Super-Resolution Based on Multi-Scale Competitive Convolutional Neural Network. Sensors, 2018, 18, 789.	3.8	32
20	A Fast Low Rank Hankel Matrix Factorization Reconstruction Method for Non-Uniformly Sampled Magnetic Resonance Spectroscopy. IEEE Access, 2017, 5, 16033-16039.	4.2	30
21	Accelerated Nuclear Magnetic Resonance Spectroscopy with Deep Learning. Angewandte Chemie, 2020, 132, 10383-10386.	2.0	28
22	Low Rank Enhanced Matrix Recovery of Hybrid Time and Frequency Data in Fast Magnetic Resonance Spectroscopy. IEEE Transactions on Biomedical Engineering, 2018, 65, 809-820.	4.2	26
23	Sparsity-Based Spatial Interpolation in Wireless Sensor Networks. Sensors, 2011, 11, 2385-2407.	3.8	25
24	Multi-contrast brain magnetic resonance image super-resolution using the local weight similarity. BMC Medical Imaging, 2017, 17, 6.	2.7	25
25	pFISTA-SENSE-ResNet for parallel MRI reconstruction. Journal of Magnetic Resonance, 2020, 318, 106790.	2.1	25
26	A guaranteed convergence analysis for the projected fast iterative soft-thresholding algorithm in parallel MRI. Medical Image Analysis, 2021, 69, 101987.	11.6	21
27	Review and prospect: NMR spectroscopy denoising and reconstruction with lowâ€rank Hankel matrices and tensors. Magnetic Resonance in Chemistry, 2021, 59, 324-345.	1.9	20
28	Salt and Pepper Noise Removal with Noise Detection and a Patch-Based Sparse Representation. Advances in Multimedia, 2014, 2014, 1-14.	0.4	17
29	Sparsity-Based Online Missing Data Recovery Using Overcomplete Dictionary. IEEE Sensors Journal, 2012, 12, 2485-2495.	4.7	16
30	Joint sparse reconstruction of multi-contrast MRI images with graph based redundant wavelet transform. BMC Medical Imaging, 2018, 18, 7.	2.7	16
31	Sparse MRI reconstruction using multi-contrast image guided graph representation. Magnetic Resonance Imaging, 2017, 43, 95-104.	1.8	15
32	Compressed sensing MRI based on nonsubsampled contourlet transform. , 2008, , .		13
33	Improved Reconstruction of Low Intensity Magnetic Resonance Spectroscopy With Weighted Low Rank Hankel Matrix Completion. IEEE Access, 2018, 6, 4933-4940.	4.2	13
34	A Sparse Model-Inspired Deep Thresholding Network for Exponential Signal Reconstructionâ€"Application in Fast Biological Spectroscopy. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 7578-7592.	11.3	12
35	High-fidelity spectroscopy reconstruction in accelerated NMR. Chemical Communications, 2018, 54, 10958-10961.	4.1	9
36	Exponential Signal Reconstruction With Deep Hankel Matrix Factorization. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 6214-6226.	11.3	8

#	Article	IF	Citations
37	Undersampled Hyperspectral Image Reconstruction Based on Surfacelet Transform. Journal of Sensors, 2015, 2015, 1-11.	1.1	7
38	An Automatic Denoising Method for NMR Spectroscopy Based on Low-Rank Hankel Model. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	7
39	Karhunen-LoÃ¨ve transform for compressive sampling hyperspectral images. Optical Engineering, 2015, 54, 014106.	1.0	6
40	A Fast Self-Learning Subspace Reconstruction Method for Non-Uniformly Sampled Nuclear Magnetic Resonance Spectroscopy. Applied Sciences (Switzerland), 2020, 10, 3939.	2.5	5
41	Phase-constrained reconstruction of high-resolution multi-shot diffusion weighted image. Journal of Magnetic Resonance, 2020, 312, 106690.	2.1	5
42	Accelerating patch-based directional wavelets with multicore parallel computing in compressed sensing MRI. Magnetic Resonance Imaging, 2015, 33, 649-658.	1.8	4
43	Salt and Pepper Noise Removal with Multi-Class Dictionary Learning and L0 Norm Regularizations. Algorithms, 2019, 12, 7.	2.1	4
44	Frontispiece: Review and Prospect: Deep Learning in Nuclear Magnetic Resonance Spectroscopy. Chemistry - A European Journal, 2020, 26, .	3.3	3
45	Coil Combination of Multichannel Single Voxel Magnetic Resonance Spectroscopy with Repeatedly Sampled In Vivo Data. Molecules, 2021, 26, 3896.	3.8	3
46	Brain metabolic differences between temporal lobe epileptic seizures and organic non-epileptic seizures in postictal phase: a retrospective study with magnetic resonance spectroscopy. Quantitative Imaging in Medicine and Surgery, 2021, 11, 3781-3791.	2.0	2
47	Magnetic resonance image reconstruction using similarities learnt from multi-modal images. , 2013, , .		1
48	Parallel Computing of Patch-Based Nonlocal Operator and Its Application in Compressed Sensing MRI. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-6.	1.3	1
49	A Modified Iterative Alternating Direction Minimization Algorithm for Impulse Noise Removal in Images. Journal of Applied Mathematics, 2014, 2014, 1-12.	0.9	1
50	Lowâ€rank and sparse reconstruction for fast diffusion nuclear magnetic resonance spectroscopy. IET Signal Processing, 2021, 15, 88-97.	1.5	1
51	A partial sum of singularâ€valueâ€based reconstruction method for nonâ€uniformly sampled NMR spectroscopy. IET Signal Processing, 2021, 15, 14-27.	1.5	1