

Xi Peng

List of Publications by Year in descending order

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31
papers

1,027
citations

759055

12
h-index

713332

21
g-index

31
all docs

31
docs citations

31
times ranked

1143
citing authors

#	ARTICLE	IF	CITATIONS
1	DeepSENSE: Learning coil sensitivity functions for SENSE reconstruction using deep learning. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 1894-1902.	1.9	10
2	A 4-minute solution for submillimeter whole-brain T1 quantification. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 3299-3307.	1.9	4
3	Fast 3D MR elastography of the whole brain using spiral staircase: Data acquisition, image reconstruction, and joint deblurring. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 2011-2024.	1.9	11
4	Constrained Magnetic Resonance Spectroscopic Imaging by Learning Nonlinear Low-Dimensional Models. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 545-555.	5.4	34
5	Incorporating reference guided priors into calibrationless parallel imaging reconstruction. <i>Magnetic Resonance Imaging</i> , 2019, 57, 347-358.	1.0	4
6	Simultaneous QSM and metabolic imaging of the brain using SPICE. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 13-21.	1.9	27
7	Multi-Contrast Brain MRI Image Super-Resolution With Gradient-Guided Edge Enhancement. <i>IEEE Access</i> , 2018, 6, 57856-57867.	2.6	39
8	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
9	Multi-contrast brain magnetic resonance image super-resolution using the local weight similarity. <i>BMC Medical Imaging</i> , 2017, 17, 6.	1.4	25
10	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
11	Sparse MRI reconstruction using multi-contrast image guided graph representation. <i>Magnetic Resonance Imaging</i> , 2017, 43, 95-104.	1.0	15
12	Two-Layer Tight Frame Sparsifying Model for Compressed Sensing Magnetic Resonance Imaging. <i>BioMed Research International</i> , 2016, 2016, 1-7.	0.9	3
13	Accelerating magnetic resonance imaging via deep learning. , 2016, 2016, 514-517.		455
14	Image reconstruction from few-view CT data by gradient-domain dictionary learning. <i>Journal of X-Ray Science and Technology</i> , 2016, 24, 627-638.	0.7	16
15	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
16	Parallel imaging via sparse representation over a learned dictionary. , 2015, , .		5
17	Undersampled MR Image Reconstruction with Data-Driven Tight Frame. <i>Computational and Mathematical Methods in Medicine</i> , 2015, 2015, 1-10.	0.7	10
18	MR Image Reconstruction with Convolutional Characteristic Constraint (CoCCo). <i>IEEE Signal Processing Letters</i> , 2015, 22, 1184-1188.	2.1	13

#	ARTICLE	IF	CITATIONS
19	An easily-achieved time-domain beamformer for ultrafast ultrasound imaging based on compressive sensing. , 2015, 2015, 7490-3.		2
20	Reference guided CS-MRI with gradient orientation priors. , 2015, 2015, 7498-501.		0
21	Incorporating reference in parallel imaging and compressed sensing. Magnetic Resonance in Medicine, 2015, 73, 1490-1504.	1.9	11
22	A Weighted Two-Level Bregman Method with Dictionary Updating for Nonconvex MR Image Reconstruction. International Journal of Biomedical Imaging, 2014, 2014, 1-23.	3.0	1
23	Exploiting parameter sparsity in model-based reconstruction to accelerate proton density and T2 mapping. Medical Engineering and Physics, 2014, 36, 1428-1435.	0.8	13
24	Accurate T2 mapping with sparsity and linear predictability filtering. , 2014, , .		4
25	Denoising MR Spectroscopic Imaging Data With Low-Rank Approximations. IEEE Transactions on Biomedical Engineering, 2013, 60, 78-89.	2.5	120
26	Adaptive Dictionary Learning in Sparse Gradient Domain for Image Recovery. IEEE Transactions on Image Processing, 2013, 22, 4652-4663.	6.0	90
27	Interventional MRI with sparse sampling using union-of-subspaces. , 2012, 9, 314-317.		3
28	Reference-driven MR image reconstruction with sparsity and support constraints. , 2011, , .		9
29	Spatiotemporal denoising of MR spectroscopic imaging data by low-rank approximations. , 2011, , .		8
30	Reference-guided sparsifying transform design for compressive sensing MRI. , 2011, 2011, 5718-21.		12
31	Correction of field inhomogeneity effects on limited k-space MRSI data using anatomical constraints. , 2010, 2010, 883-6.		9