Kuang Gong

List of Publications by Year
in descending order

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50 papers	1,687 citations	430442 18 h-index	360668 35 g-index
51 all docs	51 docs citations	51 times ranked	1535 citing authors

#	Article	IF	Citations
1	Arterial spin labeling MR image denoising and reconstruction using unsupervised deep learning. NMR in Biomedicine, 2022, 35, e4224.	1.6	13
2	Penalized-Likelihood PET Image Reconstruction Using 3D Structural Convolutional Sparse Coding. IEEE Transactions on Biomedical Engineering, 2022, 69, 4-14.	2.5	15
3	Direct Reconstruction of Linear Parametric Images From Dynamic PET Using Nonlocal Deep Image Prior. IEEE Transactions on Medical Imaging, 2022, 41, 680-689.	5.4	21
4	Unsupervised arterial spin labeling image superresolution via multiscale generative adversarial network. Medical Physics, 2022, 49, 2373-2385.	1.6	3
5	Unsupervised PET logan parametric image estimation using conditional deep image prior. Medical Image Analysis, 2022, 80, 102519.	7.0	6
6	MR-Based Attenuation Correction for Brain PET Using 3-D Cycle-Consistent Adversarial Network. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 185-192.	2.7	22
7	Attenuation correction using deep Learning and integrated UTE/multi-echo Dixon sequence: evaluation in amyloid and tau PET imaging. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 1351-1361.	3.3	14
8	A multi-center study of COVID-19 patient prognosis using deep learning-based CT image analysis and electronic health records. European Journal of Radiology, 2021, 139, 109583.	1.2	26
9	Populational and individual information based PET image denoising using conditional unsupervised learning. Physics in Medicine and Biology, 2021, 66, 155001.	1.6	15
10	The Evolution of Image Reconstruction in PET. PET Clinics, 2021, 16, 533-542.	1.5	20
11	Rapid high-quality PET Patlak parametric image generation based on direct reconstruction and temporal nonlocal neural network. NeuroImage, 2021, 240, 118380.	2.1	8
12	Machine Learning in PET: From Photon Detection to Quantitative Image Reconstruction. Proceedings of the IEEE, 2020, 108, 51-68.	16.4	72
13	Severity and Consolidation Quantification of COVID-19 From CT Images Using Deep Learning Based on Hybrid Weak Labels. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 3529-3538.	3.9	31
14	Penalized Parametric PET Image Estimation Using Local Linear Fitting. IEEE Transactions on Radiation and Plasma Medical Sciences, 2020, 4, 750-758.	2.7	1
15	Generative adversarial network based regularized image reconstruction for PET. Physics in Medicine and Biology, 2020, 65, 125016.	1.6	27
16	MRâ€based PET attenuation correction using a combined ultrashort echo time/multiâ€echo Dixon acquisition. Medical Physics, 2020, 47, 3064-3077.	1.6	12
17	Super Resolution of Arterial Spin Labeling MR Imaging Using Unsupervised Multi-scale Generative Adversarial Network. Lecture Notes in Computer Science, 2020, , 50-59.	1.0	1
18	Clinically Translatable Direct Patlak Reconstruction from Dynamic PET with Motion Correction Using Convolutional Neural Network. Lecture Notes in Computer Science, 2020, , 793-802.	1.0	3

#	Article	IF	Citations
19	Improved Patlak Reconstruction from Low-dose Dynamic PET Using Temporal Non-local Neural Network. , 2020, , .		0
20	An Efficient Approach to Perform MR-Assisted PET Data Optimization in Simultaneous PET/MR Neuroimaging Studies. Journal of Nuclear Medicine, 2019, 60, 272-278.	2.8	17
21	Gross tumor volume segmentation for head and neck cancer radiotherapy using deep dense multi-modality network. Physics in Medicine and Biology, 2019, 64, 205015.	1.6	79
22	PET image denoising using unsupervised deep learning. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 2780-2789.	3.3	157
23	Evaluation of Hamamatsu PET Imaging Modules for Dedicated TOF-Capable Scanners. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 634-639.	2.7	6
24	Low-dose dual energy CT image reconstruction using non-local deep image prior. , 2019, , .		7
25	Iterative PET Image Reconstruction Using Convolutional Neural Network Representation. IEEE Transactions on Medical Imaging, 2019, 38, 675-685.	5.4	188
26	PET Image Reconstruction Using Deep Image Prior. IEEE Transactions on Medical Imaging, 2019, 38, 1655-1665.	5.4	172
27	PET Image Denoising Using a Deep Neural Network Through Fine Tuning. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 153-161.	2.7	148
28	Consensus Neural Network for Medical Imaging Denoising with Only Noisy Training Samples. Lecture Notes in Computer Science, 2019, , 741-749.	1.0	32
29	CT-guided PET parametric image reconstruction using deep neural network without prior training data. , 2019, , .		11
30	EMnet: an unrolled deep neural network for PET image reconstruction. , 2019, , .		19
31	Automatic multi-modality segmentation of gross tumor volume for head and neck cancer radiotherapy using 3D U-Net. , 2019, , .		3
32	Low-dose CT count-domain denoising via convolutional neural network with filter loss. , 2019, , .		4
33	Generative adversarial networks based regularized image reconstruction for PET. , 2019, , .		7
34	Population and individual information guided PET image denoising using deep neural network. , 2019, , .		3
35	Direct patlak reconstruction from dynamic PET using unsupervised deep learning. , 2019, , .		10
36	MAPEM-Net: an unrolled neural network for Fully 3D PET image reconstruction. , 2019, , .		21

#	ARTICLE	IF	CITATIONS
37	Direct Patlak Reconstruction From Dynamic PET Data Using the Kernel Method With MRI Information Based on Structural Similarity. IEEE Transactions on Medical Imaging, 2018, 37, 955-965.	5.4	68
38	Development of an Ultra High Resolution PET Scanner for Imaging Rodent Paws: PawPET. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 7-16.	2.7	10
39	CT-guided PET Image Denoising using Deep Neural Network without Prior Training Data. , 2018, , .		3
40	Attenuation correction for brain PET imaging using deep neural network based on Dixon and ZTE MR images. Physics in Medicine and Biology, 2018, 63, 125011.	1.6	97
41	Penalized PET Reconstruction Using Deep Learning Prior and Local Linear Fitting. IEEE Transactions on Medical Imaging, 2018, 37, 1478-1487.	5.4	154
42	Nonlinear PET parametric image reconstruction with MRI information using kernel method. Proceedings of SPIE, 2017, , .	0.8	6
43	Open-field mouse brain PET: design optimisation and detector characterisation. Physics in Medicine and Biology, 2017, 62, 6207-6225.	1.6	15
44	Sinogram Blurring Matrix Estimation From Point Sources Measurements With Rank-One Approximation for Fully 3-D PET. IEEE Transactions on Medical Imaging, 2017, 36, 2179-2188.	5.4	18
45	PET Image Denoising Using Deep Neural Network. , 2017, , .		4
46	Penalized PET Reconstruction using CNN Prior. , 2017, , .		1
47	Designing a compact high performance brain PET scannerâ€"simulation study. Physics in Medicine and Biology, 2016, 61, 3681-3697.	1.6	49
48	On the assessment of spatial resolution of PET systems with iterative image reconstruction. Physics in Medicine and Biology, 2016, 61, N193-N202.	1.6	66
49	Open-field mouse brain PET: Design considerations and detector development. , 2015, , .		0
50	Simulation study for designing a compact brain PET scanner. , 2015, , .		2