Zhanli Hu

List of Publications by Year
in descending order

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64	992	393982	500791
papers	citations	19	28
		h-index	g-index

65	65	65	705
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Artifact correction in lowâ€dose dental <scp>CT</scp> imaging using Wasserstein generative adversarial networks. Medical Physics, 2019, 46, 1686-1696.	1.6	60
2	DPIR-Net: Direct PET Image Reconstruction Based on the Wasserstein Generative Adversarial Network. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 35-43.	2.7	56
3	CaGAN: A Cycle-Consistent Generative Adversarial Network With Attention for Low-Dose CT Imaging. IEEE Transactions on Computational Imaging, 2020, 6, 1203-1218.	2.6	48
4	Performance of a high-resolution depth encoding PET detector using barium sulfate reflector. Physics in Medicine and Biology, 2017, 62, 5945-5958.	1.6	42
5	Dual-ended readout small animal PET detector by using 0.5Âmm pixelated LYSO crystal arrays and SiPMs. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 917, 1-8.	0.7	41
6	Development of depth encoding small animal <scp>PET</scp> detectors using dualâ€ended readout of pixelated scintillator arrays with Si<scp>PM</scp>s. Medical Physics, 2018, 45, 613-621.	1.6	40
7	Artifact removal using a hybrid-domain convolutional neural network for limited-angle computed tomography imaging. Physics in Medicine and Biology, 2020, 65, 155010.	1.6	40
8	Design and performance of SIAT aPET: a uniform high-resolution small animal PET scanner using dual-ended readout detectors. Physics in Medicine and Biology, 2020, 65, 235013.	1.6	38
9	Super-resolution CT Image Reconstruction Based on Dictionary Learning and Sparse Representation. Scientific Reports, 2018, 8, 8799.	1.6	36
10	Obtaining PET/CT images from non-attenuation corrected PET images in a single PET system using Wasserstein generative adversarial networks. Physics in Medicine and Biology, 2020, 65, 215010.	1.6	31
11	ADAPTIVE-NET: deep computed tomography reconstruction network with analytical domain transformation knowledge. Quantitative Imaging in Medicine and Surgery, 2020, 10, 415-427.	1.1	30
12	A feature refinement approach for statistical interior CT reconstruction. Physics in Medicine and Biology, 2016, 61, 5311-5334.	1.6	28
13	Parametric image generation with the uEXPLORER total-body PET/CT system through deep learning. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 2482-2492.	3.3	25
14	Performance of a SiPM based semi-monolithic scintillator PET detector. Physics in Medicine and Biology, 2017, 62, 7889-7904.	1.6	23
15	Learning a Deep CNN Denoising Approach Using Anatomical Prior Information Implemented With Attention Mechanism for Low-Dose CT Imaging on Clinical Patient Data From Multiple Anatomical Sites. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3416-3427.	3.9	23
16	Image reconstruction for positron emission tomography based on patchâ€based regularization and dictionary learning. Medical Physics, 2019, 46, 5014-5026.	1.6	22
17	Considering anatomical prior information for low-dose CT image enhancement using attribute-augmented Wasserstein generative adversarial networks. Neurocomputing, 2021, 428, 104-115.	3.5	22
18	A GPU-accelerated fully 3D OSEM image reconstruction for a high-resolution small animal PET scanner using dual-ended readout detectors. Physics in Medicine and Biology, 2020, 65, 245007.	1.6	22

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19	An improved statistical iterative algorithm for sparse-view and limited-angle CT image reconstruction. Scientific Reports, 2017, 7, 10747.	1.6	20
20	Performance of long rectangular semiâ€monolithic scintillator PET detectors. Medical Physics, 2019, 46, 1608-1619.	1.6	20
21	FaNet: fast assessment network for the novel coronavirus (COVID-19) pneumonia based on 3D CT imaging and clinical symptoms. Applied Intelligence, 2021, 51, 2838-2849.	3.3	18
22	Geometric Calibration of a Micro-CT System and Performance for Insect Imaging. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 655-660.	3.6	16
23	Compressive sampling in computed tomography: Method and application. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 748, 26-32.	0.7	16
24	Image reconstruction from few-view CT data by gradient-domain dictionary learning. Journal of X-Ray Science and Technology, 2016, 24, 627-638.	0.7	16
25	Automatic image-domain MoirÃ© artifact reduction method in grating-based x-ray interferometry imaging. Physics in Medicine and Biology, 2019, 64, 195013.	1.6	16
26	Super-resolution of PET image based on dictionary learning and random forests. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 927, 320-329.	0.7	16
27	PET Image Reconstruction Using a Cascading Back-Projection Neural Network. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 1100-1111.	7.3	16
28	A 3D attention residual encoderâ€“decoder least-square GAN for low-count PET denoising. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 983, 164638.	0.7	15
29	LCPR-Net: low-count PET image reconstruction using the domain transform and cycle-consistent generative adversarial networks. Quantitative Imaging in Medicine and Surgery, 2021, 11, 749-762.	1.1	14
30	Low-Dose Computed Tomography Image Super-Resolution Reconstruction via Random Forests. Sensors, 2019, 19, 207.	2.1	13
31	DaNet: dose-aware network embedded with dose-level estimation for low-dose CT imaging. Physics in Medicine and Biology, 2021, 66, 015005.	1.6	13
32	Spatial adaptive and transformer fusion network (STFNet) for lowâ€count PET blind denoising with MRI. Medical Physics, 2022, 49, 343-356.	1.6	12
33	A depth-encoding PET detector that uses light sharing and single-ended readout with silicon photomultipliers. Physics in Medicine and Biology, 2018, 63, 045009.	1.6	11
34	Improved total variation minimization method for few-view computed tomography image reconstruction. BioMedical Engineering OnLine, 2014, 13, 70.	1.3	9
35	Performance of a depth encoding PET detector module using light sharing and single-ended readout with SiPMs. Physics in Medicine and Biology, 2019, 64, 085012.	1.6	9
36	Geometric calibration of a stationary digital breast tomosynthesis system based on distributed carbon nanotube X-ray source arrays. PLoS ONE, 2017, 12, e0188367.	1.1	8

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37	A thick semi-monolithic scintillator detector for clinical PET scanners. Physics in Medicine and Biology, 2021, 66, 065023.	1.6	7
38	DeepPhase: Learning phase contrast signal from dual energy X-ray absorption images. Displays, 2021, 69, 102027.	2.0	7
39	Low-count PET image restoration using sparse representation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 888, 222-227.	0.7	6
40	Automatic left ventricle segmentation from cardiac magnetic resonance images using a capsule network. Journal of X-Ray Science and Technology, 2020, 28, 541-553.	0.7	6
41	Temporal feature prior-aided separated reconstruction method for low-dose dynamic myocardial perfusion computed tomography. Physics in Medicine and Biology, 2021, 66, 045012.	1.6	6
42	Ultraâ€highâ€resolution depthâ€encoding small animal PET detectors: Using GAGG and LYSO crystal arrays. Medical Physics, 2022, 49, 3006-3020.	1.6	6
43	The synthesis of high-energy CT images from low-energy CT images using an improved cycle generative adversarial network. Quantitative Imaging in Medicine and Surgery, 2022, 12, 28-42.	1.1	5
44	PWLS-PR: low-dose computed tomography image reconstruction using a patch-based regularization method based on the penalized weighted least squares total variation approach. Quantitative Imaging in Medicine and Surgery, 2021, 11, 2541-2559.	1.1	5
45	Correcting motion artifacts in coronary computed tomography angiography images using a dual-zone cycle generative adversarial network. Journal of X-Ray Science and Technology, 2021, 29, 577-595.	0.7	5
46	Automated segmentation of the left ventricle from MR cine imaging based on deep learning architecture. Biomedical Physics and Engineering Express, 2020, 6, 025009.	0.6	5
47	Investigation of BPF algorithm in cone-beam CT with 2D general trajectories. Journal of X-Ray Science and Technology, 2012, 20, 351-362.	0.7	4
48	Low-dose dental CT image enhancement using a multiscale feature sensing network. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 981, 164530.	0.7	4
49	Synthesizing PET/MR (T1-weighted) images from non-attenuation-corrected PET images. Physics in Medicine and Biology, 2021, 66, 135006.	1.6	4
50	Physical and imaging performance of SIAT aPET under different energy windows and timing windows. Medical Physics, 2022, , .	1.6	4
51	An iterative image-based inter-frame motion compensation method for dynamic brain PET imaging. Physics in Medicine and Biology, 2022, 67, 035012.	1.6	4
52	Eliminating CT radiation for clinical PET examination using deep learning. European Journal of Radiology, 2022, 154, 110422.	1.2	4
53	Super-resolution PET image reconstruction with sparse representation. , 2017, , .		3
54	Evaluation of reconstruction algorithms for a stationary digital breast tomosynthesis system using a carbon nanotube X-ray source array. Journal of X-Ray Science and Technology, 2020, 28, 1157-1169.	0.7	3

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55	Technical Note: A preliminary study of dualâ€tracer PET image reconstruction guided by FDG and/or MR kernels. Medical Physics, 2021, 48, 5259-5271.	1.6	3
56	Contrast-enhanced to noncontrast CT transformation via an adjacency content-transfer-based deep subtraction residual neural network. Physics in Medicine and Biology, 2021, 66, 145017.	1.6	3
57	An improved PET image reconstruction method based on super-resolution. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 946, 162677.	0.7	2
58	Direct and indirect parameter imaging methods for dynamic PET. Biomedical Physics and Engineering Express, 2021, 7, 045022.	0.6	2
59	MRI-aided kernel PET image reconstruction method based on texture features. Physics in Medicine and Biology, 2021, 66, 15NT03.	1.6	2
60	Low-dose PET image denoising based on coupled dictionary learning. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1020, 165908.	0.7	2
61	Dynamic PET Imaging Using Dual Texture Features. Frontiers in Computational Neuroscience, 2021, 15, 819840.	1.2	2
62	Study on 3D CT image reconstruction and interactive clipping. , 2008, , .		1
63	PET Image Reconstruction from Under-sampled Data. , 2017, , .		1
64	PET parametric imaging based on MR frequency-domain texture information. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1029, 166411.	0.7	1