Yongfeng Yang

List of Publications by Year
in descending order

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41 papers	1,502 citations	331670 21 h-index	302126 39 g-index
41 all docs	41 docs citations	41 times ranked	1009 citing authors

#	Article	IF	Citations
1	Depth of interaction resolution measurements for a high resolution PET detector using position sensitive avalanche photodiodes. Physics in Medicine and Biology, 2006, 51, 2131-2142.	3.0	142
2	Depth of interaction calibration for PET detectors with dual-ended readout by PSAPDs. Physics in Medicine and Biology, 2009, 54, 433-445.	3.0	142
3	Optimization and performance evaluation of the microPET II scanner forin vivosmall-animal imaging. Physics in Medicine and Biology, 2004, 49, 2527-2545.	3.0	135
4	A Prototype PET Scanner with DOI-Encoding Detectors. Journal of Nuclear Medicine, 2008, 49, 1132-1140.	5.0	99
5	A Prototype High-Resolution Small-Animal PET Scanner Dedicated to Mouse Brain Imaging. Journal of Nuclear Medicine, 2016, 57, 1130-1135.	5.0	94
6	Artifact correction in lowâ€dose dental <scp>CT</scp> imaging using Wasserstein generative adversarial networks. Medical Physics, 2019, 46, 1686-1696.	3.0	60
7	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.	3.7	56
8	Cardiac PET imaging in mice with simultaneous cardiac and respiratory gating. Physics in Medicine and Biology, 2005, 50, 2979-2989.	3.0	54
9	Tapered LSO arrays for small animal PET. Physics in Medicine and Biology, 2011, 56, 139-153.	3.0	53
10	Effects of reflector and crystal surface on the performance of a depth-encoding PET detector with dual-ended readout. Medical Physics, 2014, 41, 072503.	3.0	51
11	CaGAN: A Cycle-Consistent Generative Adversarial Network With Attention for Low-Dose CT Imaging. IEEE Transactions on Computational Imaging, 2020, 6, 1203-1218.	4.4	48
12	Characterization of Large-Area SiPM Array for PET Applications. IEEE Transactions on Nuclear Science, 2016, 63, 8-16.	2.0	47
13	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.	1.6	41
14	Observations regarding scatter fraction and NEC measurements for small animal PET. IEEE Transactions on Nuclear Science, 2006, 53, 127-132.	2.0	40
15	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.	3.0	40
16	Performance of a high-resolution depth-encoding PET detector module using linearly-graded SiPM arrays. Physics in Medicine and Biology, 2018, 63, 035035.	3.0	38
17	A Time-Walk Correction Method for PET Detectors Based on Leading Edge Discriminators. IEEE Transactions on Radiation and Plasma Medical Sciences, 2017, 1, 385-390.	3.7	33
18	Investigation of Depth of Interaction Encoding for a Pixelated LSO Array With a Single Multi-Channel PMT. IEEE Transactions on Nuclear Science, 2009, 56, 2594-2599.	2.0	28

#	Article	IF	Citations
19	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.	6.4	25
20	A Simple Capacitive Charge-Division Readout for Position-Sensitive Solid-State Photomultiplier Arrays. IEEE Transactions on Nuclear Science, 2013, 60, 3188-3197.	2.0	24
21	Comparison of large-area position-sensitive solid-state photomultipliers for small animal PET. Physics in Medicine and Biology, 2012, 57, 8119-8134.	3.0	23
22	Performance comparison of two signal multiplexing readouts for SiPM-based pet detector. Physics in Medicine and Biology, 2019, 64, 23NT02.	3.0	23
23	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.	6.3	23
24	Image reconstruction for positron emission tomography based on patchâ€based regularization and dictionary learning. Medical Physics, 2019, 46, 5014-5026.	3.0	22
25	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.	3.0	22
26	Evaluation of Matrix9 silicon photomultiplier array for smallâ€animal PET. Medical Physics, 2015, 42, 585-599.	3.0	21
27	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.	1.6	16
28	PET Image Reconstruction Using a Cascading Back-Projection Neural Network. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 1100-1111.	10.8	16
29	Signal and noise properties of position-sensitive avalanche photodiodes. Physics in Medicine and Biology, 2011, 56, 6327-6336.	3.0	15
30	A Monte Carlo investigation of the spatial resolution performance of a small-animal PET scanner designed for mouse brain imaging studies. Physica Medica, 2014, 30, 76-85.	0.7	15
31	PSPMT/APD Hybrid DOI Detectors for the PET Component of a Dedicated Breast PET/CT Systemâ€"A Feasibility Study. IEEE Transactions on Nuclear Science, 2008, 55, 853-861.	2.0	12
32	Spatial adaptive and transformer fusion network (STFNet) for lowâ€count PET blind denoising with MRI. Medical Physics, 2022, 49, 343-356.	3.0	12
33	Evaluation of Two SiPM Arrays for Depth-Encoding PET Detectors Based on Dual-Ended Readout. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 315-321.	3.7	8
34	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.	1.6	6
35	Synthesizing PET/MR (T1-weighted) images from non-attenuation-corrected PET images. Physics in Medicine and Biology, 2021, 66, 135006.	3.0	4
36	Eliminating CT radiation for clinical PET examination using deep learning. European Journal of Radiology, 2022, 154, 110422.	2.6	4

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37	Performance comparison of different readouts for position-sensitive solid-state photomultiplier arrays. Biomedical Physics and Engineering Express, 2017, 3, 045019.	1.2	3
38	Technical Note: A preliminary study of dualâ€tracer PET image reconstruction guided by FDG and/or MR kernels. Medical Physics, 2021, 48, 5259-5271.	3.0	3
39	MRI-aided kernel PET image reconstruction method based on texture features. Physics in Medicine and Biology, 2021, 66, 15NT03.	3.0	2
40	PSPMT/APD hybrid DOI detectors for the PET component of a dedicated breast PET/CT system — A feasibility study. , 2007, , .		1
41	LYSO-SSPM based PET detector module for combined PET/MRI applications. , 2010, , .		1