

# Yongfeng Yang

## List of Publications by Year in descending order

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41  
papers

1,502  
citations

331259

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h-index

301761

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41  
docs citations

41  
times ranked

1009  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial adaptive and transformer fusion network (STFNet) for low-count PET blind denoising with MRI. <i>Medical Physics</i> , 2022, 49, 343-356.	1.6	12
2	Parametric image generation with the uEXPLORER total-body PET/CT system through deep learning. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 2482-2492.	3.3	25
3	Eliminating CT radiation for clinical PET examination using deep learning. <i>European Journal of Radiology</i> , 2022, 154, 110422.	1.2	4
4	DPIR-Net: Direct PET Image Reconstruction Based on the Wasserstein Generative Adversarial Network. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021, 5, 35-43.	2.7	56
5	Evaluation of Two SiPM Arrays for Depth-Encoding PET Detectors Based on Dual-Ended Readout. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021, 5, 315-321.	2.7	8
6	Synthesizing PET/MR (T1-weighted) images from non-attenuation-corrected PET images. <i>Physics in Medicine and Biology</i> , 2021, 66, 135006.	1.6	4
7	Technical Note: A preliminary study of dual-tracer PET image reconstruction guided by FDG and/or MR kernels. <i>Medical Physics</i> , 2021, 48, 5259-5271.	1.6	3
8	MRI-aided kernel PET image reconstruction method based on texture features. <i>Physics in Medicine and Biology</i> , 2021, 66, 15NT03.	1.6	2
9	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. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 3416-3427.	3.9	23
10	CaGAN: A Cycle-Consistent Generative Adversarial Network With Attention for Low-Dose CT Imaging. <i>IEEE Transactions on Computational Imaging</i> , 2020, 6, 1203-1218.	2.6	48
11	PET Image Reconstruction Using a Cascading Back-Projection Neural Network. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2020, 14, 1100-1111.	7.3	16
12	A GPU-accelerated fully 3D OSEM image reconstruction for a high-resolution small animal PET scanner using dual-ended readout detectors. <i>Physics in Medicine and Biology</i> , 2020, 65, 245007.	1.6	22
13	Image reconstruction for positron emission tomography based on patch-based regularization and dictionary learning. <i>Medical Physics</i> , 2019, 46, 5014-5026.	1.6	22
14	Artifact correction in low-dose dental CT imaging using Wasserstein generative adversarial networks. <i>Medical Physics</i> , 2019, 46, 1686-1696.	1.6	60
15	Super-resolution of PET image based on dictionary learning and random forests. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019, 927, 320-329.	0.7	16
16	Performance comparison of two signal multiplexing readouts for SiPM-based pet detector. <i>Physics in Medicine and Biology</i> , 2019, 64, 23NT02.	1.6	23
17	Dual-ended readout small animal PET detector by using 0.5Åmm pixelated LYSO crystal arrays and SiPMs. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019, 917, 1-8.	0.7	41
18	Low-count PET image restoration using sparse representation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 888, 222-227.	0.7	6

#	ARTICLE	IF	CITATIONS
19	Performance of a high-resolution depth-encoding PET detector module using linearly-graded SiPM arrays. <i>Physics in Medicine and Biology</i> , 2018, 63, 035035.	1.6	38
20	Development of depth encoding small animal PET detectors using dual-ended readout of pixelated scintillator arrays with SiPMs. <i>Medical Physics</i> , 2018, 45, 613-621.	1.6	40
21	A Time-Walk Correction Method for PET Detectors Based on Leading Edge Discriminators. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2017, 1, 385-390.	2.7	33
22	Performance comparison of different readouts for position-sensitive solid-state photomultiplier arrays. <i>Biomedical Physics and Engineering Express</i> , 2017, 3, 045019.	0.6	3
23	Characterization of Large-Area SiPM Array for PET Applications. <i>IEEE Transactions on Nuclear Science</i> , 2016, 63, 8-16.	1.2	47
24	A Prototype High-Resolution Small-Animal PET Scanner Dedicated to Mouse Brain Imaging. <i>Journal of Nuclear Medicine</i> , 2016, 57, 1130-1135.	2.8	94
25	Evaluation of Matrix9 silicon photomultiplier array for small animal PET. <i>Medical Physics</i> , 2015, 42, 585-599.	1.6	21
26	Effects of reflector and crystal surface on the performance of a depth-encoding PET detector with dual-ended readout. <i>Medical Physics</i> , 2014, 41, 072503.	1.6	51
27	A Monte Carlo investigation of the spatial resolution performance of a small-animal PET scanner designed for mouse brain imaging studies. <i>Physica Medica</i> , 2014, 30, 76-85.	0.4	15
28	A Simple Capacitive Charge-Division Readout for Position-Sensitive Solid-State Photomultiplier Arrays. <i>IEEE Transactions on Nuclear Science</i> , 2013, 60, 3188-3197.	1.2	24
29	Comparison of large-area position-sensitive solid-state photomultipliers for small animal PET. <i>Physics in Medicine and Biology</i> , 2012, 57, 8119-8134.	1.6	23
30	Tapered LSO arrays for small animal PET. <i>Physics in Medicine and Biology</i> , 2011, 56, 139-153.	1.6	53
31	Signal and noise properties of position-sensitive avalanche photodiodes. <i>Physics in Medicine and Biology</i> , 2011, 56, 6327-6336.	1.6	15
32	LYSO-SSPM based PET detector module for combined PET/MRI applications. , 2010, , .		1
33	Depth of interaction calibration for PET detectors with dual-ended readout by PSAPDs. <i>Physics in Medicine and Biology</i> , 2009, 54, 433-445.	1.6	142
34	Investigation of Depth of Interaction Encoding for a Pixelated LSO Array With a Single Multi-Channel PMT. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 2594-2599.	1.2	28
35	A Prototype PET Scanner with DOI-Encoding Detectors. <i>Journal of Nuclear Medicine</i> , 2008, 49, 1132-1140.	2.8	99
36	PSPMT/APD Hybrid DOI Detectors for the PET Component of a Dedicated Breast PET/CT System—A Feasibility Study. <i>IEEE Transactions on Nuclear Science</i> , 2008, 55, 853-861.	1.2	12

#	ARTICLE	IF	CITATIONS
37	PSPMT/APD hybrid DOI detectors for the PET component of a dedicated breast PET/CT system &#x2014; A feasibility study. , 2007, , .		1
38	Observations regarding scatter fraction and NEC measurements for small animal PET. IEEE Transactions on Nuclear Science, 2006, 53, 127-132.	1.2	40
39	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.	1.6	142
40	Cardiac PET imaging in mice with simultaneous cardiac and respiratory gating. Physics in Medicine and Biology, 2005, 50, 2979-2989.	1.6	54
41	Optimization and performance evaluation of the microPET II scanner forin vivosmall-animal imaging. Physics in Medicine and Biology, 2004, 49, 2527-2545.	1.6	135