Zhicong Yu

List of Publications by Year
in descending order

23 papers	1,078 citations	686830 13 h-index	642321 23 g-index
23 all docs	23 docs citations	23 times ranked	756 citing authors

#	Article	IF	Citations
1	Human Imaging With Photon Counting–Based Computed Tomography at Clinical Dose Levels. Investigative Radiology, 2016, 51, 421-429.	3.5	205
2	Evaluation of conventional imaging performance in a research whole-body CT system with a photon-counting detector array. Physics in Medicine and Biology, 2016, 61, 1572-1595.	1.6	185
3	Dose-efficient ultrahigh-resolution scan mode using a photon counting detector computed tomography system. Journal of Medical Imaging, 2016, 3, 043504.	0.8	105
4	Spectral performance of a whole-body research photon counting detector CT: quantitative accuracy in derived image sets. Physics in Medicine and Biology, 2017, 62, 7216-7232.	1.6	90
5	Low‐dose CT image and projection dataset. Medical Physics, 2021, 48, 902-911.	1.6	89
6	Spectral prior image constrained compressed sensing (spectral PICCS) for photon-counting computed tomography. Physics in Medicine and Biology, 2016, 61, 6707-6732.	1.6	75
7	Noise performance of low-dose CT: comparison between an energy integrating detector and a photon counting detector using a whole-body research photon counting CT scanner. Journal of Medical Imaging, 2016, 3, 043503.	0.8	74
8	Simulation tools for two-dimensional experiments in x-ray computed tomography using the FORBILD head phantom. Physics in Medicine and Biology, 2012, 57, N237-N252.	1.6	58
9	How Low Can We Go in Radiation Dose for the Data-Completion Scan on a Research Whole-Body Photon-Counting Computed Tomography System. Journal of Computer Assisted Tomography, 2016, 40, 663-670.	0.5	47
10	Technical Note: Development and validation of an open data format for CT projection data. Medical Physics, 2015, 42, 6964-6972.	1.6	25
11	Image-based material decomposition with a general volume constraint for photon-counting CT. Proceedings of SPIE, 2015, 9412, .	0.8	24
12	Lesion insertion in the projection domain: Methods and initial results. Medical Physics, 2015, 42, 7034-7042.	1.6	18
13	Targeted Imaging of Renal Fibrosis Using Antibody-Conjugated Gold Nanoparticles in Renal Artery Stenosis. Investigative Radiology, 2018, 53, 623-628.	3.5	15
14	Estimation of signal and noise for a whole-body research photon-counting CT system. Journal of Medical Imaging, 2017, 4, 023505.	0.8	14
15	Axially Extended-Volume C-Arm CT Using a Reverse Helical Trajectory in the Interventional Room. IEEE Transactions on Medical Imaging, 2015, 34, 203-215.	5.4	10
16	Line plus arc source trajectories and their R-line coverage for long-object cone-beam imaging with a C-arm system. Physics in Medicine and Biology, 2011, 56, 3447-3471.	1.6	9
17	Extended ellipse-line-ellipse trajectory for long-object cone-beam imaging with a mounted C-arm system. Physics in Medicine and Biology, 2016, 61, 1829-1851.	1.6	8
18	Lesion insertion in projection domain for computed tomography image quality assessment. Proceedings of SPIE, 2015, 9412, .	0.8	7

#	Article	IF	Citations
19	Segmented slant hole collimator for stationary cardiac SPECT: Monte Carlo simulations. Medical Physics, 2015, 42, 5426-5434.	1.6	6
20	Overcoming calcium blooming and improving the quantification accuracy of percent area luminal stenosis by material decomposition of multi-energy computed tomography datasets. Journal of Medical Imaging, 2020, 7, 053501.	0.8	5
21	Estimation of signal and noise for a whole-body photon counting research CT system. Proceedings of SPIE, 2016, 9783, .	0.8	4
22	Low-dose performance of a whole-body research photon-counting CT scanner. Proceedings of SPIE, 2016, , .	0.8	3
23	Geometric Calibration and Image Reconstruction for a Segmented Slant-Hole Stationary Cardiac SPECT System. Journal of Nuclear Medicine Technology, 2015, 43, 103-112.	0.4	2