Yongshun Xiao

List of Publications by Year in descending order

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45 papers	646 citations	1163117 8 h-index	996975 15 g-index
45 all docs	45 docs citations	45 times ranked	640 citing authors

#	Article	IF	Citations
1	Rapid compton camera imaging for source terms investigation in the nuclear decommissioning with a subset-driven origin ensemble algorithm. Radiation Physics and Chemistry, 2022, 197, 110133.	2.8	9
2	Dual-domain sparse-view CT reconstruction with Transformers. Physica Medica, 2022, 101, 1-7.	0.7	8
3	Study of 3D fast Compton camera image reconstruction method by algebraic spatial sampling. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 954, 161345.	1.6	9
4	GPU Accelerated Stochastic Origin Ensemble Method With List-Mode Data for Compton Camera Imaging in Proton Therapy. IEEE Transactions on Radiation and Plasma Medical Sciences, 2020, 4, 243-252.	3.7	6
5	Simulation Study of Dose Estimation via Compton-based Prompt Gamma Imaging during Proton Therapy: a Deconvolution Approach based on Evolutionary Algorithm. , 2020, , .		0
6	Compton-based prompt gamma imaging using ordered origin ensemble algorithm with resolution recovery in proton therapy. Scientific Reports, 2019, 9, 1133.	3.3	25
7	Simulation study of interaction position correction for Compton camera based on origin ensembles with subdivision grid and transmission probability. , 2019, , .		1
8	U-net-based blocked artifacts removal method for dynamic computed tomography. Applied Optics, 2019, 58, 3748.	1.8	5
9	Simulation study of Compton camera imaging for human head phantom proton therapy. , 2019, , .		0
10	Resolution Recovery for Compton Camera based on Monte Carlo Spatial Sampling Method. , 2018, , .		0
11	Correct block artifacts by differential projection for a dynamic computed tomography system. Measurement Science and Technology, 2017, 28, 094001.	2.6	1
12	Application of Industrial CT System based on Synchronous Triggering Method in Aero-engine In-situ Dynamic Detection. , 2017, , .		0
13	A Novel Designed Small Angle CT System based on Overlay Rotation. , 2017, , .		0
14	3D Multi-focus Origin Ensembles Reconstruction Method for Compton Camera Imaging. , 2017, , .		1
15	X-ray digital radiography of operating aero-engines with a universal trigger module. , 2016, , .		0
16	Improve spatial resolution by projection restoration for CT reconstruction. , 2015, , .		1
17	A block-eliminating method by limited-view scan in a dynamic CT system for running aero-engine. , 2015, , .		1
18	Development Progress of the Neutron Imaging Station in CPHS. Physics Procedia, 2015, 69, 96-103.	1.2	6

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19	Few-View Prereconstruction Guided Tube Current Modulation Strategy Based on the Signal-to-Noise Ratio of the Sinogram. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-8.	1.3	0
20	Improve spatial resolution by Modeling Finite Focal Spot (MFFS) for industrial CT reconstruction. Optics Express, 2014, 22, 30641.	3.4	14
21	In-line phase-contrast imaging based on Tsinghua Thomson scattering x-ray source. Review of Scientific Instruments, 2014, 85, 083307.	1.3	7
22	Experimental study of hydraulic fracturing for shale by stimulated reservoir volume. Fuel, 2014, 128, 373-380.	6.4	393
23	The dynamic digital radiography system design and data calibration method for monitoring the running aero-engine. , 2014, , .		0
24	The focal spot model based high spatial resolution iterative reconstruction method for a dual-focus CT. , 2014, , .		1
25	A few-view reweighted sparsity hunting (FRESH) method for CT image reconstruction. Journal of X-Ray Science and Technology, 2013, 21, 161-176.	1.0	60
26	Study of dynamic data acquisition and processing in a novel x-ray process tomography system for rapid rotating aero-engine. , 2013, , .		1
27	Motion registration and correction based iterative reconstruction method for instant CT. , 2012, , .		1
28	A reweighted total variation minimization method for few view CT reconstruction in the instant CT. , 2012, , .		1
29	A novel edge protective adaptive filter for high energy X-ray imaging technology. , 2012, , .		0
30	An interaction based CT reconstruction algorithm for blocked projection data in a dynamic ICT system. , 2012, , .		4
31	Preliminary study of rotary motion blurs in a novel industry CT imaging system. , 2011, , .		4
32	Geometric calibration of cone-beam CT with a flat-panel detector. , 2011, , .		8
33	Monte Carlo simulation of grating-based neutron phase contrast imaging at CPHS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 651, 12-15.	1.6	3
34	Scheme for radiography/tomography with a low-brilliance neutron source at the CPHS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 651, 32-35.	1.6	9
35	Preliminary study of coded-source-based neutron imaging at the CPHS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 651, 131-134.	1.6	5
36	Phase-contrast tomosynthetic experiment on biological samples with synchrotron radiation. , 2010, , .		3

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37	An improved TV minimization algorithm for incomplete data problem in computer tomography. , 2010, , .		2
38	Theoretical noise estimation in 3D X-ray cone-beam CT reconstruction. , 2010, , .		0
39	SNM detection based on X-ray scattering. , 2010, , .		1
40	Design of synchronized data acquisition system based on switched integrator amplifier for the industrial CT. , 2009, , .		0
41	Accelerated CT Reconstruction Using GPU SIMD Parallel Computing with Bilinear Warping Method. , 2009, , .		5
42	Metal artifact reduction in dual energy CT by sinogram segmentation based on active contour model and TV inpainting. , 2009, , .		11
43	System design and experimental research on tip clearance measurement of areo-engines by digital radiograph. , 2009, , .		0
44	Metal artifact reduction in CT images by sinogram TV inpainting. , 2008, , .		27
45	X-ray spectrum estimation from transmission measurements using the expectation maximization method. , 2007, , .		13