

# Yuxiang Xing

## List of Publications by Year in descending order

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77  
papers

637  
citations

687363

13  
h-index

752698

20  
g-index

77  
all docs

77  
docs citations

77  
times ranked

604  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Convolutional Neural Network for Ulcer Recognition in Wireless Capsule Endoscopy: Experimental Feasibility and Optimization. Computational and Mathematical Methods in Medicine, 2019, 1-14.	1.3	43
2	Channelized hotelling and human observer study of optimal smoothing in SPECT MAP reconstruction. IEEE Transactions on Nuclear Science, 2004, 51, 733-741.	2.0	37
3	Few-View Projection Reconstruction With an Iterative Reconstruction-Reprojection Algorithm and TV Constraint. IEEE Transactions on Nuclear Science, 2009, 56, 1377-1382.	2.0	37
4	A general region-of-interest image reconstruction approach with truncated Hilbert transform. Journal of X-Ray Science and Technology, 2009, 17, 135-152.	1.0	36
5	Metal artifact reduction for practical dental computed tomography by improving interpolation-based reconstruction with deep learning. Medical Physics, 2019, 46, e823-e834.	3.0	33
6	A dual-domain deep learning-based reconstruction method for fully 3D sparse data helical CT. Physics in Medicine and Biology, 2020, 65, 245030.	3.0	28
7	Metal artifact reduction in CT images by sinogram TV inpainting. , 2008, , .		27
8	Multienergy CT acquisition and reconstruction with a stepped tube potential scan. Medical Physics, 2015, 42, 282-296.	3.0	23
9	Low-Dose Lung CT Image Restoration Using Adaptive Prior Features From Full-Dose Training Database. IEEE Transactions on Medical Imaging, 2017, 36, 2510-2523.	8.9	23
10	Straight-Line-Trajectory-Based X-Ray Tomographic Imaging for Security Inspections: System Design, Image Reconstruction and Preliminary Results. IEEE Transactions on Nuclear Science, 2013, 60, 3955-3968.	2.0	22
11	Anisotropic total variation for limited-angle CT reconstruction. , 2010, , .		21
12	A cone-beam tomography system with a reduced size planar detector: A backprojection-filtration reconstruction algorithm as well as numerical and practical experiments. Applied Radiation and Isotopes, 2007, 65, 1041-1047.	1.5	17
13	A Reconstruction Method for Dual High-Energy CT With MeV X-Rays. IEEE Transactions on Nuclear Science, 2011, 58, 537-546.	2.0	17
14	A curve-filtered FDK (C-FDK) reconstruction algorithm for circular cone-beam CT. Journal of X-Ray Science and Technology, 2011, 19, 355-371.	1.0	17
15	Improve angular resolution for sparse-view CT with residual convolutional neural network. , 2018, , .		17
16	CT artifact reduction via U-net CNN. , 2018, , .		15
17	Stationary computed tomography with source and detector in linear symmetric geometry: Direct filtered backprojection reconstruction. Medical Physics, 2020, 47, 2222-2236.	3.0	14
18	Fully connected neural network for virtual monochromatic imaging in spectral computed tomography. Journal of Medical Imaging, 2018, 6, 1.	1.5	14

#	ARTICLE	IF	CITATIONS
19	X-ray spectrum estimation from transmission measurements using the expectation maximization method. , 2007, , .		13
20	An Improved Form of Linogram Algorithm for Image Reconstruction. IEEE Transactions on Nuclear Science, 2008, 55, 552-559.	2.0	12
21	An Extrapolation Method for Image Reconstruction from a Straight-line Trajectory. , 2006, , .		11
22	Geometry calibration method for a cone-beam CT system. Medical Physics, 2017, 44, 1692-1706.	3.0	11
23	Recent Advance in Exact ROI/VOI Image Reconstruction. Current Medical Imaging, 2010, 6, 112-118.	0.8	10
24	Reduction of metal artefacts in CT with Cycle-GAN. , 2018, , .		9
25	Motion-compensated reconstruction method based on rigid motion model with multi-object. Tsinghua Science and Technology, 2010, 15, 120-126.	6.1	8
26	Geometric calibration of cone-beam CT with a flat-panel detector. , 2011, , .		8
27	Fourier Properties of Symmetric-Geometry Computed Tomography and Its Linogram Reconstruction With Neural Network. IEEE Transactions on Medical Imaging, 2020, 39, 4445-4457.	8.9	7
28	Fast imaging by a single-slice-detector helical CT. , 2008, , .		6
29	A preliminary study of OpenCL for accelerating CT reconstruction and image recognition. , 2009, , .		6
30	A Model-Based Unsupervised Deep Learning Method for Low-Dose CT Reconstruction. IEEE Access, 2020, 8, 159260-159273.	4.2	6
31	Characterization of tissue-specific pre-log Bayesian CT reconstruction by texture-dose relationship. Medical Physics, 2020, 47, 5032-5047.	3.0	6
32	Multi-segment limited-angle CT reconstruction via a BM3D filter. , 2012, , .		5
33	Improve 3D cone-beam CT reconstruction by slice-wise deep learning. , 2018, , .		5
34	A Self-supervised Deep Learning Network for Low-Dose CT Reconstruction. , 2018, , .		5
35	A simulation study on basis material composition for dual energy CT imaging at high-energy level. , 2008, , .		4
36	Reducing metal artifacts by pre-processing projection data in dental CBCT with a half-size detector. , 2011, , .		4

#	ARTICLE	IF	CITATIONS
37	A restoration method for incomplete data in DECT. , 2011, , .		4
38	A low-cost dual energy CT system with sparse data. Tsinghua Science and Technology, 2014, 19, 184-194.	6.1	4
39	An empirical material decomposition method (EMDM) for spectral CT. , 2016, , .		4
40	Wagon Number Recognition Based on the YOLOv3 Detector. , 2019, , .		4
41	The trigonometric orthogonality of phase-stepping curves in grating-based x-ray phase-contrast imaging: Integral property and its implications for noise optimization. Medical Physics, 2020, 47, 1189-1198.	3.0	4
42	A General Exact Method for Synthesizing Parallel-beam Projections from Cone-beam Projections by Filtered Backprojection. , 2006, , .		3
43	A volumetric object detection framework with dual-energy CT. , 2008, , .		3
44	A general adaptive decomposition method for multi-energy spectral CT. , 2013, , .		3
45	DualRes-UNet: Limited Angle Artifact Reduction for Computed Tomography. , 2019, , .		3
46	Feasibility study: Low-cost dual energy CT for security inspection. , 2009, , .		2
47	An improved TV minimization algorithm for incomplete data problem in computer tomography. , 2010, , .		2
48	Calibration of the error from spectrum estimation for a dual energy CT. , 2012, , .		2
49	Limited angle reconstruction with two dictionaries. , 2013, , .		2
50	Hybrid reconstruction method for exterior CT. , 2014, , .		2
51	A real-time tracking method based on SURF. , 2015, , .		2
52	Characterizing CT Reconstruction of Pre-log Transmission Data toward Ultra-low Dose Imaging by Texture Measures. , 2018, , .		2
53	Interweaving Network: A Novel Monochromatic Image Synthesis Method for a Photon-Counting Detector CT System. IEEE Access, 2020, 8, 217701-217710.	4.2	2
54	Fourier-based interpretation and noise analysis of the moments of small-angle x-ray scattering in grating-based x-ray phase contrast imaging. Optics Express, 2021, 29, 21902.	3.4	2

#	ARTICLE	IF	CITATIONS
55	A CT image feature space (CTIS) loss for restoration with deep learning-based methods. Physics in Medicine and Biology, 2022, 67, 055010.	3.0	2
56	Reciprocal-FDK reconstruction for x-ray diffraction computed tomography. Physics in Medicine and Biology, 2022, 67, 095009.	3.0	2
57	A weighted FBP reconstruction for plasmasphere CT imaging. , 2008, , .		1
58	Picture comparison binarization method for cosmic ray muon radiography. , 2008, , .		1
59	An edge-preserving total variation denoising method for DECT image. , 2013, , .		1
60	Hybrid decomposition method for dual energy CT. , 2014, , .		1
61	Synthesize monochromatic images in spectral CT by dual-domain deep learning. , 2019, , .		1
62	Analytical covariance estimation for iterative CT reconstruction methods. Biomedical Physics and Engineering Express, 2022, 8, 035007.	1.2	1
63	Dynamic GMRF priors for MAP reconstructions. , 0, , .		0
64	A New FBP-type Algorithm on Improving Feldkamp Reconstruction for Z-axially Untruncated Data from a Circular Orbit. , 2006, , .		0
65	A free geometry fan-beam CT for peripheral ROI imaging. , 2007, , .		0
66	Bayesian reconstructions with PDE image model for emission tomography. , 2007, , .		0
67	3D region-of-interest (ROI) reconstruction from truncated data in circular cone-beam CT. , 2008, , .		0
68	ROC analysis of 3D X-ray CT performance for lesion detection. , 2009, , .		0
69	Research on ATI-CAL for accelerating FBP reconstruction. , 2009, , .		0
70	Real-Time Visualize the 3D reconstruction procedure using CUDA. , 2009, , .		0
71	An iterative reconstruction method for multiple objects with rigid motion model. , 2009, , .		0
72	Theoretical noise estimation in 3D X-ray cone-beam CT reconstruction. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
73	Dual energy CT reconstruction method for incomplete high energy data. , 2013, , .		0
74	Energy calibration studyl of CdTe detector working in time over threshold mode. , 2015, , .		0
75	Dual-energy CT Reconstruction using Guided Image Filtering. , 2016, , .		0
76	Experimental study to optimize configurations of PCD Spectral CT. Journal of X-Ray Science and Technology, 2018, 26, 1011-1027.	1.0	0
77	Fluence adaptation for contrastâ€based dose optimization in xâ€ray phaseâ€contrast imaging. Medical Physics, 2021, 48, 6106-6120.	3.0	0