Wei Zhao

List of Publications by Year in Descending Order

50 papers	708 citations	15 h-index	24 g-index
64 ext. papers	1,012 ext. citations	4.9 avg, IF	4.39 L-index

#	Paper	IF	Citations
50	Novel-view X-ray projection synthesis through geometry-integrated deep learning.. *Medical Image Analysis*, **2022**, 77, 102372	15.4	0
49	Dose Prediction Using a Three-Dimensional Convolutional Neural Network for Nasopharyngeal Carcinoma With Tomotherapy. *Frontiers in Oncology*, **2021**, 11, 752007	5.3	2
48	Human-level comparable control volume mapping with a deep unsupervised-learning model for image-guided radiation therapy.. *Computers in Biology and Medicine*, **2021**, 141, 105139	7	0
47	Modularized data-driven reconstruction framework for nonideal focal spot effect elimination in computed tomography. *Medical Physics*, **2021**, 48, 2245-2257	4.4	3
46	Estimating dual-energy CT imaging from single-energy CT data with material decomposition convolutional neural network. *Medical Image Analysis*, **2021**, 70, 102001	15.4	10
45	High-resolution multicontrast tomography with an X-ray microarray anode-structured target source. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	3
44	CD-Net: Comprehensive Domain Network With Spectral Complementary for DECT Sparse-View Reconstruction. *IEEE Transactions on Computational Imaging*, **2021**, 7, 436-447	4.5	8
43	Automated contour propagation of the prostate from pCT to CBCT images via deep unsupervised learning. *Medical Physics*, **2021**, 48, 1764-1770	4.4	2
42	Noise2Context: Context-assisted learning 3D thin-layer for low-dose CT. *Medical Physics*, **2021**, 48, 5794-5803	4.4	3
41	Metal artifact reduction in 2D CT images with self-supervised cross-domain learning. *Physics in Medicine and Biology*, **2021**, 66,	3.8	1
40	Rotation-Oriented Collaborative Self-Supervised Learning for Retinal Disease Diagnosis. *IEEE Transactions on Medical Imaging*, **2021**, 40, 2284-2294	11.7	6
39	TransCT: Dual-Path Transformer for Low Dose Computed Tomography. *Lecture Notes in Computer Science*, **2021**, 55-64	0.9	11
38	Artificial intelligence in image-guided radiotherapy: a review of treatment target localization. *Quantitative Imaging in Medicine and Surgery*, **2021**, 11, 4881-4894	3.6	1
37	Whole-body tracking of single cells via positron emission tomography. *Nature Biomedical Engineering*, **2020**, 4, 835-844	19	21
36	A deep learning framework for prostate localization in cone beam CT-guided radiotherapy. *Medical Physics*, **2020**, 47, 4233-4240	4.4	10
35	Restarted primal-dual Newton conjugate gradient method for enhanced spatial resolution of reconstructed cone-beam x-ray luminescence computed tomography images. *Physics in Medicine and Biology*, **2020**, 65, 135008	3.8	4
34	Obtaining dual-energy computed tomography (CT) information from a single-energy CT image for quantitative imaging analysis of living subjects by using deep learning. *Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing*, **2020**, 25, 139-148	1.3	5

33	High-speed X-ray-induced luminescence computed tomography. *Journal of Biophotonics*, **2020**, 13, e202000066	3.1	4
32	Beam data modeling of linear accelerators (linacs) through machine learning and its potential applications in fast and robust linac commissioning and quality assurance. *Radiotherapy and Oncology*, **2020**, 153, 122-129	5.3	6
31	Incorporating prior knowledge via volumetric deep residual network to optimize the reconstruction of sparsely sampled MRI. *Magnetic Resonance Imaging*, **2020**, 66, 93-103	3.3	14
30	Scatter correction for a clinical cone-beam CT system using an optimized stationary beam blocker in a single scan. *Medical Physics*, **2019**, 46, 3165-3179	4.4	6
29	Incorporating imaging information from deep neural network layers into image guided radiation therapy (IGRT). *Radiotherapy and Oncology*, **2019**, 140, 167-174	5.3	16
28	Markerless Pancreatic Tumor Target Localization Enabled By Deep Learning. *International Journal of Radiation Oncology Biology Physics*, **2019**, 105, 432-439	4	23
27	Reduced acquisition time for L-shell x-ray fluorescence computed tomography using polycapillary x-ray optics. *Medical Physics*, **2019**, 46, 5696-5702	4.4	5
26	Harnessing the power of deep learning for volumetric CT imaging with single or limited number of projections **2019**,		3
25	A deep learning approach for dual-energy CT imaging using a single-energy CT data **2019**,		5
24	X-ray-induced shortwave infrared luminescence computed tomography. *Optics Letters*, **2019**, 44, 4769-4772	3	8
23	Toward Markerless Image-Guided Radiotherapy Using Deep Learning for Prostate Cancer. *Lecture Notes in Computer Science*, **2019**, 34-42	0.9	2
22	Patient-specific reconstruction of volumetric computed tomography images from a single projection view via deep learning. *Nature Biomedical Engineering*, **2019**, 3, 880-888	19	62
21	Robust Beam Hardening Artifacts Reduction for Computed Tomography Using Spectrum Modeling. *IEEE Transactions on Computational Imaging*, **2019**, 5, 333-342	4.5	8
20	A unified material decomposition framework for quantitative dual- and triple-energy CT imaging. *Medical Physics*, **2018**, 45, 2964-2977	4.4	14
19	Synergistically Enhancing the Therapeutic Effect of Radiation Therapy with Radiation Activatable and Reactive Oxygen Species-Releasing Nanostructures. *ACS Nano*, **2018**, 12, 4946-4958	16.7	69
18	Superpixel-based and boundary-sensitive convolutional neural network for automated liver segmentation. *Physics in Medicine and Biology*, **2018**, 63, 095017	3.8	45
17	Polarized x-ray excitation for scatter reduction in x-ray fluorescence computed tomography. *Medical Physics*, **2018**, 45, 3741	4.4	10
16	Segmentation-free x-ray energy spectrum estimation for computed tomography using dual-energy material decomposition. *Journal of Medical Imaging*, **2017**, 4, 023506	2.6	16

15	Synthesis, Characterization, and Biomedical Applications of a Targeted Dual-Modal Near-Infrared-II Fluorescence and Photoacoustic Imaging Nanoprobe. *ACS Nano*, **2017**, 11, 12276-12291	16.7	108
14	Using edge-preserving algorithm with non-local mean for significantly improved image-domain material decomposition in dual-energy CT. *Physics in Medicine and Biology*, **2016**, 61, 1332-51	3.8	24
13	Segmentation-free x-ray energy spectrum estimation for computed tomography **2016**,		1
12	A model-based scatter artifacts correction for cone beam CT. *Medical Physics*, **2016**, 43, 1736	4.4	27
11	Patient-specific scatter correction for flat-panel detector-based cone-beam CT imaging. *Physics in Medicine and Biology*, **2015**, 60, 1339-65	3.8	28
10	A scatter correction method for contrast-enhanced dual-energy digital breast tomosynthesis. *Physics in Medicine and Biology*, **2015**, 60, 6323-54	3.8	17
9	An indirect transmission measurement-based spectrum estimation method for computed tomography. *Physics in Medicine and Biology*, **2015**, 60, 339-57	3.8	16
8	Energy spectrum extraction and optimal imaging via dual-energy material decomposition **2015**,		1
7	Iterative CT shading correction with no prior information. *Physics in Medicine and Biology*, **2015**, 60, 8437-55	3.8	23
6	A patient-specific scatter artifacts correction method **2014**,		8
5	Measurement of the spatial resolution and the relative density resolution in an industrial cone-beam micro computed tomography system. *Chinese Physics C*, **2013**, 37, 078202	2.2	1
4	Computed laminography and reconstruction algorithm. *Chinese Physics C*, **2012**, 36, 777-783	2.2	6
3	The effect of angular dose distribution on the detection of microcalcifications in digital breast tomosynthesis. *Medical Physics*, **2011**, 38, 2455-66	4.4	27
2	Beam hardening correction for a cone-beam CT system and its effect on spatial resolution. *Chinese Physics C*, **2011**, 35, 978-985	2.2	7
1	CellGPS: Whole-body tracking of single cells by positron emission tomography		1