

# Lifeng Yu

## List of Publications by Year in descending order

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Version: 2024-02-01

112  
papers

5,315  
citations

159358

30  
h-index

88477

70  
g-index

116  
all docs

116  
docs citations

116  
times ranked

4561  
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical evaluation of a phantom-based deep convolutional neural network for whole-body-low-dose and ultra-low-dose CT skeletal surveys. <i>Skeletal Radiology</i> , 2022, 51, 145-151.	1.2	11
2	Deep learning model observer for a low-contrast hepatic metastases localization task in computed tomography. <i>Medical Physics</i> , 2022, 49, 70-83.	1.6	7
3	Simultaneous dual-contrast imaging using energy-integrating detector multi-energy CT: An in vivo feasibility study. <i>Medical Physics</i> , 2022, 49, 1458-1467.	1.6	3
4	Dependence of Water-equivalent Diameter and Size-specific Dose Estimates on CT Tube Potential. <i>Radiology</i> , 2022, 303, 404-411.	3.6	4
5	First Clinical Photon-counting Detector CT System: Technical Evaluation. <i>Radiology</i> , 2022, 303, 130-138.	3.6	201
6	Utility of an automatic adaptive iterative metal artifact reduction AiMAR algorithm in improving CT imaging of patients with hip prostheses evaluated for suspected bladder malignancy. <i>Abdominal Radiology</i> , 2022, 47, 2158-2167.	1.0	3
7	Benefits of iterative metal artifact reduction and dual-energy CT towards mitigating artifact in the setting of total shoulder prostheses. <i>Skeletal Radiology</i> , 2021, 50, 51-58.	1.2	10
8	Low-dose CT image and projection dataset. <i>Medical Physics</i> , 2021, 48, 902-911.	1.6	89
9	Initial testing of pegfilgrastim (Neulasta Onpro) on a body injector in multiple radiological imaging environments. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 343-349.	0.8	1
10	Advances in cancer treatment: a new therapeutic target, Annexin A2. <i>Journal of Cancer</i> , 2021, 12, 3587-3596.	1.2	24
11	A web-based software platform for efficient and quantitative CT image quality assessment and protocol optimization. , 2021, 11595, .		2
12	Random search as a neural network optimization strategy for Convolutional-Neural-Network (CNN)-based noise reduction in CT. , 2021, 11596, .		10
13	Deep-learning lesion and noise insertion for virtual clinical trial in chest CT. , 2021, 11595, .		0
14	Feasibility of using megavoltage computed tomography to reduce proton range uncertainty: A simulation study. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 131-140.	0.8	2
15	Basal Ganglia Calcification Is Associated With Local and Systemic Metabolic Mechanisms in Adult Hypoparathyroidism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, 1900-1917.	1.8	7
16	Overexpression of PTPRN Promotes Metastasis of Lung Adenocarcinoma and Suppresses NK Cell Cytotoxicity. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 622018.	1.8	9
17	Energy-integrating detector multi-energy CT: Implementation and a phantom study. <i>Medical Physics</i> , 2021, 48, 4857-4871.	1.6	2
18	Deep learning enabled ultra-fast pitch acquisition in clinical X-ray computed tomography. <i>Medical Physics</i> , 2021, 48, 5712-5726.	1.6	5

#	ARTICLE	IF	CITATIONS
19	CT Noise-Reduction Methods for Lower-Dose Scanning: Strengths and Weaknesses of Iterative Reconstruction Algorithms and New Techniques. <i>Radiographics</i> , 2021, 41, 1493-1508.	1.4	41
20	An interactive eye-tracking system for measuring radiologists' visual fixations in volumetric CT images: Implementation and initial eye-tracking accuracy validation. <i>Medical Physics</i> , 2021, 48, 6710-6723.	1.6	4
21	Procedure for optimal implementation of automatic tube potential selection in pediatric CT to reduce radiation dose and improve workflow. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 194-202.	0.8	1
22	A Immune-Related Signature Associated with TME Can Serve as a Potential Biomarker for Survival and Sorafenib Resistance in Liver Cancer. <i>OncoTargets and Therapy</i> , 2021, 14, 5065-5083.	1.0	3
23	Synthesizing images from multiple kernels using a deep convolutional neural network. <i>Medical Physics</i> , 2020, 47, 422-430.	1.6	26
24	Quantitative accuracy and dose efficiency of dual-contrast imaging using dual-energy CT: a phantom study. <i>Medical Physics</i> , 2020, 47, 441-456.	1.6	13
25	Observer Performance for Detection of Pulmonary Nodules at Chest CT over a Large Range of Radiation Dose Levels. <i>Radiology</i> , 2020, 297, 699-707.	3.6	15
26	Fat quantification of the rotator cuff musculature using dual-energy CT—A pilot study. <i>European Journal of Radiology</i> , 2020, 130, 109145.	1.2	11
27	The LQT-associated calmodulin mutant E141G induces disturbed $Ca^{2+}$ -dependent binding and a flickering gating mode of the $Ca_v1.2$ channel. <i>American Journal of Physiology - Cell Physiology</i> , 2020, 318, C991-C1004.	2.1	5
28	Image quality in abdominal CT using an iodine contrast reduction algorithm employing patient size and weight and low kV CT technique. <i>Acta Radiologica</i> , 2020, 61, 1186-1195.	0.5	4
29	Deep-learning-based model observer for a lung nodule detection task in computed tomography. <i>Journal of Medical Imaging</i> , 2020, 7, 1.	0.8	9
30	Multi-energy CT with triple X-ray beams: a feasibility animal study. , 2020, 11312, .		0
31	Overcoming calcium blooming and improving the quantification accuracy of percent area luminal stenosis by material decomposition of multi-energy computed tomography datasets. <i>Journal of Medical Imaging</i> , 2020, 7, 053501.	0.8	5
32	Technical Note: Increased photon starvation artifacts at low helical pitch in ultra-low-dose CT. <i>Medical Physics</i> , 2019, 46, 5538-5543.	1.6	1
33	State of the Art in Abdominal CT: The Limits of Iterative Reconstruction Algorithms. <i>Radiology</i> , 2019, 293, 491-503.	3.6	126
34	Intrinsic adriamycin resistance in p53-mutated breast cancer is related to the miR-30c/FANCF/REVI-mediated DNA damage response. <i>Cell Death and Disease</i> , 2019, 10, 666.	2.7	19
35	A deep learning- and partial least square regression-based model observer for a low-contrast lesion detection task in CT. <i>Medical Physics</i> , 2019, 46, 2052-2063.	1.6	27
36	Low-Dose CT Image Denoising Using Cycle-Consistent Adversarial Networks. , 2019, , .		13

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37	Lead Shielding in Pediatric Chest CT: Effect of Apron Placement Outside the Scan Volume on Radiation Dose Reduction. American Journal of Roentgenology, 2019, 212, 151-156.	1.0	16
38	MFG-E8 overexpression is associated with poor prognosis in breast cancer patients. Pathology Research and Practice, 2019, 215, 490-498.	1.0	11
39	Clinical Assessment of Metal Artifact Reduction Methods in Dual-Energy CT Examinations of Instrumented Spines. American Journal of Roentgenology, 2019, 212, 395-401.	1.0	20
40	Breathe New Life Into Your Chest CT Exams: Using Advanced Acquisition and Postprocessing Techniques. Current Problems in Diagnostic Radiology, 2019, 48, 152-160.	0.6	4
41	Identification of a novel cell cycle-related gene signature predicting survival in patients with gastric cancer. Journal of Cellular Physiology, 2019, 234, 6350-6360.	2.0	68
42	Impact of prior information on material decomposition in dual- and multienergy computed tomography. Journal of Medical Imaging, 2019, 6, 1.	0.8	7
43	Chest computed tomography angiography in children on extracorporeal membrane oxygenation (ECMO). Pediatric Radiology, 2018, 48, 1021-1030.	1.1	7
44	Interlaboratory comparison of channelized hotelling observer computation. Medical Physics, 2018, 45, 3019-3030.	1.6	15
45	Evaluation of cross-sectional and longitudinal changes in volumetric bone mineral density in postmenopausal women using single- versus dual-energy quantitative computed tomography. Bone, 2018, 112, 145-152.	1.4	22
46	Low kV versus dual-energy virtual monoenergetic CT imaging for proven liver lesions: what are the advantages and trade-offs in conspicuity and image quality? A pilot study. Abdominal Radiology, 2018, 43, 1404-1412.	1.0	30
47	Moesin is an independent prognostic marker for ER-positive breast cancer. Oncology Letters, 2018, 17, 1921-1933.	0.8	12
48	Concern about a recently published paper in the European Journal of Radiology. European Journal of Radiology, 2018, 109, 203.	1.2	0
49	High PITX1 expression in lung adenocarcinoma patients is associated with DNA methylation and poor prognosis. Pathology Research and Practice, 2018, 214, 2046-2053.	1.0	24
50	Observer Performance with Varying Radiation Dose and Reconstruction Methods for Detection of Hepatic Metastases. Radiology, 2018, 289, 455-464.	3.6	40
51	Evaluation of projection- and dual-energy-based methods for metal artifact reduction in CT using a phantom study. Journal of Applied Clinical Medical Physics, 2018, 19, 252-260.	0.8	27
52	Dual-source multienergy CT with triple or quadruple x-ray beams. Journal of Medical Imaging, 2018, 5, 1.	0.8	14
53	Three-material decomposition in multi-energy CT: impact of prior information on noise and bias. , 2018, 10573, .		8
54	Correlation between model observers in uniform background and human observer in patient liver background for a low-contrast detection task in CT. , 2018, 10577, .		2

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55	An effective noise reduction method for multi-energy CT images that exploit spatio-spectral features. <i>Medical Physics</i> , 2017, 44, 1610-1623.	1.6	37
56	Technical Note: Insertion of digital lesions in the projection domain for dual-source, dual-energy CT. <i>Medical Physics</i> , 2017, 44, 1655-1660.	1.6	3
57	Selection of optimal tube potential settings for dual-energy CT virtual mono-energetic imaging of iodine in the abdomen. <i>Abdominal Radiology</i> , 2017, 42, 2289-2296.	1.0	14
58	A virtual clinical trial using projection-based nodule insertion to determine radiologist reader performance in lung cancer screening CT. , 2017, 10132, .		6
59	Estimating patient dose from CT exams that use automatic exposure control: Development and validation of methods to accurately estimate tube current values. <i>Medical Physics</i> , 2017, 44, 4262-4275.	1.6	27
60	Correlation between a 2D channelized Hotelling observer and human observers in a low-contrast detection task with multislice reading in CT. <i>Medical Physics</i> , 2017, 44, 3990-3999.	1.6	37
61	Evaluation of a projection-domain lung nodule insertion technique in thoracic computed tomography. <i>Journal of Medical Imaging</i> , 2017, 4, 013510.	0.8	4
62	Estimation of Observer Performance for Reduced Radiation Dose Levels in CT. <i>Academic Radiology</i> , 2017, 24, 876-890.	1.3	38
63	Practical implementation of channelized hotelling observers: effect of ROI size. <i>Proceedings of SPIE</i> , 2017, 10132, .	0.8	5
64	Low-dose CT for the detection and classification of metastatic liver lesions: Results of the 2016 Low Dose CT Grand Challenge. <i>Medical Physics</i> , 2017, 44, e339-e352.	1.6	132
65	Use of a channelized Hotelling observer to assess CT image quality and optimize dose reduction for iteratively reconstructed images. <i>Journal of Medical Imaging</i> , 2017, 4, 1.	0.8	9
66	An open library of CT patient projection data. <i>Proceedings of SPIE</i> , 2016, 9783, .	0.8	7
67	Dual-source multi-energy CT with triple or quadruple x-ray beams. , 2016, 9783, .		10
68	Technical Note: Display window setting: An important factor for detecting subtle but clinically relevant artifacts in daily CT quality control. <i>Medical Physics</i> , 2016, 43, 6413-6417.	1.6	2
69	Technical Note: Improved CT number stability across patient size using dual-energy CT virtual monoenergetic imaging. <i>Medical Physics</i> , 2016, 43, 513-517.	1.6	36
70	Impact of number of repeated scans on model observer performance for a low-contrast detection task in computed tomography. <i>Journal of Medical Imaging</i> , 2016, 3, 023504.	0.8	15
71	Validation of a Projection-domain Insertion of Liver Lesions into CT Images. <i>Academic Radiology</i> , 2016, 23, 1221-1229.	1.3	5
72	Evaluation of a projection-domain lung nodule insertion technique in thoracic CT. , 2016, 9783, .		5

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73	Construction of realistic phantoms from patient images and a commercial three-dimensional printer. <i>Journal of Medical Imaging</i> , 2016, 3, 033501.	0.8	28
74	Predicting detection performance with model observers: Fourier domain or spatial domain?. <i>Proceedings of SPIE</i> , 2016, 9783, .	0.8	4
75	PKA and phosphatases attached to the Ca <sub>v</sub> 1.2 channel regulate channel activity in cell-free patches. <i>American Journal of Physiology - Cell Physiology</i> , 2016, 310, C136-C141.	2.1	11
76	Role of protein phosphatases in the run down of guinea pig cardiac Cav1.2 Ca <sup>2+</sup> channels. <i>American Journal of Physiology - Cell Physiology</i> , 2016, 310, C773-C779.	2.1	9
77	Pediatric thoracic CT angiography at 70 kV: a phantom study to investigate the effects on image quality and radiation dose. <i>Pediatric Radiology</i> , 2016, 46, 1114-1119.	1.1	14
78	Dealing with Uncertainty in CT Images. <i>Radiology</i> , 2016, 279, 5-10.	3.6	21
79	MiR-302a/b/c/d cooperatively sensitizes breast cancer cells to adriamycin via suppressing P-glycoprotein(P-gp) by targeting MAP/ERK kinase kinase 1 (MEKK1). <i>Journal of Experimental and Clinical Cancer Research</i> , 2016, 35, 25.	3.5	82
80	The influence of focal spot blooming on high-contrast spatial resolution in CT imaging. <i>Medical Physics</i> , 2015, 42, 6011-6020.	1.6	13
81	Technical Note: Development and validation of an open data format for CT projection data. <i>Medical Physics</i> , 2015, 42, 6964-6972.	1.6	25
82	A robust noise reduction technique for time resolved CT. <i>Medical Physics</i> , 2015, 43, 347-359.	1.6	11
83	Lesion insertion in the projection domain: Methods and initial results. <i>Medical Physics</i> , 2015, 42, 7034-7042.	1.6	18
84	Maximizing Iodine Contrast-to-Noise Ratios in Abdominal CT Imaging through Use of Energy Domain Noise Reduction and Virtual Monoenergetic Dual-Energy CT. <i>Radiology</i> , 2015, 276, 562-570.	3.6	100
85	Observer Performance in the Detection and Classification of Malignant Hepatic Nodules and Masses with CT Image-Space Denoising and Iterative Reconstruction. <i>Radiology</i> , 2015, 276, 465-478.	3.6	51
86	Image-based material decomposition with a general volume constraint for photon-counting CT. <i>Proceedings of SPIE</i> , 2015, 9412, .	0.8	24
87	Lesion insertion in projection domain for computed tomography image quality assessment. <i>Proceedings of SPIE</i> , 2015, 9412, .	0.8	7
88	Impact of number of repeated scans on model observer performance for a low-contrast detection task in CT. <i>Proceedings of SPIE</i> , 2015, 9416, .	0.8	1
89	Characterization of Urinary Stone Composition by Use of Third-Generation Dual-Source Dual-Energy CT With Increased Spectral Separation. <i>American Journal of Roentgenology</i> , 2015, 205, 1203-1207.	1.0	36
90	Electrophysiological effect and the gating mechanism of astragaloside IV on I-type Ca <sup>2+</sup> channels of guinea-pig ventricular myocytes. <i>European Journal of Pharmacology</i> , 2015, 760, 27-35.	1.7	6

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91	Size-specific Dose Estimates for Chest, Abdominal, and Pelvic CT: Effect of Inpatient Variability in Water-equivalent Diameter. <i>Radiology</i> , 2015, 276, 184-190.	3.6	66
92	Construction of realistic liver phantoms from patient images using 3D printer and its application in CT image quality assessment. , 2015, 2015, .		8
93	Radiation Dose Reduction in Pediatric Body CT Using Iterative Reconstruction and a Novel Image-Based Denoising Method. <i>American Journal of Roentgenology</i> , 2015, 205, 1026-1037.	1.0	19
94	Technical Note: Measuring contrast and noise dependent spatial resolution of an iterative reconstruction method in CT using ensemble averaging. <i>Medical Physics</i> , 2015, 42, 2261-2267.	1.6	52
95	Radiation Dose Reduction in Dual-Energy CT: Does It Affect the Accuracy of Urinary Stone Characterization?. <i>American Journal of Roentgenology</i> , 2015, 205, W172-W176.	1.0	14
96	Dual- and Multi-Energy CT: Principles, Technical Approaches, and Clinical Applications. <i>Radiology</i> , 2015, 276, 637-653.	3.6	1,092
97	Degradation of CT Low-Contrast Spatial Resolution Due to the Use of Iterative Reconstruction and Reduced Dose Levels. <i>Radiology</i> , 2015, 276, 499-506.	3.6	116
98	Automatic CT simulation optimization for radiation therapy: A general strategy. <i>Medical Physics</i> , 2014, 41, 031913.	1.6	9
99	The individual N and C lobes of calmodulin tether to the Cav1.2 channel and rescue the channel activity from run down in ventricular myocytes of guinea pig heart. <i>FEBS Letters</i> , 2014, 588, 3855-3861.	1.3	14
100	Use of CT Dose Notification and Alert Values in Routine Clinical Practice. <i>Journal of the American College of Radiology</i> , 2014, 11, 450-455.	0.9	12
101	Prediction of human observer performance in a alternative forced choice low contrast detection task using channelized Hotelling observer: Impact of radiation dose and reconstruction algorithms. <i>Medical Physics</i> , 2013, 40, 041908.	1.6	117
102	Adaptive nonlocal means filtering based on local noise level for CT denoising. <i>Medical Physics</i> , 2013, 41, 011908.	1.6	201
103	Automatic Selection of Tube Potential for Radiation Dose Reduction in Vascular and Contrast-Enhanced Abdominopelvic CT. <i>American Journal of Roentgenology</i> , 2013, 201, W297-W306.	1.0	58
104	Development and Validation of a Practical Lower-Dose-Simulation Tool for Optimizing Computed Tomography Scan Protocols. <i>Journal of Computer Assisted Tomography</i> , 2012, 36, 477-487.	0.5	119
105	Dual-Energy CT Based Monochromatic Imaging. <i>American Journal of Roentgenology</i> , 2012, 199, S9-S15.	1.0	483
106	Virtual monochromatic imaging in dual source dual energy CT: Radiation dose and image quality. <i>Medical Physics</i> , 2011, 38, 6371-6379.	1.6	282
107	Automatic selection of tube potential for radiation dose reduction in CT: A general strategy. <i>Medical Physics</i> , 2010, 37, 234-243.	1.6	201
108	Dose and Image Quality Evaluation of a Dedicated Cone-Beam CT System for High-Contrast Neurologic Applications. <i>American Journal of Roentgenology</i> , 2010, 194, W193-W201.	1.0	47

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109	Image quality optimization and evaluation of linearly mixed images in dual-source, dual-energy CT. Medical Physics, 2009, 36, 1019-1024.	1.6	147
110	Radiation dose reduction in computed tomography: techniques and future perspective. Imaging in Medicine, 2009, 1, 65-84.	0.0	296
111	A rebinned backprojection-filtration algorithm for image reconstruction in helical cone-beam CT. Physics in Medicine and Biology, 2007, 52, 5497-5508.	1.6	8
112	A Rebinning-type Backprojection-Filtration Algorithm for Image Reconstruction in Helical Cone-beam CT. , 2006, , .		1