

Yang Lei

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

112 papers	1,754 citations	23 h-index	37 g-index
216 ext. papers	2,889 ext. citations	3.4 avg, IF	5.41 L-index

#	Paper	IF	Citations
112	Machine learning for tracking planned versus delivered dose in pancreas SBRT.. <i>Journal of Clinical Oncology</i> , 2022 , 40, 561-561	2.2	
111	Learning-based synthetic dual energy CT imaging from single energy CT for stopping power ratio calculation in proton radiation therapy. <i>British Journal of Radiology</i> , 2022 , 95, 20210644	3.4	4
110	Artificial intelligence in imaging of coronary artery disease: current applications and future perspective. <i>Chinese Journal of Academic Radiology</i> , 2022 , 5, 10-19	1	
109	Generative adversarial networks for medical image synthesis 2022 , 105-128		0
108	Prostate and dominant intraprostatic lesion segmentation on PET/CT using cascaded regional-net. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	1
107	Synthetic CT-aided multiorgan segmentation for CBCT-guided adaptive pancreatic radiotherapy. <i>Medical Physics</i> , 2021 , 48, 7063-7073	4.4	0
106	Deep learning-based motion tracking using ultrasound images. <i>Medical Physics</i> , 2021 , 48, 7747	4.4	2
105	Synthetic dual-energy CT for MRI-only based proton therapy treatment planning using label-GAN. <i>Physics in Medicine and Biology</i> , 2021 , 66, 065014	3.8	6
104	Male pelvic CT multi-organ segmentation using synthetic MRI-aided dual pyramid networks. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	3
103	Echocardiographic image multi-structure segmentation using Cardiac-SegNet. <i>Medical Physics</i> , 2021 , 48, 2426-2437	4.4	4
102	Automatic delineation of cardiac substructures using a region-based fully convolutional network. <i>Medical Physics</i> , 2021 , 48, 2867-2876	4.4	7
101	Deep Learning Architecture Design for Multi-Organ Segmentation 2021 , 81-112		0
100	Male pelvic multi-organ segmentation on transrectal ultrasound using anchor-free mask CNN. <i>Medical Physics</i> , 2021 , 48, 3055-3064	4.4	2
99	A review of deep learning based methods for medical image multi-organ segmentation. <i>Physica Medica</i> , 2021 , 85, 107-122	2.7	15
98	Artificial intelligence in tumor subregion analysis based on medical imaging: A review. <i>Journal of Applied Clinical Medical Physics</i> , 2021 , 22, 10-26	2.3	2
97	Self-supervised learning for accelerated 3D high-resolution ultrasound imaging. <i>Medical Physics</i> , 2021 , 48, 3916-3926	4.4	1
96	Learning-based dose prediction for pancreatic stereotactic body radiation therapy using dual pyramid adversarial network. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	3

95	Knowledge-based radiation treatment planning: A data-driven method survey. <i>Journal of Applied Clinical Medical Physics</i> , 2021 , 22, 16-44	2.3	4
94	Fully automated segmentation of brain tumor from multiparametric MRI using 3D context deep supervised U-Net. <i>Medical Physics</i> , 2021 , 48, 4365-4374	4.4	4
93	Biomechanically constrained non-rigid MR-TRUS prostate registration using deep learning based 3D point cloud matching. <i>Medical Image Analysis</i> , 2021 , 67, 101845	15.4	11
92	Deformable MR-CBCT prostate registration using biomechanically constrained deep learning networks. <i>Medical Physics</i> , 2021 , 48, 253-263	4.4	12
91	A review on medical imaging synthesis using deep learning and its clinical applications. <i>Journal of Applied Clinical Medical Physics</i> , 2021 , 22, 11-36	2.3	38
90	Automatic quantification of myocardium and pericardial fat from coronary computed tomography angiography: a multicenter study. <i>European Radiology</i> , 2021 , 31, 3826-3836	8	2
89	Breast tumor segmentation in 3D automatic breast ultrasound using Mask scoring R-CNN. <i>Medical Physics</i> , 2021 , 48, 204-214	4.4	16
88	MRI classification using semantic random forest with auto-context model. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021 , 11, 4753-4766	3.6	
87	Learning-Based Stopping Power Mapping on Dual-Energy CT for Proton Radiation Therapy. <i>International Journal of Particle Therapy</i> , 2021 , 7, 46-60	1.5	1
86	Head-and-neck organs-at-risk auto-delineation using dual pyramid networks for CBCT-guided adaptive radiotherapy. <i>Physics in Medicine and Biology</i> , 2021 , 66, 045021	3.8	8
85	Prostate and tumor segmentation on PET/CT using Dual Mask R-CNN 2021 ,		2
84	High through-plane resolution CT imaging with self-supervised deep learning. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	1
83	Automated delineation of head and neck organs at risk using synthetic MRI-aided mask scoring regional convolutional neural network. <i>Medical Physics</i> , 2021 , 48, 5862-5873	4.4	3
82	Lung tumor segmentation in 4D CT images using motion convolutional neural networks. <i>Medical Physics</i> , 2021 , 48, 7141-7153	4.4	0
81	Catheter position prediction using deep-learning-based multi-atlas registration for high-dose rate prostate brachytherapy. <i>Medical Physics</i> , 2021 , 48, 7261-7270	4.4	0
80	Automatic multi-catheter detection using deeply supervised convolutional neural network in MRI-guided HDR prostate brachytherapy. <i>Medical Physics</i> , 2020 , 47, 4115-4124	4.4	12
79	Automatic segmentation and quantification of epicardial adipose tissue from coronary computed tomography angiography. <i>Physics in Medicine and Biology</i> , 2020 , 65, 095012	3.8	7
78	Multi-needle Localization with Attention U-Net in US-guided HDR Prostate Brachytherapy. <i>Medical Physics</i> , 2020 , 47, 2735-2745	4.4	15

77	CBCT-based synthetic CT generation using deep-attention cycleGAN for pancreatic adaptive radiotherapy. <i>Medical Physics</i> , 2020 , 47, 2472-2483	4.4	36
76	Deep learning in medical image registration: a review. <i>Physics in Medicine and Biology</i> , 2020 , 65, 20TR01	3.8	102
75	Cone-beam CT-derived relative stopping power map generation via deep learning for proton radiotherapy. <i>Medical Physics</i> , 2020 , 47, 4416-4427	4.4	9
74	4D-CT deformable image registration using multiscale unsupervised deep learning. <i>Physics in Medicine and Biology</i> , 2020 , 65, 085003	3.8	22
73	Multi-Needle Detection in 3D Ultrasound Images Using Unsupervised Order-Graph Regularized Sparse Dictionary Learning. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 2302-2315	11.7	13
72	LungRegNet: An unsupervised deformable image registration method for 4D-CT lung. <i>Medical Physics</i> , 2020 , 47, 1763-1774	4.4	29
71	Label-driven magnetic resonance imaging (MRI)-transrectal ultrasound (TRUS) registration using weakly supervised learning for MRI-guided prostate radiotherapy. <i>Physics in Medicine and Biology</i> , 2020 , 65, 135002	3.8	16
70	Pelvic multi-organ segmentation on cone-beam CT for prostate adaptive radiotherapy. <i>Medical Physics</i> , 2020 , 47, 3415-3422	4.4	16
69	PET attenuation correction (AC) using non-AC PET-based synthetic CT 2020 ,		2
68	Synthetic CT-aided MRI-CT image registration for head and neck radiotherapy 2020 ,		2
67	Deep learning-based breast tumor detection and segmentation in 3D ultrasound image 2020 ,		3
66	Low dose PET imaging with CT-aided cycle-consistent adversarial networks 2020 ,		2
65	Deep attentional GAN-based high-resolution ultrasound imaging 2020 ,		4
64	Super-resolution magnetic resonance imaging reconstruction using deep attention networks 2020 ,		3
63	Organ-at-Risk (OAR) segmentation in head and neck CT using U-RCNN 2020 ,		3
62	Multiparametric MRI-guided high-dose-rate prostate brachytherapy with focal dose boost to dominant intraprostatic lesions 2020 ,		2
61	Automated coronary artery segmentation in Coronary Computed Tomography Angiography (CCTA) using deep learning neural networks 2020 ,		3
60	Automatic epicardial fat segmentation in cardiac CT imaging using 3D deep attention U-Net 2020 ,		5

59	Automatic multi-needle localization in ultrasound images using large margin mask RCNN for ultrasound-guided prostate brachytherapy. <i>Physics in Medicine and Biology</i> , 2020 , 65, 205003	3.8	5
58	Intensity non-uniformity correction in MR imaging using residual cycle generative adversarial network. <i>Physics in Medicine and Biology</i> , 2020 , 65, 215025	3.8	8
57	Deep learning-based real-time volumetric imaging for lung stereotactic body radiation therapy: a proof of concept study. <i>Physics in Medicine and Biology</i> , 2020 , 65, 235003	3.8	5
56	High quality proton portal imaging using deep learning for proton radiation therapy: a phantom study. <i>Biomedical Physics and Engineering Express</i> , 2020 , 6, 035029	1.5	3
55	Deep learning-based attenuation correction in the absence of structural information for whole-body positron emission tomography imaging. <i>Physics in Medicine and Biology</i> , 2020 , 65, 055011	3.8	49
54	Male pelvic multi-organ segmentation aided by CBCT-based synthetic MRI. <i>Physics in Medicine and Biology</i> , 2020 , 65, 035013	3.8	32
53	CT prostate segmentation based on synthetic MRI-aided deep attention fully convolution network. <i>Medical Physics</i> , 2020 , 47, 530-540	4.4	34
52	Multimodal MRI synthesis using unified generative adversarial networks. <i>Medical Physics</i> , 2020 , 47, 6343-6354	4.4	14
51	Brain tumor segmentation using 3D Mask R-CNN for dynamic susceptibility contrast enhanced perfusion imaging. <i>Physics in Medicine and Biology</i> , 2020 , 65, 185009	3.8	11
50	Automated left ventricular myocardium segmentation using 3D deeply supervised attention U-net for coronary computed tomography angiography; CT myocardium segmentation. <i>Medical Physics</i> , 2020 , 47, 1775-1785	4.4	11
49	Head and neck multi-organ auto-segmentation on CT images aided by synthetic MRI. <i>Medical Physics</i> , 2020 , 47, 4294-4302	4.4	10
48	CT-based multi-organ segmentation using a 3D self-attention U-net network for pancreatic radiotherapy. <i>Medical Physics</i> , 2020 , 47, 4316-4324	4.4	16
47	Machine learning in quantitative PET: A review of attenuation correction and low-count image reconstruction methods. <i>Physica Medica</i> , 2020 , 76, 294-306	2.7	26
46	A learning-based automatic segmentation and quantification method on left ventricle in gated myocardial perfusion SPECT imaging: A feasibility study. <i>Journal of Nuclear Cardiology</i> , 2020 , 27, 976-987	2.1	46
45	Thyroid gland delineation in noncontrast-enhanced CT using deep convolutional neural networks. <i>Physics in Medicine and Biology</i> , 2020 ,	3.8	1
44	Evaluation of a deep learning-based pelvic synthetic CT generation technique for MRI-based prostate proton treatment planning. <i>Physics in Medicine and Biology</i> , 2019 , 64, 205022	3.8	23
43	Synthetic CT generation from non-attenuation corrected PET images for whole-body PET imaging. <i>Physics in Medicine and Biology</i> , 2019 , 64, 215016	3.8	34
42	Optimal virtual monoenergetic image in "TwinBeam" dual-energy CT for organs-at-risk delineation based on contrast-noise-ratio in head-and-neck radiotherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2019 , 20, 121-128	2.3	15

41	MRI-only based synthetic CT generation using dense cycle consistent generative adversarial networks. <i>Medical Physics</i> , 2019 , 46, 3565-3581	4.4	95
40	Paired cycle-GAN-based image correction for quantitative cone-beam computed tomography. <i>Medical Physics</i> , 2019 , 46, 3998-4009	4.4	74
39	MRI-based treatment planning for proton radiotherapy: dosimetric validation of a deep learning-based liver synthetic CT generation method. <i>Physics in Medicine and Biology</i> , 2019 , 64, 145015	3.8	37
38	Learning-based automatic segmentation of arteriovenous malformations on contrast CT images in brain stereotactic radiosurgery. <i>Medical Physics</i> , 2019 , 46, 3133-3141	4.4	23
37	Ultrasound prostate segmentation based on multidirectional deeply supervised V-Net. <i>Medical Physics</i> , 2019 , 46, 3194-3206	4.4	52
36	Dosimetric study on learning-based cone-beam CT correction in adaptive radiation therapy. <i>Medical Dosimetry</i> , 2019 , 44, e71-e79	1.3	15
35	Dose evaluation of MRI-based synthetic CT generated using a machine learning method for prostate cancer radiotherapy. <i>Medical Dosimetry</i> , 2019 , 44, e64-e70	1.3	21
34	MRI-based synthetic CT generation using semantic random forest with iterative refinement. <i>Physics in Medicine and Biology</i> , 2019 , 64, 085001	3.8	19
33	Multiparametric MRI-guided dose boost to dominant intraprostatic lesions in CT-based High-dose-rate prostate brachytherapy. <i>British Journal of Radiology</i> , 2019 , 92, 20190089	3.4	13
32	Deeply supervised 3D fully convolutional networks with group dilated convolution for automatic MRI prostate segmentation. <i>Medical Physics</i> , 2019 , 46, 1707-1718	4.4	90
31	Automatic multiorgan segmentation in thorax CT images using U-net-GAN. <i>Medical Physics</i> , 2019 , 46, 2157-2168	4.4	128
30	MRI-based treatment planning for brain stereotactic radiosurgery: Dosimetric validation of a learning-based pseudo-CT generation method. <i>Medical Dosimetry</i> , 2019 , 44, 199-204	1.3	34
29	MRI-based treatment planning for liver stereotactic body radiotherapy: validation of a deep learning-based synthetic CT generation method. <i>British Journal of Radiology</i> , 2019 , 92, 20190067	3.4	31
28	Machine-learning based classification of glioblastoma using delta-radiomic features derived from dynamic susceptibility contrast enhanced magnetic resonance images: Introduction. <i>Quantitative Imaging in Medicine and Surgery</i> , 2019 , 9, 1201-1213	3.6	18
27	Whole-body PET estimation from low count statistics using cycle-consistent generative adversarial networks. <i>Physics in Medicine and Biology</i> , 2019 , 64, 215017	3.8	35
26	Synthetic MRI-aided multi-organ segmentation on male pelvic CT using cycle consistent deep attention network. <i>Radiotherapy and Oncology</i> , 2019 , 141, 192-199	5.3	55
25	Deep learning-based image quality improvement for low-dose computed tomography simulation in radiation therapy. <i>Journal of Medical Imaging</i> , 2019 , 6, 043504	2.6	12
24	Image quality improvement in cone-beam CT using deep learning 2019 ,		5

23	Automated prostate segmentation of volumetric CT images using 3D deeply supervised dilated FCN 2019 ,		9
22	MRI-based synthetic CT generation using deep convolutional neural network 2019 ,		4
21	Automatic MRI prostate segmentation using 3D deeply supervised FCN with concatenated atrous convolution 2019 ,		4
20	Learning-based automatic segmentation on arteriovenous malformations from contrast-enhanced CT images 2019 ,		1
19	Ultrasound prostate segmentation based on 3D V-Net with deep supervision 2019 ,		5
18	Machine-learning-based classification of Glioblastoma using MRI-based radiomic features 2019 ,		1
17	MRI-Based Proton Treatment Planning for Base of Skull Tumors. <i>International Journal of Particle Therapy</i> , 2019 , 6, 12-25	1.5	11
16	CBCT-Based Synthetic MRI Generation for CBCT-Guided Adaptive Radiotherapy. <i>Lecture Notes in Computer Science</i> , 2019 , 154-161	0.9	2
15	4D-CT Deformable Image Registration Using an Unsupervised Deep Convolutional Neural Network. <i>Lecture Notes in Computer Science</i> , 2019 , 26-33	0.9	7
14	Learning-based CBCT correction using alternating random forest based on auto-context model. <i>Medical Physics</i> , 2019 , 46, 601-618	4.4	25
13	MRI-based attenuation correction for brain PET/MRI based on anatomic signature and machine learning. <i>Physics in Medicine and Biology</i> , 2019 , 64, 025001	3.8	23
12	Magnetic resonance imaging-based pseudo computed tomography using anatomic signature and joint dictionary learning. <i>Journal of Medical Imaging</i> , 2018 , 5, 034001	2.6	15
11	MRI-based pseudo CT synthesis using anatomical signature and alternating random forest with iterative refinement model. <i>Journal of Medical Imaging</i> , 2018 , 5, 043504	2.6	18
10	Improving Image Quality of Cone-Beam CT Using Alternating Regression Forest. <i>Proceedings of SPIE</i> , 2018 , 10573,	1.7	6
9	High-resolution CT Image Retrieval Using Sparse Convolutional Neural Network. <i>Proceedings of SPIE</i> , 2018 , 10573,	1.7	2
8	A Denoising Algorithm for CT Image Using Low-rank Sparse Coding. <i>Proceedings of SPIE</i> , 2018 , 10574,	1.7	3
7	Pseudo CT Estimation from MRI Using Patch-based Random Forest. <i>Proceedings of SPIE</i> , 2017 , 10133,	1.7	18
6	A Learning-Based Approach to Derive Electron Density from Anatomical MRI for Radiation Therapy Treatment Planning. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017 , 99, S173-S174	4	11

- 5 A Learning-Based Method to Improve Cone Beam CT Image Quality for Adaptive Radiation Therapy. *International Journal of Radiation Oncology Biology Physics*, **2017**, 99, S224 4 4
- 4 Nonlocally centralized simultaneous sparse coding. *Transactions of Tianjin University*, **2016**, 22, 403-410 2.9
- 3 Non-Convex Low-Rank Approximation for Image Denoising and Deblurring. *IEICE Transactions on Information and Systems*, **2016**, E99.D, 1364-1374 0.6 0
- 2 An improved IRLS algorithm for sparse recovery with intra-block correlation. *Optik*, **2015**, 126, 850-854 2.5 2
- 1 Two-stage sparse representation-based face recognition with reconstructed images. *Journal of Electronic Imaging*, **2014**, 23, 053021 0.7