Tian Liu

List of Publications by Citations

163 papers	2,806 citations	28 h-index	45 g-index
192 ext. papers	4,151 ext. citations	3.3 avg, IF	5.57 L-index

#	Paper	IF	Citations
163	Ultrasonic spectrum analysis for tissue assays and therapy evaluation. *International Journal of Imaging Systems and Technology*, **1997**, 8, 3-10	2.5	141
162	Automatic multiorgan segmentation in thorax CT images using U-net-GAN. *Medical Physics*, **2019**, 46, 2157-2168	4.4	128
161	Typing of prostate tissue by ultrasonic spectrum analysis. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **1996**, 43, 609-619	3.2	125
160	Deep learning in medical image registration: a review. *Physics in Medicine and Biology*, **2020**, 65, 20TR01	3.8	102
159	MRI-only based synthetic CT generation using dense cycle consistent generative adversarial networks. *Medical Physics*, **2019**, 46, 3565-3581	4.4	95
158	Ultrasound GLCM texture analysis of radiation-induced parotid-gland injury in head-and-neck cancer radiotherapy: an in vivo study of late toxicity. *Medical Physics*, **2012**, 39, 5732-9	4.4	93
157	Deeply supervised 3D fully convolutional networks with group dilated convolution for automatic MRI prostate segmentation. *Medical Physics*, **2019**, 46, 1707-1718	4.4	90
156	Paired cycle-GAN-based image correction for quantitative cone-beam computed tomography. *Medical Physics*, **2019**, 46, 3998-4009	4.4	74
155	Ultrasonic spectral-parameter imaging of the prostate. *International Journal of Imaging Systems and Technology*, **1997**, 8, 11-25	2.5	73
154	Automated segmentation of the parotid gland based on atlas registration and machine learning: a longitudinal MRI study in head-and-neck radiation therapy. *International Journal of Radiation Oncology Biology Physics*, **2014**, 90, 1225-33	4	67
153	Synthetic MRI-aided multi-organ segmentation on male pelvic CT using cycle consistent deep attention network. *Radiotherapy and Oncology*, **2019**, 141, 192-199	5.3	55
152	Ultrasound prostate segmentation based on multidirectional deeply supervised V-Net. *Medical Physics*, **2019**, 46, 3194-3206	4.4	52
151	Deep learning-based attenuation correction in the absence of structural information for whole-body positron emission tomography imaging. *Physics in Medicine and Biology*, **2020**, 65, 055011	3.8	49
150	A learning-based automatic segmentation and quantification method on left ventricle in gated myocardial perfusion SPECT imaging: A feasibility study. *Journal of Nuclear Cardiology*, **2020**, 27, 976-987	2.1	46
149	Evaluating early response of cervical cancer under concurrent chemo-radiotherapy by intravoxel incoherent motion MR imaging. *BMC Cancer*, **2016**, 16, 79	4.8	41
148	Spectrum-analysis and neural networks for imaging to detect and treat prostate cancer. *Ultrasonic Imaging*, **2001**, 23, 135-46	1.9	40
147	A review on medical imaging synthesis using deep learning and its clinical applications. *Journal of Applied Clinical Medical Physics*, **2021**, 22, 11-36	2.3	38

146	MRI-based treatment planning for proton radiotherapy: dosimetric validation of a deep learning-based liver synthetic CT generation method. *Physics in Medicine and Biology*, **2019**, 64, 145015	3.8	37
145	CBCT-based synthetic CT generation using deep-attention cycleGAN for pancreatic adaptive radiotherapy. *Medical Physics*, **2020**, 47, 2472-2483	4.4	36
144	A Single-institution Experience with Open Irreversible Electroporation for Locally Advanced Pancreatic Carcinoma. *Chinese Medical Journal*, **2016**, 129, 2920-2925	2.9	35
143	Whole-body PET estimation from low count statistics using cycle-consistent generative adversarial networks. *Physics in Medicine and Biology*, **2019**, 64, 215017	3.8	35
142	Synthetic CT generation from non-attenuation corrected PET images for whole-body PET imaging. *Physics in Medicine and Biology*, **2019**, 64, 215016	3.8	34
141	MRI-based treatment planning for brain stereotactic radiosurgery: Dosimetric validation of a learning-based pseudo-CT generation method. *Medical Dosimetry*, **2019**, 44, 199-204	1.3	34
140	CT prostate segmentation based on synthetic MRI-aided deep attention fully convolution network. *Medical Physics*, **2020**, 47, 530-540	4.4	34
139	Male pelvic multi-organ segmentation aided by CBCT-based synthetic MRI. *Physics in Medicine and Biology*, **2020**, 65, 035013	3.8	32
138	MRI-based treatment planning for liver stereotactic body radiotherapy: validation of a deep learning-based synthetic CT generation method. *British Journal of Radiology*, **2019**, 92, 20190067	3.4	31
137	LungRegNet: An unsupervised deformable image registration method for 4D-CT lung. *Medical Physics*, **2020**, 47, 1763-1774	4.4	29
136	Assessment of histological differentiation in gastric cancers using whole-volume histogram analysis of apparent diffusion coefficient maps. *Journal of Magnetic Resonance Imaging*, **2017**, 45, 440-449	5.6	29
135	Preoperative apparent diffusion coefficient value of gastric cancer by diffusion-weighted imaging: Correlations with postoperative TNM staging. *Journal of Magnetic Resonance Imaging*, **2015**, 42, 837-43	5.6	26
134	Machine learning in quantitative PET: A review of attenuation correction and low-count image reconstruction methods. *Physica Medica*, **2020**, 76, 294-306	2.7	26
133	Learning-based CBCT correction using alternating random forest based on auto-context model. *Medical Physics*, **2019**, 46, 601-618	4.4	25
132	Quantitative ultrasonic evaluation of radiation-induced late tissue toxicity: pilot study of breast cancer radiotherapy. *International Journal of Radiation Oncology Biology Physics*, **2010**, 78, 811-20	4	24
131	Evaluation of a deep learning-based pelvic synthetic CT generation technique for MRI-based prostate proton treatment planning. *Physics in Medicine and Biology*, **2019**, 64, 205022	3.8	23
130	Learning-based automatic segmentation of arteriovenous malformations on contrast CT images in brain stereotactic radiosurgery. *Medical Physics*, **2019**, 46, 3133-3141	4.4	23
129	Ultrasonic tissue characterization using 2-D spectrum analysis and its application in ocular tumor diagnosis. *Medical Physics*, **2004**, 31, 1032-9	4.4	23

128	MRI-based attenuation correction for brain PET/MRI based on anatomic signature and machine learning. *Physics in Medicine and Biology*, **2019**, 64, 025001	3.8	23
127	Intestinal microbiota predicts lung cancer patients at risk of immune-related diarrhea. *Immunotherapy*, **2019**, 11, 385-396	3.8	22
126	4D-CT deformable image registration using multiscale unsupervised deep learning. *Physics in Medicine and Biology*, **2020**, 65, 085003	3.8	22
125	Apparent diffusion coefficient value of gastric cancer by diffusion-weighted imaging: correlations with the histological differentiation and Lauren classification. *European Journal of Radiology*, **2014**, 83, 2122-2128	4.7	22
124	Dose evaluation of MRI-based synthetic CT generated using a machine learning method for prostate cancer radiotherapy. *Medical Dosimetry*, **2019**, 44, e64-e70	1.3	21
123	Automated skin segmentation in ultrasonic evaluation of skin toxicity in breast cancer radiotherapy. *Ultrasound in Medicine and Biology*, **2013**, 39, 2166-75	3.5	21
122	A prospective study of quality of life in breast cancer patients undergoing radiation therapy. *Advances in Radiation Oncology*, **2016**, 1, 10-16	3.3	21
121	MRI-based synthetic CT generation using semantic random forest with iterative refinement. *Physics in Medicine and Biology*, **2019**, 64, 085001	3.8	19
120	Pseudo CT Estimation from MRI Using Patch-based Random Forest. *Proceedings of SPIE*, **2017**, 10133,	1.7	18
119	Machine-learning based classification of glioblastoma using delta-radiomic features derived from dynamic susceptibility contrast enhanced magnetic resonance images: Introduction. *Quantitative Imaging in Medicine and Surgery*, **2019**, 9, 1201-1213	3.6	18
118	MRI-based pseudo CT synthesis using anatomical signature and alternating random forest with iterative refinement model. *Journal of Medical Imaging*, **2018**, 5, 043504	2.6	18
117	Early evaluation of irradiated parotid glands with intravoxel incoherent motion MR imaging: correlation with dynamic contrast-enhanced MR imaging. *BMC Cancer*, **2016**, 16, 865	4.8	17
116	Label-driven magnetic resonance imaging (MRI)-transrectal ultrasound (TRUS) registration using weakly supervised learning for MRI-guided prostate radiotherapy. *Physics in Medicine and Biology*, **2020**, 65, 135002	3.8	16
115	Pelvic multi-organ segmentation on cone-beam CT for prostate adaptive radiotherapy. *Medical Physics*, **2020**, 47, 3415-3422	4.4	16
114	Correlation between apparent diffusion coefficients and HER2 status in gastric cancers: pilot study. *BMC Cancer*, **2015**, 15, 749	4.8	16
113	CT-based multi-organ segmentation using a 3D self-attention U-net network for pancreatic radiotherapy. *Medical Physics*, **2020**, 47, 4316-4324	4.4	16
112	Breast tumor segmentation in 3D automatic breast ultrasound using Mask scoring R-CNN. *Medical Physics*, **2021**, 48, 204-214	4.4	16
111	Optimal virtual monoenergetic image in "TwinBeam" dual-energy CT for organs-at-risk delineation based on contrast-noise-ratio in head-and-neck radiotherapy. *Journal of Applied Clinical Medical Physics*, **2019**, 20, 121-128	2.3	15

110	Dosimetric study on learning-based cone-beam CT correction in adaptive radiation therapy. *Medical Dosimetry*, **2019**, 44, e71-e79	1.3	15
109	Multi-needle Localization with Attention U-Net in US-guided HDR Prostate Brachytherapy. *Medical Physics*, **2020**, 47, 2735-2745	4.4	15
108	A standardized commissioning framework of Monte Carlo dose calculation algorithms for proton pencil beam scanning treatment planning systems. *Medical Physics*, **2020**, 47, 1545-1557	4.4	15
107	Prostate CT segmentation method based on nonrigid registration in ultrasound-guided CT-based HDR prostate brachytherapy. *Medical Physics*, **2014**, 41, 111915	4.4	15
106	Ultrasonic Nakagami-parameter characterization of parotid-gland injury following head-and-neck radiotherapy: a feasibility study of late toxicity. *Medical Physics*, **2014**, 41, 022903	4.4	15
105	Reliability of quantitative ultrasonic assessment of normal-tissue toxicity in breast cancer radiotherapy. *International Journal of Radiation Oncology Biology Physics*, **2012**, 82, 724-31	4	15
104	Ultrasound histogram assessment of parotid gland injury following head-and-neck radiotherapy: a feasibility study. *Ultrasound in Medicine and Biology*, **2012**, 38, 1514-21	3.5	15
103	Magnetic resonance imaging-based pseudo computed tomography using anatomic signature and joint dictionary learning. *Journal of Medical Imaging*, **2018**, 5, 034001	2.6	15
102	A review of deep learning based methods for medical image multi-organ segmentation. *Physica Medica*, **2021**, 85, 107-122	2.7	15
101	Quantitative Ultrasonic Nakagami Imaging of Neck Fibrosis After Head and Neck Radiation Therapy. *International Journal of Radiation Oncology Biology Physics*, **2015**, 92, 407-14	4	14
100	Ultrasonic tissue characterization via 2-D spectrum analysis: theory and in vitro measurements. *Medical Physics*, **2007**, 34, 1037-46	4.4	14
99	Ultrasonic spectrum-analysis and neural-network classification as a basis for ultrasonic imaging to target brachytherapy of prostate cancer. *Brachytherapy*, **2002**, 1, 48-53	2.4	14
98	Multimodal MRI synthesis using unified generative adversarial networks. *Medical Physics*, **2020**, 47, 6343-6354	4.4	14
97	Multiparametric MRI-guided dose boost to dominant intraprostatic lesions in CT-based High-dose-rate prostate brachytherapy. *British Journal of Radiology*, **2019**, 92, 20190089	3.4	13
96	Multi-Needle Detection in 3D Ultrasound Images Using Unsupervised Order-Graph Regularized Sparse Dictionary Learning. *IEEE Transactions on Medical Imaging*, **2020**, 39, 2302-2315	11.7	13
95	Automatic multi-catheter detection using deeply supervised convolutional neural network in MRI-guided HDR prostate brachytherapy. *Medical Physics*, **2020**, 47, 4115-4124	4.4	12
94	Deep learning-based image quality improvement for low-dose computed tomography simulation in radiation therapy. *Journal of Medical Imaging*, **2019**, 6, 043504	2.6	12
93	Deformable MR-CBCT prostate registration using biomechanically constrained deep learning networks. *Medical Physics*, **2021**, 48, 253-263	4.4	12

92	Implementation and validation of an ultrasonic tissue characterization technique for quantitative assessment of normal-tissue toxicity in radiation therapy. *Medical Physics*, **2009**, 36, 1643-50	4.4	11
91	MRI-Based Proton Treatment Planning for Base of Skull Tumors. *International Journal of Particle Therapy*, **2019**, 6, 12-25	1.5	11
90	Simultaneous dose and dose rate optimization (SDDRO) for FLASH proton therapy. *Medical Physics*, **2020**, 47, 6388-6395	4.4	11
89	Brain tumor segmentation using 3D Mask R-CNN for dynamic susceptibility contrast enhanced perfusion imaging. *Physics in Medicine and Biology*, **2020**, 65, 185009	3.8	11
88	Automated left ventricular myocardium segmentation using 3D deeply supervised attention U-net for coronary computed tomography angiography; CT myocardium segmentation. *Medical Physics*, **2020**, 47, 1775-1785	4.4	11
87	Biomechanically constrained non-rigid MR-TRUS prostate registration using deep learning based 3D point cloud matching. *Medical Image Analysis*, **2021**, 67, 101845	15.4	11
86	Diagnostic accuracy of ultrasonic histogram features to evaluate radiation toxicity of the parotid glands: a clinical study of xerostomia following head-and-neck cancer radiotherapy. *Academic Radiology*, **2014**, 21, 1304-13	4.3	10
85	Head and neck multi-organ auto-segmentation on CT images aided by synthetic MRI. *Medical Physics*, **2020**, 47, 4294-4302	4.4	10
84	3D Transrectal Ultrasound (TRUS) Prostate Segmentation Based on Optimal Feature Learning Framework. *Proceedings of SPIE*, **2016**, 9784,	1.7	10
83	Cone-beam CT-derived relative stopping power map generation via deep learning for proton radiotherapy. *Medical Physics*, **2020**, 47, 4416-4427	4.4	9
82	Automated prostate segmentation of volumetric CT images using 3D deeply supervised dilated FCN **2019**,		9
81	A preliminary study on a multiresolution-level inverse planning approach for Gamma Knife radiosurgery. *Medical Physics*, **2020**, 47, 1523-1532	4.4	8
80	A feasibility study of novel ultrasonic tissue characterization for prostate-cancer diagnosis: 2D spectrum analysis of in vivo data with histology as gold standard. *Medical Physics*, **2009**, 36, 3504-11	4.4	8
79	Intensity non-uniformity correction in MR imaging using residual cycle generative adversarial network. *Physics in Medicine and Biology*, **2020**, 65, 215025	3.8	8
78	Head-and-neck organs-at-risk auto-delineation using dual pyramid networks for CBCT-guided adaptive radiotherapy. *Physics in Medicine and Biology*, **2021**, 66, 045021	3.8	8
77	Automatic segmentation and quantification of epicardial adipose tissue from coronary computed tomography angiography. *Physics in Medicine and Biology*, **2020**, 65, 095012	3.8	7
76	Ultrasound 2D Strain Estimator Based on Image Registration for Ultrasound Elastography. *Proceedings of SPIE*, **2014**, 9040,	1.7	7
75	Safety of radiotherapy with concurrent and adjuvant MEDI4736 (durvalumab) in patients with locoregionally advanced head and neck cancer with a contraindication to cisplatin: NRG-HN004.. *Journal of Clinical Oncology*, **2019**, 37, 6065-6065	2.2	7

74	4D-CT Deformable Image Registration Using an Unsupervised Deep Convolutional Neural Network. *Lecture Notes in Computer Science*, **2019**, 26-33	0.9	7
73	A planning study of focal dose escalations to multiparametric MRI-defined dominant intraprostatic lesions in prostate proton radiation therapy. *British Journal of Radiology*, **2020**, 93, 20190845	3.4	7
72	Automatic delineation of cardiac substructures using a region-based fully convolutional network. *Medical Physics*, **2021**, 48, 2867-2876	4.4	7
71	Improved prostate delineation in prostate HDR brachytherapy with TRUS-CT deformable registration technology: A pilot study with MRI validation. *Journal of Applied Clinical Medical Physics* , **2017**, 18, 202-210	2.3	7
70	Strain elastography imaging for early detection and prediction of tumor response to concurrent chemo-radiotherapy in locally advanced cervical cancer: feasibility study. *BMC Cancer*, **2017**, 17, 427	4.8	6
69	How does performance of ultrasound tissue typing affect design of prostate IMRT dose-painting protocols?. *International Journal of Radiation Oncology Biology Physics*, **2007**, 67, 362-8	4	6
68	Improving Image Quality of Cone-Beam CT Using Alternating Regression Forest. *Proceedings of SPIE* , **2018**, 10573,	1.7	6
67	Synthetic dual-energy CT for MRI-only based proton therapy treatment planning using label-GAN. *Physics in Medicine and Biology*, **2021**, 66, 065014	3.8	6
66	Reproducibility in contouring the neurovascular bundle for prostate cancer radiation therapy. *Practical Radiation Oncology*, **2018**, 8, e125-e131	2.8	6
65	Minimum MU optimization (MMO): an inverse optimization approach for the PBS minimum MU constraint. *Physics in Medicine and Biology*, **2019**, 64, 125022	3.8	5
64	A MR-TRUS Registration Method for Ultrasound-Guided Prostate Interventions. *Proceedings of SPIE*, **2015**, 9415,	1.7	5
63	The Impact of Axillary Lymph Node Surgery on Breast Skin Thickening During and After Radiation Therapy for Breast Cancer. *International Journal of Radiation Oncology Biology Physics*, **2016**, 95, 590-6	4	5
62	Minimum-MU and sparse-energy-layer (MMSEL) constrained inverse optimization method for efficiently deliverable PBS plans. *Physics in Medicine and Biology*, **2019**, 64, 205001	3.8	5
61	Multi-atlas-based Segmentation of the Parotid Glands of MR Images in Patients Following Head-and-neck Cancer Radiotherapy. *Proceedings of SPIE*, **2013**, 8670,	1.7	5
60	Image quality improvement in cone-beam CT using deep learning **2019**,		5
59	Ultrasound prostate segmentation based on 3D V-Net with deep supervision **2019**,		5
58	Automatic multi-needle localization in ultrasound images using large margin mask RCNN for ultrasound-guided prostate brachytherapy. *Physics in Medicine and Biology*, **2020**, 65, 205003	3.8	5
57	Deep learning-based real-time volumetric imaging for lung stereotactic body radiation therapy: a proof of concept study. *Physics in Medicine and Biology*, **2020**, 65, 235003	3.8	5

56	A Patch-based CBCT Scatter Artifact Correction Using Prior CT. *Proceedings of SPIE*, **2017**, 10132,	1.7	4
55	A New CT Prostate Segmentation for CT-Based HDR Brachytherapy. *Proceedings of SPIE*, **2014**, 9036, 90362K	1.7	4
54	MRI-based synthetic CT generation using deep convolutional neural network **2019**,		4
53	Automatic MRI prostate segmentation using 3D deeply supervised FCN with concatenated atrous convolution **2019**,		4
52	Learning-based synthetic dual energy CT imaging from single energy CT for stopping power ratio calculation in proton radiation therapy. *British Journal of Radiology*, **2022**, 95, 20210644	3.4	4
51	Technical Note: Plan-delivery-time constrained inverse optimization method with minimum-MU-per-energy-layer (MMPEL) for efficient pencil beam scanning proton therapy. *Medical Physics*, **2020**, 47, 3892-3897	4.4	4
50	Echocardiographic image multi-structure segmentation using Cardiac-SegNet. *Medical Physics*, **2021** , 48, 2426-2437	4.4	4
49	Knowledge-based radiation treatment planning: A data-driven method survey. *Journal of Applied Clinical Medical Physics*, **2021**, 22, 16-44	2.3	4
48	Fully automated segmentation of brain tumor from multiparametric MRI using 3D context deep supervised U-Net. *Medical Physics*, **2021**, 48, 4365-4374	4.4	4
47	Ultrasound 2D strain measurement for arm lymphedema using deformable registration: A feasibility study. *PLoS ONE*, **2017**, 12, e0181250	3.7	3
46	Dynamic Contrast-Enhanced CT Characterization of Xp11.2 Translocation/TFE3 Gene Fusions versus Papillary Renal Cell Carcinomas. *BioMed Research International*, **2015**, 2015, 298679	3	3
45	A Novel Ultrasound-CT Deformable Registration Process Improves Physician Contouring during CT-based HDR Brachytherapy for Prostate Cancer. *Brachytherapy*, **2014**, 13, S67-S68	2.4	3
44	Deep learning-based breast tumor detection and segmentation in 3D ultrasound image **2020**,		3
43	A Denoising Algorithm for CT Image Using Low-rank Sparse Coding. *Proceedings of SPIE*, **2018**, 10574,	1.7	3
42	High quality proton portal imaging using deep learning for proton radiation therapy: a phantom study. *Biomedical Physics and Engineering Express*, **2020**, 6, 035029	1.5	3
41	Impact of Regional Nodal Irradiation and Hypofractionated Whole-Breast Radiation on Long-Term Breast Retraction and Poor Cosmetic Outcome in Breast Cancer Survivors. *Clinical Breast Cancer*, **2020**, 20, e75-e81	3	3
40	Male pelvic CT multi-organ segmentation using synthetic MRI-aided dual pyramid networks. *Physics in Medicine and Biology*, **2021**, 66,	3.8	3
39	Learning-based dose prediction for pancreatic stereotactic body radiation therapy using dual pyramid adversarial network. *Physics in Medicine and Biology*, **2021**, 66,	3.8	3

38	Automated delineation of head and neck organs at risk using synthetic MRI-aided mask scoring regional convolutional neural network. *Medical Physics*, **2021**, 48, 5862-5873	4.4	3
37	Review of Machine Learning in Lung Ultrasound in COVID-19 Pandemic.. *Journal of Imaging*, **2022**, 8,	3.1	3
36	Analytical Low-Dose CBCT Reconstruction Using Non-local Total Variation Regularization for Image Guided Radiation Therapy. *Frontiers in Oncology*, **2020**, 10, 242	5.3	2
35	High-resolution CT Image Retrieval Using Sparse Convolutional Neural Network. *Proceedings of SPIE* , **2018**, 10573,	1.7	2
34	Deep learning-based motion tracking using ultrasound images. *Medical Physics*, **2021**, 48, 7747	4.4	2
33	CBCT-Based Synthetic MRI Generation for CBCT-Guided Adaptive Radiotherapy. *Lecture Notes in Computer Science*, **2019**, 154-161	0.9	2
32	Instruments for determining clinically relevant fatigue in breast cancer patients during radiotherapy. *Breast Cancer*, **2020**, 27, 197-205	3.4	2
31	Male pelvic multi-organ segmentation on transrectal ultrasound using anchor-free mask CNN. *Medical Physics*, **2021**, 48, 3055-3064	4.4	2
30	Artificial intelligence in tumor subregion analysis based on medical imaging: A review. *Journal of Applied Clinical Medical Physics*, **2021**, 22, 10-26	2.3	2
29	Automatic quantification of myocardium and pericardial fat from coronary computed tomography angiography: a multicenter study. *European Radiology*, **2021**, 31, 3826-3836	8	2
28	A MRI-CT prostate registration using sparse representation technique **2016**,		1
27	A 3D Neurovascular Bundles Segmentation Method based on MR-TRUS Deformable Registration. *Proceedings of SPIE*, **2015**, 9413,	1.7	1
26	3D Ultrasound Nakagami Imaging for Radiation-Induced Vaginal Fibrosis. *Proceedings of SPIE*, **2014**, 9040,	1.7	1
25	Learning-based automatic segmentation on arteriovenous malformations from contract-enhanced CT images **2019**,		1
24	Intestinal microbiota to predict risk for immune-related diarrhea in patients with lung cancer patients.. *Journal of Clinical Oncology*, **2018**, 36, 132-132	2.2	1
23	Prostate and dominant intraprostatic lesion segmentation on PET/CT using cascaded regional-net. *Physics in Medicine and Biology*, **2021**, 66,	3.8	1
22	Breast cancer patient reported outcomes, depression, and objective measures of breast cosmesis.. *Journal of Clinical Oncology*, **2020**, 38, 569-569	2.2	1
21	Self-supervised learning for accelerated 3D high-resolution ultrasound imaging. *Medical Physics*, **2021**, 48, 3916-3926	4.4	1

20	Patch-Based Label Fusion for Automatic Multi-Atlas-Based Prostate Segmentation in MR Images. *Proceedings of SPIE*, **2016**, 9786,	1.7	1
19	Learning-Based Stopping Power Mapping on Dual-Energy CT for Proton Radiation Therapy. *International Journal of Particle Therapy*, **2021**, 7, 46-60	1.5	1
18	Thyroid gland delineation in noncontrast-enhanced CT using deep convolutional neural networks. *Physics in Medicine and Biology*, **2020**,	3.8	1
17	High through-plane resolution CT imaging with self-supervised deep learning. *Physics in Medicine and Biology*, **2021**, 66,	3.8	1
16	Artificial Intelligence in Quantitative Ultrasound Imaging: A Survey. *Journal of Ultrasound in Medicine*, **2021**,	2.9	1
15	Artificial Intelligence in Radiation Therapy. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2021**, 1-1	4.2	1
14	Full axillary lymph node dissection and increased breast epidermal thickness 1 year after radiation therapy for breast cancer. *Journal of Surgical Oncology*, **2019**, 120, 1397-1403	2.8	0
13	Onboard cone-beam CT-based replan evaluation for head and neck proton therapy.. *Journal of Applied Clinical Medical Physics*, **2022**, e13550	2.3	0
12	Dosimetric Uncertainties in Dominant Intraprostatic Lesion Simultaneous Boost Using Intensity Modulated Proton Therapy. *Advances in Radiation Oncology*, **2022**, 7, 100826	3.3	0
11	Synthetic CT-aided multiorgan segmentation for CBCT-guided adaptive pancreatic radiotherapy. *Medical Physics*, **2021**, 48, 7063-7073	4.4	0
10	Lung tumor segmentation in 4D CT images using motion convolutional neural networks. *Medical Physics*, **2021**, 48, 7141-7153	4.4	0
9	Catheter position prediction using deep-learning-based multi-atlas registration for high-dose rate prostate brachytherapy. *Medical Physics*, **2021**, 48, 7261-7270	4.4	0
8	Longitudinal Changes in U.S. Parameters of Neurovascular Bundles Suggest Mechanism for Radiation-Induced Erectile Dysfunction.. *Advances in Radiation Oncology*, **2022**, 7, 100946	3.3	0
7	Generative adversarial networks for medical image synthesis **2022**, 105-128		0
6	Intestinal microbiota to predict lung cancer patients at risk of immune-related diarrhea.. *Journal of Clinical Oncology*, **2018**, 36, 3067-3067	2.2	
5	Neurovascular bundle-sparing radiotherapy for prostate cancer using MRI-CT registration: A dosimetric feasibility study.. *Journal of Clinical Oncology*, **2016**, 34, 128-128	2.2	
4	A prospective longitudinal study of cancer-related fatigue in patients undergoing breast-conserving surgery and radiation with or without chemotherapy for breast cancer.. *Journal of Clinical Oncology*, **2012**, 30, 9122-9122	2.2	
3	Perceived stress to predict for acute radiation-induced skin toxicity: The mind-body connection.. *Journal of Clinical Oncology*, **2013**, 31, 62-62	2.2	

2	A prospective study on behavioral symptoms□impact to the quality of life in patients with early-stage cancer receiving radiotherapy.. *Journal of Clinical Oncology*, **2013**, 31, 46-46	2.2
1	MRI classification using semantic random forest with auto-context model. *Quantitative Imaging in Medicine and Surgery*, **2021**, 11, 4753-4766	3.6