

# Tian Liu

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/11069275/tian-liu-publications-by-year.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	Onboard cone-beam CT-based replan evaluation for head and neck proton therapy.. <i>Journal of Applied Clinical Medical Physics</i> , <b>2022</b> , e13550	2.3	0
162	Dosimetric Uncertainties in Dominant Intraprostatic Lesion Simultaneous Boost Using Intensity Modulated Proton Therapy. <i>Advances in Radiation Oncology</i> , <b>2022</b> , 7, 100826	3.3	0
161	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> , <b>2022</b> , 95, 20210644	3.4	4
160	Review of Machine Learning in Lung Ultrasound in COVID-19 Pandemic.. <i>Journal of Imaging</i> , <b>2022</b> , 8,	3.1	3
159	Longitudinal Changes in U.S. Parameters of Neurovascular Bundles Suggest Mechanism for Radiation-Induced Erectile Dysfunction.. <i>Advances in Radiation Oncology</i> , <b>2022</b> , 7, 100946	3.3	0
158	Generative adversarial networks for medical image synthesis <b>2022</b> , 105-128		0
157	Prostate and dominant intraprostatic lesion segmentation on PET/CT using cascaded regional-net. <i>Physics in Medicine and Biology</i> , <b>2021</b> , 66,	3.8	1
156	Synthetic CT-aided multiorgan segmentation for CBCT-guided adaptive pancreatic radiotherapy. <i>Medical Physics</i> , <b>2021</b> , 48, 7063-7073	4.4	0
155	Deep learning-based motion tracking using ultrasound images. <i>Medical Physics</i> , <b>2021</b> , 48, 7747	4.4	2
154	Synthetic dual-energy CT for MRI-only based proton therapy treatment planning using label-GAN. <i>Physics in Medicine and Biology</i> , <b>2021</b> , 66, 065014	3.8	6
153	Male pelvic CT multi-organ segmentation using synthetic MRI-aided dual pyramid networks. <i>Physics in Medicine and Biology</i> , <b>2021</b> , 66,	3.8	3
152	Echocardiographic image multi-structure segmentation using Cardiac-SegNet. <i>Medical Physics</i> , <b>2021</b> , 48, 2426-2437	4.4	4
151	Automatic delineation of cardiac substructures using a region-based fully convolutional network. <i>Medical Physics</i> , <b>2021</b> , 48, 2867-2876	4.4	7
150	Male pelvic multi-organ segmentation on transrectal ultrasound using anchor-free mask CNN. <i>Medical Physics</i> , <b>2021</b> , 48, 3055-3064	4.4	2
149	A review of deep learning based methods for medical image multi-organ segmentation. <i>Physica Medica</i> , <b>2021</b> , 85, 107-122	2.7	15
148	Artificial intelligence in tumor subregion analysis based on medical imaging: A review. <i>Journal of Applied Clinical Medical Physics</i> , <b>2021</b> , 22, 10-26	2.3	2
147	Self-supervised learning for accelerated 3D high-resolution ultrasound imaging. <i>Medical Physics</i> , <b>2021</b> , 48, 3916-3926	4.4	1

146	Learning-based dose prediction for pancreatic stereotactic body radiation therapy using dual pyramid adversarial network. <i>Physics in Medicine and Biology</i> , <b>2021</b> , 66,	3.8	3
145	Knowledge-based radiation treatment planning: A data-driven method survey. <i>Journal of Applied Clinical Medical Physics</i> , <b>2021</b> , 22, 16-44	2.3	4
144	Fully automated segmentation of brain tumor from multiparametric MRI using 3D context deep supervised U-Net. <i>Medical Physics</i> , <b>2021</b> , 48, 4365-4374	4.4	4
143	Biomechanically constrained non-rigid MR-TRUS prostate registration using deep learning based 3D point cloud matching. <i>Medical Image Analysis</i> , <b>2021</b> , 67, 101845	15.4	11
142	Deformable MR-CBCT prostate registration using biomechanically constrained deep learning networks. <i>Medical Physics</i> , <b>2021</b> , 48, 253-263	4.4	12
141	A review on medical imaging synthesis using deep learning and its clinical applications. <i>Journal of Applied Clinical Medical Physics</i> , <b>2021</b> , 22, 11-36	2.3	38
140	Automatic quantification of myocardium and pericardial fat from coronary computed tomography angiography: a multicenter study. <i>European Radiology</i> , <b>2021</b> , 31, 3826-3836	8	2
139	Breast tumor segmentation in 3D automatic breast ultrasound using Mask scoring R-CNN. <i>Medical Physics</i> , <b>2021</b> , 48, 204-214	4.4	16
138	MRI classification using semantic random forest with auto-context model. <i>Quantitative Imaging in Medicine and Surgery</i> , <b>2021</b> , 11, 4753-4766	3.6	
137	Learning-Based Stopping Power Mapping on Dual-Energy CT for Proton Radiation Therapy. <i>International Journal of Particle Therapy</i> , <b>2021</b> , 7, 46-60	1.5	1
136	Head-and-neck organs-at-risk auto-delineation using dual pyramid networks for CBCT-guided adaptive radiotherapy. <i>Physics in Medicine and Biology</i> , <b>2021</b> , 66, 045021	3.8	8
135	High through-plane resolution CT imaging with self-supervised deep learning. <i>Physics in Medicine and Biology</i> , <b>2021</b> , 66,	3.8	1
134	Artificial Intelligence in Quantitative Ultrasound Imaging: A Survey. <i>Journal of Ultrasound in Medicine</i> , <b>2021</b> ,	2.9	1
133	Automated delineation of head and neck organs at risk using synthetic MRI-aided mask scoring regional convolutional neural network. <i>Medical Physics</i> , <b>2021</b> , 48, 5862-5873	4.4	3
132	Lung tumor segmentation in 4D CT images using motion convolutional neural networks. <i>Medical Physics</i> , <b>2021</b> , 48, 7141-7153	4.4	0
131	Catheter position prediction using deep-learning-based multi-atlas registration for high-dose rate prostate brachytherapy. <i>Medical Physics</i> , <b>2021</b> , 48, 7261-7270	4.4	0
130	Artificial Intelligence in Radiation Therapy. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , <b>2021</b> , 1-1	4.2	1
129	Automatic multi-catheter detection using deeply supervised convolutional neural network in MRI-guided HDR prostate brachytherapy. <i>Medical Physics</i> , <b>2020</b> , 47, 4115-4124	4.4	12

128	Analytical Low-Dose CBCT Reconstruction Using Non-local Total Variation Regularization for Image Guided Radiation Therapy. <i>Frontiers in Oncology</i> , <b>2020</b> , 10, 242	5.3	2
127	Automatic segmentation and quantification of epicardial adipose tissue from coronary computed tomography angiography. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 095012	3.8	7
126	Multi-needle Localization with Attention U-Net in US-guided HDR Prostate Brachytherapy. <i>Medical Physics</i> , <b>2020</b> , 47, 2735-2745	4.4	15
125	CBCT-based synthetic CT generation using deep-attention cycleGAN for pancreatic adaptive radiotherapy. <i>Medical Physics</i> , <b>2020</b> , 47, 2472-2483	4.4	36
124	Deep learning in medical image registration: a review. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 20TR01	3.8	102
123	Cone-beam CT-derived relative stopping power map generation via deep learning for proton radiotherapy. <i>Medical Physics</i> , <b>2020</b> , 47, 4416-4427	4.4	9
122	4D-CT deformable image registration using multiscale unsupervised deep learning. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 085003	3.8	22
121	A standardized commissioning framework of Monte Carlo dose calculation algorithms for proton pencil beam scanning treatment planning systems. <i>Medical Physics</i> , <b>2020</b> , 47, 1545-1557	4.4	15
120	Multi-Needle Detection in 3D Ultrasound Images Using Unsupervised Order-Graph Regularized Sparse Dictionary Learning. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 2302-2315	11.7	13
119	LungRegNet: An unsupervised deformable image registration method for 4D-CT lung. <i>Medical Physics</i> , <b>2020</b> , 47, 1763-1774	4.4	29
118	A preliminary study on a multiresolution-level inverse planning approach for Gamma Knife radiosurgery. <i>Medical Physics</i> , <b>2020</b> , 47, 1523-1532	4.4	8
117	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> , <b>2020</b> , 65, 135002	3.8	16
116	Pelvic multi-organ segmentation on cone-beam CT for prostate adaptive radiotherapy. <i>Medical Physics</i> , <b>2020</b> , 47, 3415-3422	4.4	16
115	Deep learning-based breast tumor detection and segmentation in 3D ultrasound image <b>2020</b> ,		3
114	Breast cancer patient reported outcomes, depression, and objective measures of breast cosmesis.. <i>Journal of Clinical Oncology</i> , <b>2020</b> , 38, 569-569	2.2	1
113	Automatic multi-needle localization in ultrasound images using large margin mask RCNN for ultrasound-guided prostate brachytherapy. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 205003	3.8	5
112	Intensity non-uniformity correction in MR imaging using residual cycle generative adversarial network. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 215025	3.8	8
111	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> , <b>2020</b> , 65, 235003	3.8	5

110	High quality proton portal imaging using deep learning for proton radiation therapy: a phantom study. <i>Biomedical Physics and Engineering Express</i> , <b>2020</b> , 6, 035029	1.5	3
109	Instruments for determining clinically relevant fatigue in breast cancer patients during radiotherapy. <i>Breast Cancer</i> , <b>2020</b> , 27, 197-205	3.4	2
108	A planning study of focal dose escalations to multiparametric MRI-defined dominant intraprostatic lesions in prostate proton radiation therapy. <i>British Journal of Radiology</i> , <b>2020</b> , 93, 20190845	3.4	7
107	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> , <b>2020</b> , 65, 055011	3.8	49
106	Male pelvic multi-organ segmentation aided by CBCT-based synthetic MRI. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 035013	3.8	32
105	Impact of Regional Nodal Irradiation and Hypofractionated Whole-Breast Radiation on Long-Term Breast Retraction and Poor Cosmetic Outcome in Breast Cancer Survivors. <i>Clinical Breast Cancer</i> , <b>2020</b> , 20, e75-e81	3	3
104	CT prostate segmentation based on synthetic MRI-aided deep attention fully convolution network. <i>Medical Physics</i> , <b>2020</b> , 47, 530-540	4.4	34
103	Multimodal MRI synthesis using unified generative adversarial networks. <i>Medical Physics</i> , <b>2020</b> , 47, 6343-6354	4.4	14
102	Simultaneous dose and dose rate optimization (SDDRO) for FLASH proton therapy. <i>Medical Physics</i> , <b>2020</b> , 47, 6388-6395	4.4	11
101	Brain tumor segmentation using 3D Mask R-CNN for dynamic susceptibility contrast enhanced perfusion imaging. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 185009	3.8	11
100	Automated left ventricular myocardium segmentation using 3D deeply supervised attention U-net for coronary computed tomography angiography; CT myocardium segmentation. <i>Medical Physics</i> , <b>2020</b> , 47, 1775-1785	4.4	11
99	Head and neck multi-organ auto-segmentation on CT images aided by synthetic MRI. <i>Medical Physics</i> , <b>2020</b> , 47, 4294-4302	4.4	10
98	CT-based multi-organ segmentation using a 3D self-attention U-net network for pancreatic radiotherapy. <i>Medical Physics</i> , <b>2020</b> , 47, 4316-4324	4.4	16
97	Machine learning in quantitative PET: A review of attenuation correction and low-count image reconstruction methods. <i>Physica Medica</i> , <b>2020</b> , 76, 294-306	2.7	26
96	Technical Note: Plan-delivery-time constrained inverse optimization method with minimum-MU-per-energy-layer (MMPEL) for efficient pencil beam scanning proton therapy. <i>Medical Physics</i> , <b>2020</b> , 47, 3892-3897	4.4	4
95	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> , <b>2020</b> , 27, 976-987 <sup>2.1</sup>	2.1	46
94	Thyroid gland delineation in noncontrast-enhanced CT using deep convolutional neural networks. <i>Physics in Medicine and Biology</i> , <b>2020</b> ,	3.8	1
93	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> , <b>2019</b> , 64, 205022	3.8	23

92	Synthetic CT generation from non-attenuation corrected PET images for whole-body PET imaging. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 215016	3.8	34
91	Intestinal microbiota predicts lung cancer patients at risk of immune-related diarrhea. <i>Immunotherapy</i> , <b>2019</b> , 11, 385-396	3.8	22
90	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> , <b>2019</b> , 20, 121-128	2.3	15
89	MRI-only based synthetic CT generation using dense cycle consistent generative adversarial networks. <i>Medical Physics</i> , <b>2019</b> , 46, 3565-3581	4.4	95
88	Paired cycle-GAN-based image correction for quantitative cone-beam computed tomography. <i>Medical Physics</i> , <b>2019</b> , 46, 3998-4009	4.4	74
87	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> , <b>2019</b> , 64, 145015	3.8	37
86	Learning-based automatic segmentation of arteriovenous malformations on contrast CT images in brain stereotactic radiosurgery. <i>Medical Physics</i> , <b>2019</b> , 46, 3133-3141	4.4	23
85	Ultrasound prostate segmentation based on multidirectional deeply supervised V-Net. <i>Medical Physics</i> , <b>2019</b> , 46, 3194-3206	4.4	52
84	Minimum MU optimization (MMO): an inverse optimization approach for the PBS minimum MU constraint. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 125022	3.8	5
83	Dosimetric study on learning-based cone-beam CT correction in adaptive radiation therapy. <i>Medical Dosimetry</i> , <b>2019</b> , 44, e71-e79	1.3	15
82	Dose evaluation of MRI-based synthetic CT generated using a machine learning method for prostate cancer radiotherapy. <i>Medical Dosimetry</i> , <b>2019</b> , 44, e64-e70	1.3	21
81	MRI-based synthetic CT generation using semantic random forest with iterative refinement. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 085001	3.8	19
80	Multiparametric MRI-guided dose boost to dominant intraprostatic lesions in CT-based High-dose-rate prostate brachytherapy. <i>British Journal of Radiology</i> , <b>2019</b> , 92, 20190089	3.4	13
79	Deeply supervised 3D fully convolutional networks with group dilated convolution for automatic MRI prostate segmentation. <i>Medical Physics</i> , <b>2019</b> , 46, 1707-1718	4.4	90
78	Automatic multiorgan segmentation in thorax CT images using U-net-GAN. <i>Medical Physics</i> , <b>2019</b> , 46, 2157-2168	4.4	128
77	MRI-based treatment planning for brain stereotactic radiosurgery: Dosimetric validation of a learning-based pseudo-CT generation method. <i>Medical Dosimetry</i> , <b>2019</b> , 44, 199-204	1.3	34
76	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> , <b>2019</b> , 92, 20190067	3.4	31
75	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> , <b>2019</b> , 9, 1201-1213	3.6	18

74	Minimum-MU and sparse-energy-layer (MMSEL) constrained inverse optimization method for efficiently deliverable PBS plans. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 205001	3.8	5
73	Whole-body PET estimation from low count statistics using cycle-consistent generative adversarial networks. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 215017	3.8	35
72	Full axillary lymph node dissection and increased breast epidermal thickness 1 year after radiation therapy for breast cancer. <i>Journal of Surgical Oncology</i> , <b>2019</b> , 120, 1397-1403	2.8	0
71	Synthetic MRI-aided multi-organ segmentation on male pelvic CT using cycle consistent deep attention network. <i>Radiotherapy and Oncology</i> , <b>2019</b> , 141, 192-199	5.3	55
70	Deep learning-based image quality improvement for low-dose computed tomography simulation in radiation therapy. <i>Journal of Medical Imaging</i> , <b>2019</b> , 6, 043504	2.6	12
69	Image quality improvement in cone-beam CT using deep learning <b>2019</b> ,		5
68	Automated prostate segmentation of volumetric CT images using 3D deeply supervised dilated FCN <b>2019</b> ,		9
67	MRI-based synthetic CT generation using deep convolutional neural network <b>2019</b> ,		4
66	Automatic MRI prostate segmentation using 3D deeply supervised FCN with concatenated atrous convolution <b>2019</b> ,		4
65	Learning-based automatic segmentation on arteriovenous malformations from contrast-enhanced CT images <b>2019</b> ,		1
64	Ultrasound prostate segmentation based on 3D V-Net with deep supervision <b>2019</b> ,		5
63	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.. <i>Journal of Clinical Oncology</i> , <b>2019</b> , 37, 6065-6065	2.2	7
62	MRI-Based Proton Treatment Planning for Base of Skull Tumors. <i>International Journal of Particle Therapy</i> , <b>2019</b> , 6, 12-25	1.5	11
61	CBCT-Based Synthetic MRI Generation for CBCT-Guided Adaptive Radiotherapy. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 154-161	0.9	2
60	4D-CT Deformable Image Registration Using an Unsupervised Deep Convolutional Neural Network. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 26-33	0.9	7
59	Learning-based CBCT correction using alternating random forest based on auto-context model. <i>Medical Physics</i> , <b>2019</b> , 46, 601-618	4.4	25
58	MRI-based attenuation correction for brain PET/MRI based on anatomic signature and machine learning. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 025001	3.8	23
57	Magnetic resonance imaging-based pseudo computed tomography using anatomic signature and joint dictionary learning. <i>Journal of Medical Imaging</i> , <b>2018</b> , 5, 034001	2.6	15

56	MRI-based pseudo CT synthesis using anatomical signature and alternating random forest with iterative refinement model. <i>Journal of Medical Imaging</i> , <b>2018</b> , 5, 043504	2.6	18
55	Improving Image Quality of Cone-Beam CT Using Alternating Regression Forest. <i>Proceedings of SPIE</i> , <b>2018</b> , 10573,	1.7	6
54	Intestinal microbiota to predict risk for immune-related diarrhea in patients with lung cancer patients.. <i>Journal of Clinical Oncology</i> , <b>2018</b> , 36, 132-132	2.2	1
53	High-resolution CT Image Retrieval Using Sparse Convolutional Neural Network. <i>Proceedings of SPIE</i> , <b>2018</b> , 10573,	1.7	2
52	A Denoising Algorithm for CT Image Using Low-rank Sparse Coding. <i>Proceedings of SPIE</i> , <b>2018</b> , 10574,	1.7	3
51	Intestinal microbiota to predict lung cancer patients at risk of immune-related diarrhea.. <i>Journal of Clinical Oncology</i> , <b>2018</b> , 36, 3067-3067	2.2	
50	Reproducibility in contouring the neurovascular bundle for prostate cancer radiation therapy. <i>Practical Radiation Oncology</i> , <b>2018</b> , 8, e125-e131	2.8	6
49	A Patch-based CBCT Scatter Artifact Correction Using Prior CT. <i>Proceedings of SPIE</i> , <b>2017</b> , 10132,	1.7	4
48	Pseudo CT Estimation from MRI Using Patch-based Random Forest. <i>Proceedings of SPIE</i> , <b>2017</b> , 10133,	1.7	18
47	Ultrasound 2D strain measurement for arm lymphedema using deformable registration: A feasibility study. <i>PLoS ONE</i> , <b>2017</b> , 12, e0181250	3.7	3
46	Strain elastography imaging for early detection and prediction of tumor response to concurrent chemo-radiotherapy in locally advanced cervical cancer: feasibility study. <i>BMC Cancer</i> , <b>2017</b> , 17, 427	4.8	6
45	Assessment of histological differentiation in gastric cancers using whole-volume histogram analysis of apparent diffusion coefficient maps. <i>Journal of Magnetic Resonance Imaging</i> , <b>2017</b> , 45, 440-449	5.6	29
44	Improved prostate delineation in prostate HDR brachytherapy with TRUS-CT deformable registration technology: A pilot study with MRI validation. <i>Journal of Applied Clinical Medical Physics</i> , <b>2017</b> , 18, 202-210	2.3	7
43	A Single-institution Experience with Open Irreversible Electroporation for Locally Advanced Pancreatic Carcinoma. <i>Chinese Medical Journal</i> , <b>2016</b> , 129, 2920-2925	2.9	35
42	Early evaluation of irradiated parotid glands with intravoxel incoherent motion MR imaging: correlation with dynamic contrast-enhanced MR imaging. <i>BMC Cancer</i> , <b>2016</b> , 16, 865	4.8	17
41	A MRI-CT prostate registration using sparse representation technique <b>2016</b> ,		1
40	Evaluating early response of cervical cancer under concurrent chemo-radiotherapy by intravoxel incoherent motion MR imaging. <i>BMC Cancer</i> , <b>2016</b> , 16, 79	4.8	41
39	The Impact of Axillary Lymph Node Surgery on Breast Skin Thickening During and After Radiation Therapy for Breast Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2016</b> , 95, 590-6	4	5



38	Neurovascular bundle-sparing radiotherapy for prostate cancer using MRI-CT registration: A dosimetric feasibility study.. <i>Journal of Clinical Oncology</i> , <b>2016</b> , 34, 128-128	2.2	
37	Patch-Based Label Fusion for Automatic Multi-Atlas-Based Prostate Segmentation in MR Images. <i>Proceedings of SPIE</i> , <b>2016</b> , 9786,	1.7	1
36	A prospective study of quality of life in breast cancer patients undergoing radiation therapy. <i>Advances in Radiation Oncology</i> , <b>2016</b> , 1, 10-16	3.3	21
35	3D Transrectal Ultrasound (TRUS) Prostate Segmentation Based on Optimal Feature Learning Framework. <i>Proceedings of SPIE</i> , <b>2016</b> , 9784,	1.7	10
34	A MR-TRUS Registration Method for Ultrasound-Guided Prostate Interventions. <i>Proceedings of SPIE</i> , <b>2015</b> , 9415,	1.7	5
33	Quantitative Ultrasonic Nakagami Imaging of Neck Fibrosis After Head and Neck Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2015</b> , 92, 407-14	4	14
32	Preoperative apparent diffusion coefficient value of gastric cancer by diffusion-weighted imaging: Correlations with postoperative TNM staging. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 42, 837-43	5.6	26
31	Correlation between apparent diffusion coefficients and HER2 status in gastric cancers: pilot study. <i>BMC Cancer</i> , <b>2015</b> , 15, 749	4.8	16
30	Dynamic Contrast-Enhanced CT Characterization of Xp11.2 Translocation/TFE3 Gene Fusions versus Papillary Renal Cell Carcinomas. <i>BioMed Research International</i> , <b>2015</b> , 2015, 298679	3	3
29	A 3D Neurovascular Bundles Segmentation Method based on MR-TRUS Deformable Registration. <i>Proceedings of SPIE</i> , <b>2015</b> , 9413,	1.7	1
28	Prostate CT segmentation method based on nonrigid registration in ultrasound-guided CT-based HDR prostate brachytherapy. <i>Medical Physics</i> , <b>2014</b> , 41, 111915	4.4	15
27	Apparent diffusion coefficient value of gastric cancer by diffusion-weighted imaging: correlations with the histological differentiation and Lauren classification. <i>European Journal of Radiology</i> , <b>2014</b> , 83, 2122-2128	4.7	22
26	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. <i>Academic Radiology</i> , <b>2014</b> , 21, 1304-13	4.3	10
25	Ultrasound 2D Strain Estimator Based on Image Registration for Ultrasound Elastography. <i>Proceedings of SPIE</i> , <b>2014</b> , 9040,	1.7	7
24	A New CT Prostate Segmentation for CT-Based HDR Brachytherapy. <i>Proceedings of SPIE</i> , <b>2014</b> , 9036, 90362K	1.7	4
23	3D Ultrasound Nakagami Imaging for Radiation-Induced Vaginal Fibrosis. <i>Proceedings of SPIE</i> , <b>2014</b> , 9040,	1.7	1
22	Ultrasonic Nakagami-parameter characterization of parotid-gland injury following head-and-neck radiotherapy: a feasibility study of late toxicity. <i>Medical Physics</i> , <b>2014</b> , 41, 022903	4.4	15
21	Automated segmentation of the parotid gland based on atlas registration and machine learning: a longitudinal MRI study in head-and-neck radiation therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2014</b> , 90, 1225-33	4	67

20	A Novel Ultrasound-CT Deformable Registration Process Improves Physician Contouring during CT-based HDR Brachytherapy for Prostate Cancer. <i>Brachytherapy</i> , <b>2014</b> , 13, S67-S68	2.4	3
19	Automated skin segmentation in ultrasonic evaluation of skin toxicity in breast cancer radiotherapy. <i>Ultrasound in Medicine and Biology</i> , <b>2013</b> , 39, 2166-75	3.5	21
18	Multi-atlas-based Segmentation of the Parotid Glands of MR Images in Patients Following Head-and-neck Cancer Radiotherapy. <i>Proceedings of SPIE</i> , <b>2013</b> , 8670,	1.7	5
17	Perceived stress to predict for acute radiation-induced skin toxicity: The mind-body connection.. <i>Journal of Clinical Oncology</i> , <b>2013</b> , 31, 62-62	2.2	
16	A prospective study on behavioral symptoms—Impact to the quality of life in patients with early-stage cancer receiving radiotherapy.. <i>Journal of Clinical Oncology</i> , <b>2013</b> , 31, 46-46	2.2	
15	Reliability of quantitative ultrasonic assessment of normal-tissue toxicity in breast cancer radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2012</b> , 82, 724-31	4	15
14	Ultrasound histogram assessment of parotid gland injury following head-and-neck radiotherapy: a feasibility study. <i>Ultrasound in Medicine and Biology</i> , <b>2012</b> , 38, 1514-21	3.5	15
13	Ultrasound GLCM texture analysis of radiation-induced parotid-gland injury in head-and-neck cancer radiotherapy: an in vivo study of late toxicity. <i>Medical Physics</i> , <b>2012</b> , 39, 5732-9	4.4	93
12	A prospective longitudinal study of cancer-related fatigue in patients—undergoing breast-conserving surgery and radiation with or without chemotherapy for breast cancer.. <i>Journal of Clinical Oncology</i> , <b>2012</b> , 30, 9122-9122	2.2	
11	Quantitative ultrasonic evaluation of radiation-induced late tissue toxicity: pilot study of breast cancer radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2010</b> , 78, 811-20	4	24
10	Implementation and validation of an ultrasonic tissue characterization technique for quantitative assessment of normal-tissue toxicity in radiation therapy. <i>Medical Physics</i> , <b>2009</b> , 36, 1643-50	4.4	11
9	A feasibility study of novel ultrasonic tissue characterization for prostate-cancer diagnosis: 2D spectrum analysis of in vivo data with histology as gold standard. <i>Medical Physics</i> , <b>2009</b> , 36, 3504-11	4.4	8
8	How does performance of ultrasound tissue typing affect design of prostate IMRT dose-painting protocols?. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2007</b> , 67, 362-8	4	6
7	Ultrasonic tissue characterization via 2-D spectrum analysis: theory and in vitro measurements. <i>Medical Physics</i> , <b>2007</b> , 34, 1037-46	4.4	14
6	Ultrasonic tissue characterization using 2-D spectrum analysis and its application in ocular tumor diagnosis. <i>Medical Physics</i> , <b>2004</b> , 31, 1032-9	4.4	23
5	Ultrasonic spectrum-analysis and neural-network classification as a basis for ultrasonic imaging to target brachytherapy of prostate cancer. <i>Brachytherapy</i> , <b>2002</b> , 1, 48-53	2.4	14
4	Spectrum-analysis and neural networks for imaging to detect and treat prostate cancer. <i>Ultrasonic Imaging</i> , <b>2001</b> , 23, 135-46	1.9	40
3	Ultrasonic spectral-parameter imaging of the prostate. <i>International Journal of Imaging Systems and Technology</i> , <b>1997</b> , 8, 11-25	2.5	73

2	Ultrasonic spectrum analysis for tissue assays and therapy evaluation. <i>International Journal of Imaging Systems and Technology</i> , <b>1997</b> , 8, 3-10	2.5	141
1	Typing of prostate tissue by ultrasonic spectrum analysis. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>1996</b> , 43, 609-619	3.2	125