

# Xiaofeng Yang

## List of Publications by Citations

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232  
papers

3,077  
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ext. papers

4,509  
ext. citations

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avg, IF

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#	Paper	IF	Citations
232	Automatic multiorgan segmentation in thorax CT images using U-net-GAN. <i>Medical Physics</i> , <b>2019</b> , 46, 2157-2168	4.4	128
231	Deep learning in medical image registration: a review. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 20TR01	3.8	102
230	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
229	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
228	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
227	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
226	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
225	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
224	Ultrasound prostate segmentation based on multidirectional deeply supervised V-Net. <i>Medical Physics</i> , <b>2019</b> , 46, 3194-3206	4.4	52
223	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
222	A multiscale and multiblock fuzzy C-means classification method for brain MR images. <i>Medical Physics</i> , <b>2011</b> , 38, 2879-91	4.4	48
221	Cupping artifact correction and automated classification for high-resolution dedicated breast CT images. <i>Medical Physics</i> , <b>2012</b> , 39, 6397-406	4.4	47
220	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>		46
219	MRPET quantification tools: registration, segmentation, classification, and MR-based attenuation correction. <i>Medical Physics</i> , <b>2012</b> , 39, 6443-54	4.4	43
218	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
217	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
216	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

215	A wavelet multiscale denoising algorithm for magnetic resonance (MR) images. <i>Measurement Science and Technology</i> , <b>2011</b> , 22, 25803	2	37
214	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
213	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
212	Group independent component analysis and functional MRI examination of changes in language areas associated with brain tumors at different locations. <i>PLoS ONE</i> , <b>2013</b> , 8, e59657	3.7	35
211	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
210	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
209	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
208	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
207	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
206	LungRegNet: An unsupervised deformable image registration method for 4D-CT lung. <i>Medical Physics</i> , <b>2020</b> , 47, 1763-1774	4.4	29
205	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
204	A dual-modal magnetic nanoparticle probe for preoperative and intraoperative mapping of sentinel lymph nodes by magnetic resonance and near infrared fluorescence imaging. <i>Journal of Biomaterials Applications</i> , <b>2013</b> , 28, 100-11	2.9	27
203	3D Prostate Segmentation of Ultrasound Images Combining Longitudinal Image Registration and Machine Learning. <i>Proceedings of SPIE</i> , <b>2012</b> , 8316, 83162O	1.7	27
202	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
201	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
200	Radiomics analysis using contrast-enhanced CT for preoperative prediction of occult peritoneal metastasis in advanced gastric cancer. <i>European Radiology</i> , <b>2020</b> , 30, 239-246	8	26
199	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
198	Texture Analysis as Imaging Biomarker for recurrence in advanced cervical cancer treated with CCRT. <i>Scientific Reports</i> , <b>2018</b> , 8, 11399	4.9	24

197	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
196	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
195	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
194	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
193	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
192	Multiscale segmentation of the skull in MR images for MRI-based attenuation correction of combined MR/PET. <i>Journal of the American Medical Informatics Association: JAMIA</i> , <b>2013</b> , 20, 1037-45	8.6	22
191	Automatic 3D Segmentation of Ultrasound Images Using Atlas Registration and Statistical Texture Prior. <i>Proceedings of SPIE</i> , <b>2011</b> , 7964,	1.7	22
190	3D Non-rigid Registration Using Surface and Local Salient Features for Transrectal Ultrasound Image-guided Prostate Biopsy. <i>Proceedings of SPIE</i> , <b>2011</b> , 7964, 79642V	1.7	22
189	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
188	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
187	Predictive and prognostic value of intravoxel incoherent motion (IVIM) MR imaging in patients with advanced cervical cancers undergoing concurrent chemo-radiotherapy. <i>Scientific Reports</i> , <b>2017</b> , 7, 116354-9	4.9	20
186	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
185	DC Autotransformer-Based Traction Power Supply for Urban Transit Rail Potential and Stray Current Mitigation. <i>IEEE Transactions on Transportation Electrification</i> , <b>2020</b> , 6, 762-773	7.6	19
184	The non-Gaussian nature of prostate motion based on real-time intrafraction tracking. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2013</b> , 87, 363-9	4	19
183	Pseudo CT Estimation from MRI Using Patch-based Random Forest. <i>Proceedings of SPIE</i> , <b>2017</b> , 10133,	1.7	18
182	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
181	Pulmonary enhancement imaging with dual energy CT for the detection of pulmonary embolism in a rabbit model: comparison to perfusion planar scintigraphy, SPECT and SPECT-CT modalities. <i>Academic Radiology</i> , <b>2011</b> , 18, 605-14	4.3	18
180	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

179	Whole-lesion ADC histogram and texture analysis in predicting recurrence of cervical cancer treated with CCRT. <i>Oncotarget</i> , <b>2017</b> , 8, 92442-92453	3.3	18
178	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
177	3D Segmentation of Prostate Ultrasound images Using Wavelet Transform. <i>Proceedings of SPIE</i> , <b>2011</b> , 7962, 79622K	1.7	17
176	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
175	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
174	An enhanced reverse blocking MMC with DC fault handling capability for HVDC applications. <i>Electric Power Systems Research</i> , <b>2018</b> , 163, 706-714	3.5	16
173	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
172	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
171	Negative Resistance Converter Traction Power System for Reducing Rail Potential and Stray Current in the Urban Rail Transit. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 7, 225-239	7.6	16
170	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
169	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
168	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
167	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
166	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
165	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
164	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
163	Automatic Tissue Classification for High-resolution Breast CT Images Based on Bilateral Filtering. <i>Proceedings of SPIE</i> , <b>2011</b> , 7962, 79623H	1.7	15
162	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

161	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
160	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
159	Apparent diffusion coefficient histogram shape analysis for monitoring early response in patients with advanced cervical cancers undergoing concurrent chemo-radiotherapy. <i>Radiation Oncology</i> , <b>2016</b> , 11, 141	4.2	14
158	Deep morphology aided diagnosis network for segmentation of carotid artery vessel wall and diagnosis of carotid atherosclerosis on black-blood vessel wall MRI. <i>Medical Physics</i> , <b>2019</b> , 46, 5544-5561	4.4	14
157	Noninvasive evaluation of vaginal fibrosis following radiotherapy for gynecologic malignancies: a feasibility study with ultrasound B-mode and Nakagami parameter imaging. <i>Medical Physics</i> , <b>2013</b> , 40, 022901	4.4	14
156	Nonrigid Registration and Classification of the Kidneys in 3D Dynamic Contrast Enhanced (DCE) MR Images. <i>Proceedings of SPIE</i> , <b>2012</b> , 8314, 83140B	1.7	14
155	Multimodal MRI synthesis using unified generative adversarial networks. <i>Medical Physics</i> , <b>2020</b> , 47, 6343-6354	4.4	14
154	Histogram analysis of apparent diffusion coefficient for monitoring early response in patients with advanced cervical cancers undergoing concurrent chemo-radiotherapy. <i>Acta Radiologica</i> , <b>2017</b> , 58, 1400-1408	2	13
153	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
152	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
151	Automated delineation of organs-at-risk in head and neck CT images using multi-output support vector regression <b>2018</b> ,		13
150	Predicting and Early Monitoring Treatment Efficiency of Cervical Cancer Under Concurrent Chemoradiotherapy by Intravoxel Incoherent Motion Magnetic Resonance Imaging. <i>Journal of Computer Assisted Tomography</i> , <b>2017</b> , 41, 422-429	2.2	12
149	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
148	Neurovascular bundle-sparing radiotherapy for prostate cancer using MRI-CT registration: A dosimetric feasibility study. <i>Medical Dosimetry</i> , <b>2016</b> , 41, 339-343	1.3	12
147	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
146	Deformable MR-CBCT prostate registration using biomechanically constrained deep learning networks. <i>Medical Physics</i> , <b>2021</b> , 48, 253-263	4.4	12
145	Early evaluation of radiation-induced parotid damage in patients with nasopharyngeal carcinoma by T2 mapping and mDIXON Quant imaging: initial findings. <i>Radiation Oncology</i> , <b>2018</b> , 13, 22	4.2	11
144	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

143	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
142	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
141	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
140	Surface thermochemical effects on TPS-coupled aerothermodynamics in hypersonic Martian gas flow. <i>Acta Astronautica</i> , <b>2018</b> , 147, 445-453	2.9	10
139	Machine Learning Assisted MRI Characterization for Diagnosis of Neonatal Acute Bilirubin Encephalopathy. <i>Frontiers in Neurology</i> , <b>2019</b> , 10, 1018	4.1	10
138	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
137	Ultrasound Elastography for Lung Disease Assessment. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2020</b> , 67, 2249-2257	3.2	10
136	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
135	3D Transrectal Ultrasound (TRUS) Prostate Segmentation Based on Optimal Feature Learning Framework. <i>Proceedings of SPIE</i> , <b>2016</b> , 9784,	1.7	10
134	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
133	Automated prostate segmentation of volumetric CT images using 3D deeply supervised dilated FCN <b>2019</b> ,		9
132	A PET/CT Directed, 3D Ultrasound-Guided Biopsy System for Prostate Cancer. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 6363, 100-108	0.9	9
131	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
130	Novel modular multilevel converter against DC faults for HVDC applications. <i>CSEE Journal of Power and Energy Systems</i> , <b>2017</b> , 3, 140-149	2.3	8
129	Influence of vascular comorbidities and race on erectile dysfunction after prostate cancer radiotherapy. <i>Journal of Sexual Medicine</i> , <b>2013</b> , 10, 2108-14	1.1	8
128	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
127	High-frequency Ultrasound in Clinical Dermatology: a review. <i>Ultrasound Journal</i> , <b>2021</b> , 13, 24	4.1	8
126	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

125	Early Changes of Irradiated Parotid Glands Evaluated by T1rho-Weighted Imaging: A Pilot Study. <i>Journal of Computer Assisted Tomography</i> , <b>2017</b> , 41, 472-476	2.2	7
124	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
123	Virtual Impedance Sliding Mode Control-Based MMC Circulating Current Suppressing Strategy. <i>IEEE Access</i> , <b>2019</b> , 7, 26229-26240	3.5	7
122	Respiratory-induced prostate motion using wavelet decomposition of the real-time electromagnetic tracking signal. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2013</b> , 87, 370-4	4	7
121	Super Capacitor Energy Storage Based MMC for Energy Harvesting in Mine Hoist Application. <i>Energies</i> , <b>2017</b> , 10, 1428	3.1	7
120	Ultrasound 2D Strain Estimator Based on Image Registration for Ultrasound Elastography. <i>Proceedings of SPIE</i> , <b>2014</b> , 9040,	1.7	7
119	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
118	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
117	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
116	Reverse blocking sub-module based modular multilevel converter with DC fault ride-through capability <b>2016</b> ,		7
115	Comprehensive understanding of DC pole-to-pole fault and its protection for modular multilevel converters. <i>High Voltage</i> , <b>2018</b> , 3, 246-254	4.1	7
114	Numerical analysis of the aerothermodynamic behavior of a Hyperloop in choked flow. <i>Energy</i> , <b>2021</b> , 237, 121427	7.9	7
113	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
112	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
111	Reverse-blocking modular multilevel converter for battery energy storage systems. <i>Journal of Modern Power Systems and Clean Energy</i> , <b>2017</b> , 5, 652-662	4	6
110	An MRI-based Attenuation Correction Method for Combined PET/MRI Applications. <i>Proceedings of SPIE</i> , <b>2009</b> , 7262,	1.7	6
109	Improving Image Quality of Cone-Beam CT Using Alternating Regression Forest. <i>Proceedings of SPIE</i> , <b>2018</b> , 10573,	1.7	6
108	Apparent diffusion coefficient histogram analysis can evaluate radiation-induced parotid damage and predict late xerostomia degree in nasopharyngeal carcinoma. <i>Oncotarget</i> , <b>2017</b> , 8, 70226-70238	3.3	6



107	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
106	Pseudo CT Estimation using Patch-based Joint Dictionary Learning. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 5150-5153	0.9	6
105	Revealing hemodynamic heterogeneity of gliomas based on signal profile features of dynamic susceptibility contrast-enhanced MRI. <i>NeuroImage: Clinical</i> , <b>2019</b> , 23, 101864	5.3	5
104	A MR-TRUS Registration Method for Ultrasound-Guided Prostate Interventions. <i>Proceedings of SPIE</i> , <b>2015</b> , 9415,	1.7	5
103	Surface Chemical Effects on Hypersonic Nonequilibrium Aeroheating in Dissociated Carbon-Dioxide Mixture. <i>Journal of Spacecraft and Rockets</i> , <b>2018</b> , 55, 687-697	1.5	5
102	Ultrasonic histogram assessment of early response to concurrent chemo-radiotherapy in patients with locally advanced cervical cancer: a feasibility study. <i>Clinical Imaging</i> , <b>2018</b> , 49, 144-149	2.7	5
101	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
100	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
99	Image quality improvement in cone-beam CT using deep learning <b>2019</b> ,		5
98	Ultrasound prostate segmentation based on 3D V-Net with deep supervision <b>2019</b> ,		5
97	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
96	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
95	Strain elastography as an early predictor of long-term prognosis in patients with locally advanced cervical cancers treated with concurrent chemoradiotherapy. <i>European Radiology</i> , <b>2020</b> , 30, 471-481	8	5
94	A Patch-based CBCT Scatter Artifact Correction Using Prior CT. <i>Proceedings of SPIE</i> , <b>2017</b> , 10132,	1.7	4
93	. <i>IEEE Transactions on Industry Applications</i> , <b>2020</b> , 1-1	4.3	4
92	A New CT Prostate Segmentation for CT-Based HDR Brachytherapy. <i>Proceedings of SPIE</i> , <b>2014</b> , 9036, 90362K	1.7	4
91	A skull segmentation method for brain MR images based on multiscale bilateral filtering scheme <b>2010</b> ,		4
90	MRI-based synthetic CT generation using deep convolutional neural network <b>2019</b> ,		4

89	Automatic MRI prostate segmentation using 3D deeply supervised FCN with concatenated atrous convolution <b>2019</b> ,		4
88	Deep attentional GAN-based high-resolution ultrasound imaging <b>2020</b> ,		4
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73	Optimization of basis material selection and energy binning in three material decomposition for spectral imaging without contrast agents in photon-counting CT <b>2020</b> ,		3
72	Organ-at-Risk (OAR) segmentation in head and neck CT using U-RCNN <b>2020</b> ,		3

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57	Low dose PET imaging with CT-aided cycle-consistent adversarial networks <b>2020</b> ,		2
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51	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
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45	Image-based Metal Artifact Reduction in X-ray Computed Tomography utilizing Local Anatomical Similarity. <i>Proceedings of SPIE</i> , <b>2017</b> , 10132,	1.7	1
44	A MRI-CT prostate registration using sparse representation technique <b>2016</b> ,		1
43	A 3D Neurovascular Bundles Segmentation Method based on MR-TRUS Deformable Registration. <i>Proceedings of SPIE</i> , <b>2015</b> , 9413,	1.7	1
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41	Learning-based automatic segmentation on arteriovenous malformations from contrast-enhanced CT images <b>2019</b> ,		1
40	Machine-learning-based classification of Glioblastoma using MRI-based radiomic features <b>2019</b> ,		1
39	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
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34	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
33	Backflow Power Optimization of DAB with Gradient Descent Algorithm Based Extended-Phase-Shift Control in EER Application <b>2019</b> ,		1
32	Improved Modular Multilevel Converter with Symmetrical Integrated Super Capacitor Energy Storage System for Electrical Energy Router Application <b>2019</b> ,		1
31	Analysis of Hybrid SiC IGBT Based Resonant Switched Capacitor Converter with Circuit Parasitics Consideration <b>2019</b> ,		1
30	Dynamic Changes of Brain Networks during Working Memory Tasks in Schizophrenia. <i>Neuroscience</i> , <b>2021</b> , 453, 187-205	3.9	1
29	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
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19	Synthetic CT-aided multiorgan segmentation for CBCT-guided adaptive pancreatic radiotherapy. <i>Medical Physics</i> , <b>2021</b> , 48, 7063-7073	4.4	0
18	. <i>IEEE Access</i> , <b>2020</b> , 8, 120146-120159	3.5	0

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10	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	
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