

Weiguo L

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.

29
papers

780
citations

12
h-index

27
g-index

36
ext. papers

1,055
ext. citations

3.6
avg, IF

4.17
L-index

#	Paper	IF	Citations
29	A general algorithm for distributed treatments of multiple brain metastases. <i>Medical Physics</i> , 2021 , 48, 1832-1838	4.4	
28	A feasibility study on deep learning-based individualized 3D dose distribution prediction. <i>Medical Physics</i> , 2021 , 48, 4438-4447	4.4	3
27	A web-based brain metastases segmentation and labeling platform for stereotactic radiosurgery. <i>Medical Physics</i> , 2020 , 47, 3263-3276	4.4	3
26	Boosting radiotherapy dose calculation accuracy with deep learning. <i>Journal of Applied Clinical Medical Physics</i> , 2020 , 21, 149-159	2.3	4
25	BIRADS features-oriented semi-supervised deep learning for breast ultrasound computer-aided diagnosis. <i>Physics in Medicine and Biology</i> , 2020 , 65, 125005	3.8	17
24	Deep learning-based inverse mapping for fluence map prediction. <i>Physics in Medicine and Biology</i> , 2020 ,	3.8	3
23	Deep learning based medical image segmentation with limited labels. <i>Physics in Medicine and Biology</i> , 2020 ,	3.8	6
22	Technical Note: A feasibility study on deep learning-based radiotherapy dose calculation. <i>Medical Physics</i> , 2020 , 47, 753-758	4.4	15
21	Novel On-line PET Imaging for Intra-Beam Range Verification and Delivery Optimization: A Simulation Feasibility Study. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2020 , 4, 212-217 ²	4.2	3
20	Robustness study of noisy annotation in deep learning based medical image segmentation. <i>Physics in Medicine and Biology</i> , 2020 , 65, 175007	3.8	10
19	A feasibility study for predicting optimal radiation therapy dose distributions of prostate cancer patients from patient anatomy using deep learning. <i>Scientific Reports</i> , 2019 , 9, 1076	4.9	97
18	Three-dimensional dose prediction for lung IMRT patients with deep neural networks: robust learning from heterogeneous beam configurations. <i>Medical Physics</i> , 2019 , 46, 3679-3691	4.4	63
17	Electron modulated arc therapy (EMAT) using photon MLC for postmastectomy chest wall treatment I: Monte Carlo-based dosimetric characterizations. <i>Physica Medica</i> , 2019 , 67, 1-8	2.7	3
16	Individualized 3D Dose Distribution Prediction Using Deep Learning. <i>Lecture Notes in Computer Science</i> , 2019 , 110-118	0.9	4
15	A recursive ensemble organ segmentation (REOS) framework: application in brain radiotherapy. <i>Physics in Medicine and Biology</i> , 2019 , 64, 025015	3.8	14
14	Flattening filter free in intensity-modulated radiotherapy (IMRT) - Theoretical modeling with delivery efficiency analysis. <i>Medical Physics</i> , 2019 , 46, 34-44	4.4	8
13	Prototype volumetric ultrasound tomography image guidance system for prone stereotactic partial breast irradiation: proof-of-concept. <i>Physics in Medicine and Biology</i> , 2018 , 63, 055004	3.8	2

12	Convolution-based modified Clarkson integration (CMCI) for electron cutout factor calculation. <i>Journal of Applied Clinical Medical Physics</i> , 2018 , 19, 128-136	2.3	1
11	A Novel Markerless Lung Tumor-Tracking Method Using Treatment MV Beam Imaging. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2525	2.6	3
10	Deep-learning based surface region selection for deep inspiration breath hold (DIBH) monitoring in left breast cancer radiotherapy. <i>Physics in Medicine and Biology</i> , 2018 , 63, 245013	3.8	0
9	Accurate real time localization tracking in a clinical environment using Bluetooth Low Energy and deep learning. <i>PLoS ONE</i> , 2018 , 13, e0205392	3.7	29
8	Mid-range probing-towards range-guided particle therapy. <i>Physics in Medicine and Biology</i> , 2018 , 63, 13N101	3.8	4
7	A deep convolutional neural network-based automatic delineation strategy for multiple brain metastases stereotactic radiosurgery. <i>PLoS ONE</i> , 2017 , 12, e0185844	3.7	71
6	Continuous leaf optimization for IMRT leaf sequencing. <i>Medical Physics</i> , 2016 , 43, 5403	4.4	6
5	Ultrafast convolution/superposition using tabulated and exponential kernels on GPU. <i>Medical Physics</i> , 2011 , 38, 1150-61	4.4	30
4	A non-voxel-based broad-beam (NVBB) framework for IMRT treatment planning. <i>Physics in Medicine and Biology</i> , 2010 , 55, 7175-210	3.8	37
3	Fluence-convolution broad-beam (FCBB) dose calculation. <i>Physics in Medicine and Biology</i> , 2010 , 55, 7211-29	3.8	18
2	Automatic re-contouring in 4D radiotherapy. <i>Physics in Medicine and Biology</i> , 2006 , 51, 1077-99	3.8	116
1	Fast free-form deformable registration via calculus of variations. <i>Physics in Medicine and Biology</i> , 2004 , 49, 3067-87	3.8	210