Yong Yang

List of Publications by Citations

30 papers	676 citations	14 h-index	26 g-index
32 ext. papers	806 ext. citations	3.2 avg, IF	3.94 L-index

#	Paper	IF	Citations
30	Evaluation of on-board kV cone beam CT (CBCT)-based dose calculation. *Physics in Medicine and Biology*, **2007**, 52, 685-705	3.8	239
29	Optimization of radiotherapy dose-time fractionation with consideration of tumor specific biology. *Medical Physics*, **2005**, 32, 3666-77	4.4	65
28	Towards biologically conformal radiation therapy (BCRT): selective IMRT dose escalation under the guidance of spatial biology distribution. *Medical Physics*, **2005**, 32, 1473-84	4.4	63
27	Clinical knowledge-based inverse treatment planning. *Physics in Medicine and Biology*, **2004**, 49, 5101-17	3.8	38
26	Quantitative measurement of MLC leaf displacements using an electronic portal image device. *Physics in Medicine and Biology*, **2004**, 49, 1521-33	3.8	36
25	A three-source model for the calculation of head scatter factors. *Medical Physics*, **2002**, 29, 2024-33	4.4	31
24	Inverse treatment planning with adaptively evolving voxel-dependent penalty scheme. *Medical Physics*, **2004**, 31, 2839-44	4.4	29
23	Dosimetric features-driven machine learning model for DVH prediction in VMAT treatment planning. *Medical Physics*, **2019**, 46, 857-867	4.4	26
22	Markerless Pancreatic Tumor Target Localization Enabled By Deep Learning. *International Journal of Radiation Oncology Biology Physics*, **2019**, 105, 432-439	4	23
21	Incorporating dosimetric features into the prediction of 3D VMAT dose distributions using deep convolutional neural network. *Physics in Medicine and Biology*, **2019**, 64, 125017	3.8	19
20	Incorporating leaf transmission and head scatter corrections into step-and-shoot leaf sequences for IMRT. *International Journal of Radiation Oncology Biology Physics*, **2003**, 55, 1121-34	4	18
19	Incorporating imaging information from deep neural network layers into image guided radiation therapy (IGRT). *Radiotherapy and Oncology*, **2019**, 140, 167-174	5.3	16
18	A unified material decomposition framework for quantitative dual- and triple-energy CT imaging. *Medical Physics*, **2018**, 45, 2964-2977	4.4	14
17	Using the volumetric effect of a finite-sized detector for routine quality assurance of multileaf collimator leaf positioning. *Medical Physics*, **2003**, 30, 433-41	4.4	14
16	Dose distribution prediction in isodose feature-preserving voxelization domain using deep convolutional neural network. *Medical Physics*, **2019**, 46, 2978-2987	4.4	13
15	Optimizing efficiency and safety in external beam radiotherapy using automated plan check (APC) tool and six sigma methodology. *Journal of Applied Clinical Medical Physics*, **2019**, 20, 56-64	2.3	8
14	Data-driven dose calculation algorithm based on deep U-Net. *Physics in Medicine and Biology*, **2020**, 65, 245035	3.8	7

List of Publications

13	Beam data modeling of linear accelerators (linacs) through machine learning and its potential applications in fast and robust linac commissioning and quality assurance. *Radiotherapy and Oncology*, **2020**, 153, 122-129	5.3	6
12	Cumulative dose of radiation therapy of hepatocellular carcinoma patients and its deterministic relation to radiation-induced liver disease. *Medical Dosimetry*, **2018**, 43, 258-266	1.3	4
11	Automated multi-parameter high-dose-rate brachytherapy quality assurance via radioluminescence imaging. *Physics in Medicine and Biology*, **2020**, 65, 225005	3.8	2
10	Deep learning-augmented radiotherapy visualization with a cylindrical radioluminescence system. *Physics in Medicine and Biology*, **2021**, 66, 045014	3.8	2
9	The Stanford VMAT TBI Technique.. *Practical Radiation Oncology*, **2022**,	2.8	2
8	Independent verification of brachytherapy treatment plan by using deep learning inference modeling. *Physics in Medicine and Biology*, **2021**, 66,	3.8	1
7	Fully automated noncoplanar radiation therapy treatment planning. *Medical Physics*, **2021**, 48, 7439-7449	4.4	0
6	Deep learning-enabled EPID-based 3D dosimetry for dose verification of step-and-shoot radiotherapy. *Medical Physics*, **2021**, 48, 6810-6819	4.4	0
5	4D VMAT planning and verification technique for dynamic tracking using a direct aperture deformation (DAD) method. *Journal of Applied Clinical Medical Physics*, **2017**, 18, 50-61	2.3	
4	Feasibility of optimizing intensity-modulated radiation therapy plans based on measured mucosal dose adjacent to dental fillings and toxicity outcomes. *Journal of Applied Clinical Medical Physics*, **2018**, 19, 444-452	2.3	
3	Factor 10 Expedience of Monthly Linac Quality Assurance via an Ion Chamber Array and Automation Scripts. *Technology in Cancer Research and Treatment*, **2019**, 18, 1533033819876897	2.7	
2	Deep learning-augmented radioluminescence imaging for radiotherapy dose verification. *Medical Physics*, **2021**, 48, 6820-6831	4.4	
1	Dose Prediction for Cervical Cancer Brachytherapy Using 3D Deep Convolutional Neural Network. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2021**, 1-1	4.2	