

# Yong Yang

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

920  
citations

516710

16  
h-index

454955

30  
g-index

32  
all docs

32  
docs citations

32  
times ranked

875  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dose Prediction for Cervical Cancer Brachytherapy Using 3-D Deep Convolutional Neural Network. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 214-221.	3.7	2
2	The Stanford Volumetric Modulated Arc Therapy Total Body Irradiation Technique. Practical Radiation Oncology, 2022, 12, 245-258.	2.1	13
3	Meta-optimization for fully automated radiation therapy treatment planning. Physics in Medicine and Biology, 2022, 67, 055011.	3.0	4
4	Implicit neural representation for radiation therapy dose distribution. Physics in Medicine and Biology, 2022, 67, 125014.	3.0	7
5	Deep learning-augmented radiotherapy visualization with a cylindrical radioluminescence system. Physics in Medicine and Biology, 2021, 66, 045014.	3.0	2
6	Independent verification of brachytherapy treatment plan by using deep learning inference modeling. Physics in Medicine and Biology, 2021, 66, 125014.	3.0	7
7	Deep learning-augmented radioluminescence imaging for radiotherapy dose verification. Medical Physics, 2021, 48, 6820-6831.	3.0	4
8	Fully automated noncoplanar radiation therapy treatment planning. Medical Physics, 2021, 48, 7439-7449.	3.0	5
9	Deep learning-enabled EPID-based 3D dosimetry for dose verification of step-and-shoot radiotherapy. Medical Physics, 2021, 48, 6810-6819.	3.0	4
10	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.	0.6	14
11	Automated multi-parameter high-dose-rate brachytherapy quality assurance via radioluminescence imaging. Physics in Medicine and Biology, 2020, 65, 225005.	3.0	7
12	Data-driven dose calculation algorithm based on deep U-Net. Physics in Medicine and Biology, 2020, 65, 245035.	3.0	22
13	Incorporating imaging information from deep neural network layers into image guided radiation therapy (IGRT). Radiotherapy and Oncology, 2019, 140, 167-174.	0.6	28
14	Markerless Pancreatic Tumor Target Localization Enabled By Deep Learning. International Journal of Radiation Oncology Biology Physics, 2019, 105, 432-439.	0.8	49
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.	1.9	16
16	Dose distribution prediction in isodose feature-preserving voxelization domain using deep convolutional neural network. Medical Physics, 2019, 46, 2978-2987.	3.0	27
17	Incorporating dosimetric features into the prediction of 3D VMAT dose distributions using deep convolutional neural network. Physics in Medicine and Biology, 2019, 64, 125017.	3.0	35
18	Factor 10 Expedience of Monthly Linac Quality Assurance via an Ion Chamber Array and Automation Scripts. Technology in Cancer Research and Treatment, 2019, 18, 153303381987689.	1.9	5

#	ARTICLE	IF	CITATIONS
19	Dosimetric features-driven machine learning model for DVH prediction in VMAT treatment planning. Medical Physics, 2019, 46, 857-867.	3.0	34
20	A unified material decomposition framework for quantitative dual- and triple-energy CT imaging. Medical Physics, 2018, 45, 2964-2977.	3.0	19
21	Cumulative dose of radiation therapy of hepatocellular carcinoma patients and its deterministic relation to radiation-induced liver disease. Medical Dosimetry, 2018, 43, 258-266.	0.9	5
22	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.	1.9	0
23	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.	1.9	0
24	Evaluation of on-board kV cone beam CT (CBCT)-based dose calculation. Physics in Medicine and Biology, 2007, 52, 685-705.	3.0	270
25	Towards biologically conformal radiation therapy (BCRT): Selective IMRT dose escalation under the guidance of spatial biology distribution. Medical Physics, 2005, 32, 1473-1484.	3.0	73
26	Optimization of radiotherapy dose-time fractionation with consideration of tumor specific biology. Medical Physics, 2005, 32, 3666-3677.	3.0	76
27	Quantitative measurement of MLC leaf displacements using an electronic portal image device. Physics in Medicine and Biology, 2004, 49, 1521-1533.	3.0	42
28	Clinical knowledge-based inverse treatment planning. Physics in Medicine and Biology, 2004, 49, 5101-5117.	3.0	41
29	Inverse treatment planning with adaptively evolving voxel-dependent penalty scheme. Medical Physics, 2004, 31, 2839-2844.	3.0	36
30	Incorporating leaf transmission and head scatter corrections into step-and-shoot leaf sequences for IMRT. International Journal of Radiation Oncology Biology Physics, 2003, 55, 1121-1134.	0.8	19
31	Using the volumetric effect of a finite-sized detector for routine quality assurance of multileaf collimator leaf positioning. Medical Physics, 2003, 30, 433-441.	3.0	17
32	A three-source model for the calculation of head scatter factors. Medical Physics, 2002, 29, 2024-2033.	3.0	37