

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	Evaluation of on-board kV cone beam CT (CBCT)-based dose calculation. <i>Physics in Medicine and Biology</i> , 2007, 52, 685-705.	3.0	270
2	Optimization of radiotherapy doseâ€¦time fractionation with consideration of tumor specific biology. <i>Medical Physics</i> , 2005, 32, 3666-3677.	3.0	76
3	Towards biologically conformal radiation therapy (BCRT): Selective IMRT dose escalation under the guidance of spatial biology distribution. <i>Medical Physics</i> , 2005, 32, 1473-1484.	3.0	73
4	Markerless Pancreatic Tumor Target Localization Enabled By Deep Learning. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 105, 432-439.	0.8	49
5	Quantitative measurement of MLC leaf displacements using an electronic portal image device. <i>Physics in Medicine and Biology</i> , 2004, 49, 1521-1533.	3.0	42
6	Clinical knowledge-based inverse treatment planning. <i>Physics in Medicine and Biology</i> , 2004, 49, 5101-5117.	3.0	41
7	A three-source model for the calculation of head scatter factors. <i>Medical Physics</i> , 2002, 29, 2024-2033.	3.0	37
8	Inverse treatment planning with adaptively evolving voxel-dependent penalty scheme. <i>Medical Physics</i> , 2004, 31, 2839-2844.	3.0	36
9	Incorporating dosimetric features into the prediction of 3D VMAT dose distributions using deep convolutional neural network. <i>Physics in Medicine and Biology</i> , 2019, 64, 125017.	3.0	35
10	Dosimetric featuresâ€¦driven machine learning model for DVH prediction in VMAT treatment planning. <i>Medical Physics</i> , 2019, 46, 857-867.	3.0	34
11	Incorporating imaging information from deep neural network layers into image guided radiation therapy (IGRT). <i>Radiotherapy and Oncology</i> , 2019, 140, 167-174.	0.6	28
12	Dose distribution prediction in isodose featureâ€¦preserving voxelization domain using deep convolutional neural network. <i>Medical Physics</i> , 2019, 46, 2978-2987.	3.0	27
13	Data-driven dose calculation algorithm based on deep U-Net. <i>Physics in Medicine and Biology</i> , 2020, 65, 245035.	3.0	22
14	Incorporating leaf transmission and head scatter corrections into step-and-shoot leaf sequences for IMRT. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003, 55, 1121-1134.	0.8	19
15	A unified material decomposition framework for quantitative dualâ€¦and tripleâ€¦energy CT imaging. <i>Medical Physics</i> , 2018, 45, 2964-2977.	3.0	19
16	Using the volumetric effect of a finite-sized detector for routine quality assurance of multileaf collimator leaf positioning. <i>Medical Physics</i> , 2003, 30, 433-441.	3.0	17
17	Optimizing efficiency and safety in external beam radiotherapy using automated plan check (APC) tool and six sigma methodology. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 56-64.	1.9	16
18	Beam data modeling of linear accelerators (linacs) through machine learning and its potential applications in fast and robust linac commissioning and quality assurance. <i>Radiotherapy and Oncology</i> , 2020, 153, 122-129.	0.6	14

#	ARTICLE	IF	CITATIONS
19	The Stanford Volumetric Modulated Arc Therapy Total Body Irradiation Technique. <i>Practical Radiation Oncology</i> , 2022, 12, 245-258.	2.1	13
20	Independent verification of brachytherapy treatment plan by using deep learning inference modeling. <i>Physics in Medicine and Biology</i> , 2021, 66, 125014.	3.0	7
21	Automated multi-parameter high-dose-rate brachytherapy quality assurance via radioluminescence imaging. <i>Physics in Medicine and Biology</i> , 2020, 65, 225005.	3.0	7
22	Implicit neural representation for radiation therapy dose distribution. <i>Physics in Medicine and Biology</i> , 2022, 67, 125014.	3.0	7
23	Cumulative dose of radiation therapy of hepatocellular carcinoma patients and its deterministic relation to radiation-induced liver disease. <i>Medical Dosimetry</i> , 2018, 43, 258-266.	0.9	5
24	Factor 10 Expedience of Monthly Linac Quality Assurance via an Ion Chamber Array and Automation Scripts. <i>Technology in Cancer Research and Treatment</i> , 2019, 18, 153303381987689.	1.9	5
25	Fully automated noncoplanar radiation therapy treatment planning. <i>Medical Physics</i> , 2021, 48, 7439-7449.	3.0	5
26	Deep learning-augmented radioluminescence imaging for radiotherapy dose verification. <i>Medical Physics</i> , 2021, 48, 6820-6831.	3.0	4
27	Deep learning-enabled EPID-based 3D dosimetry for dose verification of step-and-shoot radiotherapy. <i>Medical Physics</i> , 2021, 48, 6810-6819.	3.0	4
28	Meta-optimization for fully automated radiation therapy treatment planning. <i>Physics in Medicine and Biology</i> , 2022, 67, 055011.	3.0	4
29	Deep learning-augmented radiotherapy visualization with a cylindrical radioluminescence system. <i>Physics in Medicine and Biology</i> , 2021, 66, 045014.	3.0	2
30	Dose Prediction for Cervical Cancer Brachytherapy Using 3-D Deep Convolutional Neural Network. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2022, 6, 214-221.	3.7	2
31	4D VMAT planning and verification technique for dynamic tracking using a direct aperture deformation (DAD) method. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 50-61.	1.9	0
32	Feasibility of optimizing intensity-modulated radiation therapy plans based on measured mucosal dose adjacent to dental fillings and toxicity outcomes. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 444-452.	1.9	0