Qiuwen Wu

List of Publications by Year in descending order

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62 papers	2,497 citations	257450 24 h-index	197818 49 g-index
62 all docs	62 docs citations	62 times ranked	1880 citing authors

#	Article	IF	Citations
1	Optimization of intensity-modulated radiotherapy plans based on the equivalent uniform dose. International Journal of Radiation Oncology Biology Physics, 2002, 52, 224-235.	0.8	342
2	Simultaneous integrated boost intensity-modulated radiotherapy for locally advanced head-and-neck squamous cell carcinomas. I: dosimetric results. International Journal of Radiation Oncology Biology Physics, 2003, 56, 573-585.	0.8	263
3	Algorithms and functionality of an intensity modulated radiotherapy optimization system. Medical Physics, 2000, 27, 701-711.	3.0	221
4	Adaptive Replanning Strategies Accounting for Shrinkage in Head and Neck IMRT. International Journal of Radiation Oncology Biology Physics, 2009, 75, 924-932.	0.8	215
5	The impact of fluctuations in intensity patterns on the number of monitor units and the quality and accuracy of intensity modulated radiotherapy. Medical Physics, 2000, 27, 1226-1237.	3.0	132
6	Commissioning and dosimetric characteristics of TrueBeam system: Composite data of three TrueBeam machines. Medical Physics, 2012, 39, 6981-7018.	3.0	102
7	Effect of patient setup errors on simultaneously integrated boost head and neck IMRT treatment plans. International Journal of Radiation Oncology Biology Physics, 2005, 63, 422-433.	0.8	80
8	Geometric and dosimetric evaluations of an online image-guidance strategy for 3D-CRT of prostate cancer. International Journal of Radiation Oncology Biology Physics, 2006, 64, 1596-1609.	0.8	74
9	Multiple local minima in IMRT optimization based on dose-volume criteria. Medical Physics, 2002, 29, 1514-1527.	3.0	71
10	Adaptive Radiation Therapy. Cancer Journal (Sudbury, Mass), 2011, 17, 182-189.	2.0	70
11	Application of dose compensation in image-guided radiotherapy of prostate cancer. Physics in Medicine and Biology, 2006, 51, 1405-1419.	3.0	69
12	Intensity-modulated radiotherapy optimization with gEUD-guided doseÂvolume objectives. Physics in Medicine and Biology, 2003, 48, 279-291.	3.0	59
13	The Role of Seminal Vesicle Motion in Target Margin Assessment for Online Image-Guided Radiotherapy for Prostate Cancer. International Journal of Radiation Oncology Biology Physics, 2009, 73, 935-943.	0.8	59
14	Inferences About Prostate Intrafraction Motion From Pre- and Posttreatment Volumetric Imaging. International Journal of Radiation Oncology Biology Physics, 2009, 75, 260-267.	0.8	50
15	Comparisons of volumetric modulated arc therapy (VMAT) quality assurance (QA) systems: sensitivity analysis to machine errors. Radiation Oncology, 2016, 11, 146.	2.7	45
16	Dosimetric Effect of Intrafraction Motion and Residual Setup Error for Hypofractionated Prostate Intensity-Modulated Radiotherapy With Online Cone Beam Computed Tomography Image Guidance. International Journal of Radiation Oncology Biology Physics, 2011, 80, 453-461.	0.8	43
17	Prostate intrafraction motion evaluation using kV fluoroscopy during treatment delivery: A feasibility and accuracy study. Medical Physics, 2008, 35, 1793-1806.	3.0	42
18	Dose sculpting with generalized equivalent uniform dose. Medical Physics, 2005, 32, 1387-1396.	3.0	40

#	Article	IF	Citations
19	Prostate Intrafraction Motion Assessed by Simultaneous Kilovoltage Fluoroscopy at Megavoltage Delivery I: Clinical Observations and Pattern Analysis. International Journal of Radiation Oncology Biology Physics, 2010, 78, 1563-1570.	0.8	40
20	A novel technique for VMAT QA with EPID in cine mode on a Varian TrueBeam linac. Physics in Medicine and Biology, 2013, 58, 6683-6700.	3.0	37
21	Evaluation of the Accuracy of a 3D Surface Imaging System for Patient Setup in Head and Neck Cancer Radiotherapy. International Journal of Radiation Oncology Biology Physics, 2012, 84, 547-552.	0.8	34
22	Fluence Map Prediction Using Deep Learning Models â€“ Direct Plan Generation for Pancreas Stereotactic Body Radiation Therapy. Frontiers in Artificial Intelligence, 2020, 3, 68.	3.4	29
23	A hybrid strategy of offline adaptive planning and online image guidance for prostate cancer radiotherapy. Physics in Medicine and Biology, 2010, 55, 2221-2234.	3.0	28
24	Prostate Intrafraction Motion Assessed by Simultaneous kV Fluoroscopy at MV Delivery II: Adaptive Strategies. International Journal of Radiation Oncology Biology Physics, 2010, 78, 1323-1330.	0.8	27
25	A Monte Carlo simulation framework for electron beam dose calculations using Varian phase space files for TrueBeam Linacs. Medical Physics, 2015, 42, 2389-2403.	3.0	24
26	An Interpretable Planning Bot for Pancreas Stereotactic Body Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2021, 109, 1076-1085.	0.8	21
27	Independent verification of gantry angle for pre-treatment VMAT QA using EPID. Physics in Medicine and Biology, 2012, 57, 6587-6600.	3.0	19
28	A â€œrolling averageâ€•multiple adaptive planning method to compensate for target volume changes in imageâ€guided radiotherapy of prostate cancer. Journal of Applied Clinical Medical Physics, 2012, 13, 124-137.	1.9	19
29	An artificial intelligenceâ€driven agent for realâ€time headâ€andâ€neck IMRT plan generation using conditional generative adversarial network (cGAN). Medical Physics, 2021, 48, 2714-2723.	3.0	19
30	Evaluations of an adaptive planning technique incorporating dose feedback in imageâ€guided radiotherapy of prostate cancer. Medical Physics, 2011, 38, 6362-6370.	3.0	18
31	Dynamic electron arc radiotherapy (DEAR): a feasibility study. Physics in Medicine and Biology, 2014, 59, 327-345.	3.0	18
32	Convolutional Neural Network (CNN) Based Three Dimensional Tumor Localization Using Single X-Ray Projection. IEEE Access, 2019, 7, 37026-37038.	4.2	17
33	Dosimetric and geometric evaluation of a hybrid strategy of offline adaptive planning and online image guidance for prostate cancer radiotherapy. Physics in Medicine and Biology, 2011, 56, 5045-5062.	3.0	16
34	Real-time tumor localization with single x-ray projection at arbitrary gantry angles using a convolutional neural network (CNN). Physics in Medicine and Biology, 2020, 65, 065012.	3.0	16
35	Deep Learningâ€“Based Fluence Map Prediction for Pancreas Stereotactic Body Radiation Therapy With Simultaneous Integrated Boost. Advances in Radiation Oncology, 2021, 6, 100672.	1.2	16
36	A fast dose calculation method based on table lookup for IMRT optimization. Physics in Medicine and Biology, 2003, 48, N159-N166.	3.0	14

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37	Parameter optimization in HNâ€IMRT for Elekta linacs. Journal of Applied Clinical Medical Physics, 2009, 10, 43-61.	1.9	12
38	Knowledge-Based Tradeoff Hyperplanes for Head and Neck Treatment Planning. International Journal of Radiation Oncology Biology Physics, 2020, 106, 1095-1103.	0.8	11
39	Effect of the first day correction on systematic setup error reduction. Medical Physics, 2007, 34, 1789-1796.	3.0	9
40	Artificial intelligence applications in intensity modulated radiation treatment planning: an overview. Quantitative Imaging in Medicine and Surgery, 2021, 11, 4859-4880.	2.0	9
41	Online adaptive planning for prostate cancer radiotherapy is necessary and ready now. Medical Physics, 2014, 41, 080601.	3.0	8
42	Observation of different tumor motion magnitude within liver and estimate of internal motion margins in postoperative patients with hepatocellular carcinoma. Cancer Management and Research, 2017, Volume 9, 839-848.	1.9	8
43	Validation of the dosimetry of total skin irradiation techniques by Monte Carlo simulation. Journal of Applied Clinical Medical Physics, 2020, 21, 107-119.	1.9	8
44	IMRT optimization based on the generalized equivalent uniform dose (EUD). , 0, , .		6
45	A patient-independent CT intensity matching method using conditional generative adversarial networks (cGAN) for single x-ray projection-based tumor localization. Physics in Medicine and Biology, 2020, 65, 145009.	3.0	6
46	Dosimetric assessment of rigid setup error by CBCT for HNâ€IMRT. Journal of Applied Clinical Medical Physics, 2010, 11, 38-53.	1.9	5
47	A pencil beam dose calculation model for CyberKnife system. Medical Physics, 2016, 43, 5380-5391.	3.0	5
48	Transfer learning for fluence map prediction in adrenal stereotactic body radiation therapy. Physics in Medicine and Biology, 2021, 66, .	3.0	5
49	Knowledge Models as Teaching Aid for Training Intensity Modulated Radiation Therapy Planning: A Lung Cancer Case Study. Frontiers in Artificial Intelligence, 2020, 3, 66.	3.4	3
50	A singular value decomposition linear programming (SVDLP) optimization technique for circular cone based robotic radiotherapy. Physics in Medicine and Biology, 2018, 63, 015034.	3.0	2
51	Recumbent Total Skin Electron Beam Therapy. Advances in Radiation Oncology, 2021, 6, 100698.	1.2	2
52	A dose calculation method including scatter for IMRT optimization. Physics in Medicine and Biology, 2004, 49, 4611-4621.	3.0	1
53	In modern linacs monitor units should be defined in water at 10Âcm depth rather than at d_{max}. Medical Physics, 2018, 45, 4789-4792.	3.0	1
54	Nonuniform Planning Target Volume Margins for Prostate Bed on the Basis of Surgical Clips on Daily Cone Beam Computed Tomography. Advances in Radiation Oncology, 2019, 4, 186-190.	1.2	1

#	Article	IF	Citations
55	Technical Note: A dose calculation framework for dynamic electron arc radiotherapy (DEAR) using VirtuaLinac Monte Carlo simulation tool. Medical Physics, 2020, 47, 164-170.	3.0	1
56	Assessing the robustness of artificial intelligence powered planning tools in radiotherapy clinical settingsâ€"a phantom simulation approach. Quantitative Imaging in Medicine and Surgery, 2021, 11, 0-0.	2.0	1
57	Technical note: A fast and accurate analytical dose calculation algorithm for ¹²⁵I seedâ€loaded stent applications. Medical Physics, 2021, 48, 7493-7503.	3.0	1
58	Introducing matrix sparsity with kernel truncation into dose calculations for fluence optimization. Biomedical Physics and Engineering Express, 2022, 8, 017001.	1.2	1
59	Insights of an AI agent via analysis of prediction errors: a case study of fluence map prediction for radiation therapy planning. Physics in Medicine and Biology, 2021, 66, 23NT01.	3.0	1
60	Applying pytorch toolkit to plan optimization for circular cone based robotic radiotherapy. Radiation Oncology, 2022, 17, 82.	2.7	1
61	Two Photon Dose Engines for Accurate and Fast Volumetric Modulated Arc Therapy. , 2019, , .		0
62	Investigation of effect of filter on the standâ€up technique for total skin irradiation by Monte Carlo simulation. Journal of Applied Clinical Medical Physics, 2021, 22, 137-145.	1.9	0