Qingrong Wu

List of Publications by Year
in descending order

46 papers	1,569 citations	489802 18 h-index	388640 36 g-index
46 all docs	46 docs citations	46 times ranked	1390 citing authors

#	Article	IF	Citations
1	Introducing matrix sparsity with kernel truncation into dose calculations for fluence optimization. Biomedical Physics and Engineering Express, 2022, 8, 017001.	0.6	1
2	Radiation Therapy for Rectal Cancer: Executive Summary of an ASTRO Clinical Practice Guideline. Practical Radiation Oncology, 2021, 11, 13-25.	1.1	67
3	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.	1.1	1
4	Artificial intelligence applications in intensity modulated radiation treatment planning: an overview. Quantitative Imaging in Medicine and Surgery, 2021, 11, 4859-4880.	1.1	9
5	A data-driven approach to optimal beam/arc angle selection for liver stereotactic body radiation therapy treatment planning. Quantitative Imaging in Medicine and Surgery, 2021, 11, 0-0.	1.1	0
6	Clinical Experience With Machine Learning-Based Automated Treatment Planning for Whole Breast Radiation Therapy. Advances in Radiation Oncology, 2021, 6, 100656.	0.6	1
7	An Interpretable Planning Bot for Pancreas Stereotactic Body Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2021, 109, 1076-1085.	0.4	21
8	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.	1.6	19
9	Deep Learningâ€"Based Fluence Map Prediction for Pancreas Stereotactic Body Radiation Therapy With Simultaneous Integrated Boost. Advances in Radiation Oncology, 2021, 6, 100672.	0.6	16
10	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.	1.6	1
11	Transfer learning for fluence map prediction in adrenal stereotactic body radiation therapy. Physics in Medicine and Biology, 2021, 66, .	1.6	5
12	Fluence Map Prediction Using Deep Learning Models â€" Direct Plan Generation for Pancreas Stereotactic Body Radiation Therapy. Frontiers in Artificial Intelligence, 2020, 3, 68.	2.0	29
13	Knowledge Models as Teaching Aid for Training Intensity Modulated Radiation Therapy Planning: A Lung Cancer Case Study. Frontiers in Artificial Intelligence, 2020, 3, 66.	2.0	3
14	Knowledge-Based Tradeoff Hyperplanes for Head and Neck Treatment Planning. International Journal of Radiation Oncology Biology Physics, 2020, 106, 1095-1103.	0.4	11
15	Knowledge-Based Statistical Inference Method for Plan Quality Quantification. Technology in Cancer Research and Treatment, 2019, 18, 153303381985775.	0.8	10
16	Goal-Driven Beam Setting Optimization for Whole-Breast Radiation Therapy. Technology in Cancer Research and Treatment, 2019, 18, 153303381985866.	0.8	7
17	Three IMRT advanced planning tools: A multiâ€institutional sideâ€byâ€side comparison. Journal of Applied Clinical Medical Physics, 2019, 20, 65-77.	0.8	6
18	Automatic Planning of Whole Breast Radiation Therapy Using Machine Learning Models. Frontiers in Oncology, 2019, 9, 750.	1.3	22

#	Article	IF	Citations
19	A Collimator Setting Optimization Algorithm for Dual-Arc Volumetric Modulated Arc Therapy in Pancreas Stereotactic Body Radiation Therapy. Technology in Cancer Research and Treatment, 2019, 18, 153303381987076.	0.8	2
20	Modeling of multiple planning target volumes for head and neck treatments in knowledgeâ€based treatment planning. Medical Physics, 2019, 46, 3812-3822.	1.6	15
21	Knowledgeâ€based planning for intensityâ€modulated radiation therapy: A review of dataâ€driven approaches. Medical Physics, 2019, 46, 2760-2775.	1.6	140
22	Dose Prediction for Prostate Radiation Treatment: Feasibility of a Distance-Based Deep Learning Model. , 2019, , .		4
23	Incorporating Case-Based Reasoning for Radiation Therapy Knowledge Modeling: A Pelvic Case Study. Technology in Cancer Research and Treatment, 2019, 18, 153303381987478.	0.8	2
24	Improving Quality and Consistency in NRGÂOncology Radiation Therapy Oncology GroupÂ0631 for Spine Radiosurgery via Knowledge-Based Planning. International Journal of Radiation Oncology Biology Physics, 2018, 100, 1067-1074.	0.4	35
25	Machine learning and modeling: Data, validation, communication challenges. Medical Physics, 2018, 45, e834-e840.	1.6	67
26	Lung IMRT planning with automatic determination of beam angle configurations. Physics in Medicine and Biology, 2018, 63, 135024.	1.6	10
27	An Ensemble Approach to Knowledge-Based Intensity-Modulated Radiation Therapy Planning. Frontiers in Oncology, 2018, 8, 57.	1.3	30
28	Exploring the Margin Recipe for Online Adaptive Radiation Therapy for Intermediate-Risk Prostate Cancer: An Intrafractional Seminal Vesicles Motion Analysis. International Journal of Radiation Oncology Biology Physics, 2017, 98, 473-480.	0.4	26
29	SU-F-T-341: Generate Clinical Acceptable Trade-Off Options in Brain IMRT Planning by Local Multi-Criteria Optimization (MCO) Method. Medical Physics, 2016, 43, 3541-3541.	1.6	0
30	Atlas-guided prostate intensity modulated radiation therapy (IMRT) planning. Physics in Medicine and Biology, 2015, 60, 7277-7291.	1.6	21
31	Standardized beam bouquets for lung IMRT planning. Physics in Medicine and Biology, 2015, 60, 1831-1843.	1.6	20
32	Incorporating singleâ€side sparing in models for predicting parotid dose sparing in head and neck IMRT. Medical Physics, 2014, 41, 021728.	1.6	22
33	Single Institutionâ€™s Dosimetry and IGRT Analysis of Prostate SBRT. Radiation Oncology, 2013, 8, 215.	1.2	18
34	A Knowledge-Based Approach to Improving and Homogenizing Intensity Modulated Radiation Therapy Planning Quality Among Treatment Centers: An Example Application to Prostate Cancer Planning. International Journal of Radiation Oncology Biology Physics, 2013, 87, 176-181.	0.4	191
35	SU-E-CAMPUS-T-05: Quality Evaluation of An Automatic VMAT Planning Method for Head and Neck Cancer Cases. Medical Physics, 2013, 40, 380-380.	1.6	0
36	TH-C-137-08: Dosimetric Quality of An Automatic IMRT Planning Method for Head and Neck Cancer Cases. Medical Physics, 2013, 40, 534-534.	1.6	0

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37	SU-E-T-707: Evaluation of the Quality of Organs-At-Risk Dose Sparing in Anorectal and Prostate IMRT Plans. Medical Physics, 2013, 40, 369-369.	1.6	0
38	Quantitative analysis of the factors which affect the interpatient organâ€atâ€risk dose sparing variation in IMRT plans. Medical Physics, 2012, 39, 6868-6878.	1.6	227
39	MO-D-BRB-10: Modeling Inter-Patient Variation of Organ-At-Risk Sparing in IMRT Plans: An Evidence-Based Plan Quality Evaluation. Medical Physics, 2012, 39, 3868-3868.	1.6	0
40	SU-E-T-626: Individualized Trade-Off of Dose Coverage and Sparing in IMRT Planning. Medical Physics, 2012, 39, 3850-3850.	1.6	0
41	A planning quality evaluation tool for prostate adaptive IMRT based on machine learning. Medical Physics, 2011, 38, 719-726.	1.6	274
42	Response to â€œComment on â€˜A planning quality evaluation tool for prostate adaptive IMRT based on machine learningâ€™â€‰â€•[Med. Phys. 38, 719 (2011)]. Medical Physics, 2011, 38, 2821-2821.	1.6	8
43	Digital Tomosynthesis for Respiratory Gated Liver Treatment: Clinical Feasibility for Daily Image Guidance. International Journal of Radiation Oncology Biology Physics, 2011, 79, 289-296.	0.4	8
44	Volumetric Arc Intensityâ€“Modulated Therapy for Spine Body Radiotherapy: Comparison With Static Intensity-Modulated Treatment. International Journal of Radiation Oncology Biology Physics, 2009, 75, 1596-1604.	0.4	117
45	Impact of collimator leaf width and treatment technique on stereotactic radiosurgery and radiotherapy plans for intra- and extracranial lesions. Radiation Oncology, 2009, 4, 3.	1.2	67
46	On-Board Patient Positioning for Head-and-Neck IMRT: Comparing Digital Tomosynthesis to Kilovoltage Radiography and Cone-Beam Computed Tomography. International Journal of Radiation Oncology Biology Physics, 2007, 69, 598-606.	0.4	36