Jiazhou Wang

List of Publications by Year
in descending order

49 papers	1,268 citations	516215 16 h-index	395343 33 g-index
49 all docs	49 docs citations	49 times ranked	1882 citing authors

#	Article	IF	Citations
1	Automatic treatment planning based on threeâ€dimensional dose distribution predicted from deep learning technique. Medical Physics, 2019, 46, 370-381.	1.6	229
2	Testâ€“Retest Data for Radiomics Feature Stability Analysis: Generalizable or Study-Specific?. Tomography, 2016, 2, 361-365.	0.8	135
3	Distributed learning on 20 000+ lung cancer patients â€“ The Personal Health Train. Radiotherapy and Oncology, 2020, 144, 189-200.	0.3	97
4	Technical Note: A deep learningâ€based autosegmentation of rectal tumors in <scp>MR</scp> images. Medical Physics, 2018, 45, 2560-2564.	1.6	78
5	Dosimetric impact of different bladder and rectum filling during prostate cancer radiotherapy. Radiation Oncology, 2016, 11, 103.	1.2	60
6	Reproducibility with repeat CT in radiomics study for rectal cancer. Oncotarget, 2016, 7, 71440-71446.	0.8	56
7	Radiomic features of pretreatment MRI could identify T stage in patients with rectal cancer: Preliminary findings. Journal of Magnetic Resonance Imaging, 2018, 48, 615-621.	1.9	54
8	Iterative dataset optimization in automated planning: Implementation for breast and rectal cancer radiotherapy. Medical Physics, 2017, 44, 2515-2531.	1.6	34
9	A Preliminary Experience of Implementing Deep-Learning Based Auto-Segmentation in Head and Neck Cancer: A Study on Real-World Clinical Cases. Frontiers in Oncology, 2021, 11, 638197.	1.3	34
10	The impact of training sample size on deep learning-based organ auto-segmentation for head-and-neck patients. Physics in Medicine and Biology, 2021, 66, 185012.	1.6	33
11	Dosimetric comparisons of VMAT, IMRT and 3DCRT for locally advanced rectal cancer with simultaneous integrated boost. Oncotarget, 2016, 7, 6345-6351.	0.8	31
12	MRI-based radiomics signature is a quantitative prognostic biomarker for nasopharyngeal carcinoma. Scientific Reports, 2019, 9, 10412.	1.6	30
13	Radiomics features on radiotherapy treatment planning CT can predict patient survival in locally advanced rectal cancer patients. Scientific Reports, 2019, 9, 15346.	1.6	29
14	Radiation-Induced Liver Injury in Three-Dimensional Conformal Radiation Therapy (3D-CRT) for Postoperative or Locoregional Recurrent Gastric Cancer: Risk Factors and Dose Limitations. PLoS ONE, 2015, 10, e0136288.	1.1	22
15	Data-driven dose calculation algorithm based on deep U-Net. Physics in Medicine and Biology, 2020, 65, 245035.	1.6	22
16	Development and validation of a model for temporal lobe necrosis for nasopharyngeal carcinoma patients with intensity modulated radiation therapy. Radiation Oncology, 2019, 14, 42.	1.2	19
17	Automatic T Staging Using Weakly Supervised Deep Learning for Nasopharyngeal Carcinoma on <scp>MR</scp> Images. Journal of Magnetic Resonance Imaging, 2020, 52, 1074-1082.	1.9	18
18	Deep Learning for Differentiating Benign From Malignant Parotid Lesions on MR Images. Frontiers in Oncology, 2021, 11, 632104.	1.3	18

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19	Assessment of a Radiomic Signature Developed in a General NSCLC Cohort for Predicting Overall Survival of ALK-Positive Patients With Different Treatment Types. Clinical Lung Cancer, 2019, 20, e638-e651.	1.1	17
20	Application of radiomics signature captured from pretreatment thoracic CT to predict brain metastases in stage III/IV ALK-positive non-small cell lung cancer patients. Journal of Thoracic Disease, 2019, 11, 4516-4528.	0.6	17
21	MV CBCT-Based Synthetic CT Generation Using a Deep Learning Method for Rectal Cancer Adaptive Radiotherapy. Frontiers in Oncology, 2021, 11, 655325.	1.3	17
22	Validation of a rectal cancer outcome prediction model with a cohort of Chinese patients. Oncotarget, 2015, 6, 38327-38335.	0.8	17
23	An Artificial Intelligence-Based Full-Process Solution for Radiotherapy: A Proof of Concept Study on Rectal Cancer. Frontiers in Oncology, 2020, 10, 616721.	1.3	16
24	Patient feature based dosimetric Pareto front prediction in esophageal cancer radiotherapy. Medical Physics, 2015, 42, 1005-1011.	1.6	13
25	A hybrid automated treatment planning solution for esophageal cancer. Radiation Oncology, 2019, 14, 232.	1.2	13
26	The dosimetric impact of deep learning-based auto-segmentation of organs at risk on nasopharyngeal and rectal cancer. Radiation Oncology, 2021, 16, 113.	1.2	13
27	Are simple IMRT beams more robust against MLC error? Exploring the impact of MLC errors on planar quality assurance and plan quality for different complexity beams. Journal of Applied Clinical Medical Physics, 2016, 17, 147-157.	0.8	12
28	MRI Radiomics Signature as a Potential Biomarker for Predicting KRAS Status in Locally Advanced Rectal Cancer Patients. Frontiers in Oncology, 2021, 11, 614052.	1.3	12
29	Investigation of plan quality between RapidArc and IMRT for gastric cancer based on a novel beam angle and multicriteria optimization technique. Radiotherapy and Oncology, 2014, 111, 144-147.	0.3	11
30	Commissioning of and preliminary experience with a new fully integrated computed tomography linac. Journal of Applied Clinical Medical Physics, 2021, 22, 208-223.	0.8	11
31	A hybrid optimization strategy for deliverable intensityâ€modulated radiotherapy plan generation using deep learningâ€based dose prediction. Medical Physics, 2022, 49, 1344-1356.	1.6	11
32	Using corrected Cone-Beam CT image for accelerated partial breast irradiation treatment dose verification: the preliminary experience. Radiation Oncology, 2013, 8, 214.	1.2	9
33	Radiomic features of pretreatment MRI could identify T stage in patients with rectal cancer: Preliminary findings. Journal of Magnetic Resonance Imaging, 2018, 48, spcone.	1.9	9
34	Implement a knowledgeâ€based automated dose volume histogram prediction module in Pinnacle³ treatment planning system for plan quality assurance and guidance. Journal of Applied Clinical Medical Physics, 2019, 20, 134-140.	0.8	9
35	Clinical Implementation of Automated Treatment Planning for Rectum Intensity-Modulated Radiotherapy Using Voxel-Based Dose Prediction and Post-Optimization Strategies. Frontiers in Oncology, 2021, 11, 697995.	1.3	8
36	Comprehensive analysis of prognostic value of lymph node staging classifications in patients with head and neck squamous cell carcinoma after cervical lymph node dissection. European Journal of Surgical Oncology, 2021, 47, 1710-1717.	0.5	7

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37	Is internal target volume accurate for dose evaluation in lung cancer stereotactic body radiotherapy?. Oncotarget, 2016, 7, 22523-22530.	0.8	7
38	A semi-automated tool for treatment plan-quality evaluation and clinical trial quality assurance. Physics in Medicine and Biology, 2013, 58, N181-N187.	1.6	6
39	The impact of target dosimetry on patientsâ€™ locoregional recurrence in nasopharyngeal carcinoma: A propensity score-matched analysis. Radiotherapy and Oncology, 2019, 141, 67-71.	0.3	6
40	Evaluation of Daily CT for EPID-Based Transit In Vivo Dosimetry. Frontiers in Oncology, 2021, 11, 782263.	1.3	6
41	Application of radiomics feature captured from MRI for prediction of recurrence for glioma patients. Journal of Cancer, 2022, 13, 965-974.	1.2	6
42	Identical Quality Assurance for Volumetric Modulated Arc Therapy in Elekta and Varian Machines. Technology in Cancer Research and Treatment, 2015, 14, 483-490.	0.8	3
43	The benefits evaluation of abdominal deep inspiration breath hold based on knowledgeâ€based radiotherapy treatment planning for leftâ€sided breast cancer. Journal of Applied Clinical Medical Physics, 2020, 21, 89-96.	0.8	3
44	Quantifying skeletal muscle wasting during chemoradiotherapy with Jacobian calculations for the prediction of survival and toxicity in patients with gastric cancer. European Journal of Surgical Oncology, 2020, 46, 1254-1261.	0.5	3
45	Quality Assurance for Small-Field VMAT SRS and Conventional-Field IMRT Using the Exradin W1 Scintillator. Technology in Cancer Research and Treatment, 2021, 20, 153303382110365.	0.8	3
46	Passive breath gating equipment for cone beam CT-guided RapidArc gastric cancer treatments. Radiotherapy and Oncology, 2015, 114, 104-108.	0.3	2
47	An atlas-guided automatic planning approach for rectal cancer intensity-modulated radiotherapy. Physics in Medicine and Biology, 2021, 66, 155011.	1.6	2
48	Para-aortic lymph node metastasis in lower Thoracic Esophageal Squamous Cell Carcinoma after Radical Esophagectomy: a CT-based atlas and its clinical implications for Adjuvant Radiotherapy. Journal of Cancer, 2021, 12, 1734-1741.	1.2	0
49	Multimodal image translation via deep learning inference model trained in video domain. BMC Medical Imaging, 2022, 22, .	1.4	0