Wei Zou

List of Publications by Year
in descending order

48 papers	1,184 citations	430874 18 h-index	414414 32 g-index
51 all docs	51 docs citations	51 times ranked	1486 citing authors

#	Article	IF	Citations
1	Evaluation of Two-Voltage and Three-Voltage Linear Methods for Deriving Ion Recombination Correction Factors in Proton FLASH Irradiation. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 263-270.	3.7	7
2	Management of Motion and Anatomical Variations in Charged Particle Therapy: Past, Present, and Into the Future. Frontiers in Oncology, 2022, 12, 806153.	2.8	17
3	Linear energy transfer weighted beam orientation optimization for intensity‐modulated proton therapy. Medical Physics, 2021, 48, 57-70.	3.0	15
4	Current delivery limitations of proton PBS for FLASH. Radiotherapy and Oncology, 2021, 155, 212-218.	0.6	35
5	Clinical practice vs. state-of-the-art research and future visions: Report on the 4D treatment planning workshop for particle therapy – Edition 2018 and 2019. Physica Medica, 2021, 82, 54-63.	0.7	18
6	Synergistic immunotherapy of glioblastoma by dual targeting of IL-6 and CD40. Nature Communications, 2021, 12, 3424.	12.8	74
7	Dual-Energy Computed Tomography Proton-Dose Calculation with Scripting and Modified Hounsfield Units. International Journal of Particle Therapy, 2021, 8, 62-72.	1.8	6
8	Characterization of a high‐resolution 2D transmission ion chamber for independent validation of proton pencil beam scanning of conventional and FLASH dose delivery. Medical Physics, 2021, 48, 3948-3957.	3.0	16
9	Comparison of FLASH Proton Entrance and the Spread-Out Bragg Peak Dose Regions in the Sparing of Mouse Intestinal Crypts and in a Pancreatic Tumor Model. Cancers, 2021, 13, 4244.	3.7	48
10	A Proof-of-Concept Study of an In-Situ Partial-Ring Time-of-Flight PET Scanner for Proton Beam Verification. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 694-702.	3.7	3
11	A Probability-Based Investigation on the Setup Robustness of Pencil-beam Proton Radiation Therapy for Skull-Base Meningioma. International Journal of Particle Therapy, 2021, 7, 34-45.	1.8	0
12	Deep learning for automatic target volume segmentation in radiation therapy: a review. Quantitative Imaging in Medicine and Surgery, 2021, 11, 4847-4858.	2.0	19
13	Inter-fraction robustness of intensity-modulated proton therapy in the post-operative treatment of oropharyngeal and oral cavity squamous cell carcinomas. British Journal of Radiology, 2020, 93, 20190638.	2.2	12
14	Dose to Highly Functional Ventilation Zones Improves Prediction of Radiation Pneumonitis for Proton and Photon Lung Cancer Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2020, 107, 79-87.	0.8	16
15	Per-fraction positional and dosimetric performance of prone breast tangential radiotherapy on Halcyon™ linear accelerator assessed with daily rapid kilo-voltage cone beam computed tomography: a single-institution pilot study. Radiation Oncology, 2020, 15, 258.	2.7	2
16	Higher Dose Volumes May Be Better for Evaluating Radiation Pneumonitis in Lung Proton Therapy Patients Compared With Traditional Photon-Based Dose Constraints. Advances in Radiation Oncology, 2020, 5, 943-950.	1.2	6
17	Tumor volume reduction evaluated by cone beam computed tomography during stereotactic body radiotherapy for early stage non-small cell lung cancer. Journal of Thoracic Disease, 2020, 12, 2482-2488.	1.4	1
18	Fraction‐variant beam orientation optimization for intensity‐modulated proton therapy. Medical Physics, 2020, 47, 3826-3834.	3.0	3

#	Article	IF	Citations
19	A novel energy layer optimization framework for spot-scanning proton arc therapy. Medical Physics, 2020, 47, 2072-2084.	3.0	27
20	Design, Implementation, and inÂVivo Validation of a Novel Proton FLASH Radiation Therapy System. International Journal of Radiation Oncology Biology Physics, 2020, 106, 440-448.	0.8	274
21	A Super-Learner Model for Tumor Motion Prediction and Management in Radiation Therapy: Development and Feasibility Evaluation. Scientific Reports, 2019, 9, 14868.	3.3	22
22	Robust beam orientation optimization for intensity-modulated proton therapy. Medical Physics, 2019, 46, 3356-3370.	3.0	28
23	Multi-Institutional Dosimetric Evaluation of Modern Day Stereotactic Radiosurgery (SRS) Treatment Options for Multiple Brain Metastases. Frontiers in Oncology, 2019, 9, 483.	2.8	64
24	Spine SBRT With Halcyonâ„¢: Plan Quality, Modulation Complexity, Delivery Accuracy, and Speed. Frontiers in Oncology, 2019, 9, 319.	2.8	23
25	Dosimetric Performance and Planning/Delivery Efficiency of a Dual-Layer Stacked and Staggered MLC on Treating Multiple Small Targets: A Planning Study Based on Single-Isocenter Multi-Target Stereotactic Radiosurgery (SRS) to Brain Metastases. Frontiers in Oncology, 2019, 9, 7.	2.8	28
26	Dosimetric Characterization of the Dual Layer MLC System for an O-Ring Linear Accelerator. Technology in Cancer Research and Treatment, 2019, 18, 153303381988364.	1.9	12
27	Robust optimization for intensity-modulated proton therapy with soft spot sensitivity regularization. Medical Physics, 2019, 46, 1408-1425.	3.0	13
28	Association of Target Volume Margins With Locoregional Control and Acute Toxicities for Non-small cell lung cancer Treated With Concurrent Chemoradiation Therapy. Practical Radiation Oncology, 2019, 9, e74-e82.	2.1	9
29	Clinical significance of pretreatment tumor growth rate for locally advanced non-small cell lung cancer. Annals of Translational Medicine, 2019, 7, 95-95.	1.7	4
30	Advanced radiation techniques for locally advanced non-small cell lung cancer: intensity-modulated radiation therapy and proton therapy. Journal of Thoracic Disease, 2018, 10, S2474-S2491.	1.4	24
31	Image guidance in proton therapy for lung cancer. Translational Lung Cancer Research, 2018, 7, 160-170.	2.8	8
32	Automated Knowledge-Based Intensity-Modulated Proton Planning: An International Multicenter Benchmarking Study. Cancers, 2018, 10, 420.	3.7	21
33	<scp>NCTN</scp> clinical trial standardization for radiotherapy through <scp>IROC</scp> and <scp>CIRO</scp>. Medical Physics, 2018, 45, e850-e853.	3.0	6
34	Efficient double-scattering proton therapy with a patient-specific bolus. Physica Medica, 2018, 50, 1-6.	0.7	1
35	Current State of Image Guidance in Radiation Oncology: Implications for PTV Margin Expansion and Adaptive Therapy. Seminars in Radiation Oncology, 2018, 28, 238-247.	2.2	21
36	Automated Information Extraction on Treatment and Prognosis for Nonâ€"Small Cell Lung Cancer Radiotherapy Patients: Clinical Study. JMIR Medical Informatics, 2018, 6, e8.	2.6	10

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37	Impact of Multi-leaf Collimator Parameters on Head and Neck Plan Quality and Delivery: A Comparison between Halcyon™ and Truebeam® Treatment Delivery Systems. Cureus, 2018, 10, e3648.	0.5	20
38	Modern radiotherapy using image guidance for unresectable non-small cell lung cancer can improve outcomes in patients treated with chemoradiation therapy. Journal of Thoracic Disease, 2016, 8, 2602-2609.	1.4	11
39	Real patient data based cross verification of kilovoltage and megavoltage CT calibration for proton therapy. Physica Medica, 2016, 32, 343-352.	0.7	3
40	Thoracic Vertebral Body Irradiation Contributes to Acute Hematologic Toxicity During Chemoradiation Therapy for Non-Small Cell Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2016, 94, 147-154.	0.8	44
41	Modern induction chemotherapy before chemoradiation for bulky locally-advanced nonsmall cell lung cancer improves survival. Journal of Cancer Research and Therapeutics, 2016, 12, 952.	0.9	2
42	Potential of 3D printing technologies for fabrication of electron bolus and proton compensators. Journal of Applied Clinical Medical Physics, 2015, 16, 90-98.	1.9	68
43	Comparative Assessment of Liver Tumor Motion Using Cine–Magnetic Resonance Imaging Versus 4-Dimensional Computed Tomography. International Journal of Radiation Oncology Biology Physics, 2015, 91, 1034-1040.	0.8	34
44	Reduction in Tumor Volume by Cone Beam Computed Tomography Predicts Overall Survival in Non-Small Cell Lung Cancer Treated With Chemoradiation Therapy. International Journal of Radiation Oncology Biology Physics, 2015, 92, 627-633.	0.8	47
45	Impact of metformin use on survival in locally-advanced, inoperable non-small cell lung cancer treated with definitive chemoradiation. Journal of Thoracic Disease, 2015, 7, 346-55.	1.4	37
46	High Dose Radiotherapy to Automated Implantable Cardioverter-Defibrillator: A Case Report and Review of the Literature. Case Reports in Oncological Medicine, 2014, 2014, 1-4.	0.3	10
47	Effects on the photon beam from an electromagnetic array used for patient localization and tumor tracking. Journal of Applied Clinical Medical Physics, 2013, 14, 72-80.	1.9	4
48	A clinically feasible method for the detection of potential collision in proton therapy. Medical Physics, 2012, 39, 7094-7101.	3.0	11