

Wei Zou

List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	Synergistic immunotherapy of glioblastoma by dual targeting of IL-6 and CD40. Nature Communications, 2021, 12, 3424.	12.8	74
3	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
4	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
5	Comparison of FLASH Proton Entrance and the Spread-Out Bragg Peak Dose Regions in the Sparring of Mouse Intestinal Crypts and in a Pancreatic Tumor Model. Cancers, 2021, 13, 4244.	3.7	48
6	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
7	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
8	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
9	Current delivery limitations of proton PBS for FLASH. Radiotherapy and Oncology, 2021, 155, 212-218.	0.6	35
10	Comparative Assessment of Liver Tumor Motion Using Cineâ€Magnetic Resonance Imaging Versus 4-Dimensional Computed Tomography. International Journal of Radiation Oncology Biology Physics, 2015, 91, 1034-1040.	0.8	34
11	Robust beam orientation optimization for intensityâ€modulated proton therapy. Medical Physics, 2019, 46, 3356-3370.	3.0	28
12	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
13	A novel energy layer optimization framework for spotâ€scanning proton arc therapy. Medical Physics, 2020, 47, 2072-2084.	3.0	27
14	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
15	Spine SBRT With Halcyonâ„¢: Plan Quality, Modulation Complexity, Delivery Accuracy, and Speed. Frontiers in Oncology, 2019, 9, 319.	2.8	23
16	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
17	Automated Knowledge-Based Intensity-Modulated Proton Planning: An International Multicenter Benchmarking Study. Cancers, 2018, 10, 420.	3.7	21
18	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

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19	Impact of Multi-leaf Collimator Parameters on Head and Neck Plan Quality and Delivery: A Comparison between Halcyon [®] and Truebeam [®] Treatment Delivery Systems. <i>Cureus</i> , 2018, 10, e3648.	0.5	20
20	Deep learning for automatic target volume segmentation in radiation therapy: a review. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 4847-4858.	2.0	19
21	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. <i>Physica Medica</i> , 2021, 82, 54-63.	0.7	18
22	Management of Motion and Anatomical Variations in Charged Particle Therapy: Past, Present, and Into the Future. <i>Frontiers in Oncology</i> , 2022, 12, 806153.	2.8	17
23	Dose to Highly Functional Ventilation Zones Improves Prediction of Radiation Pneumonitis for Proton and Photon Lung Cancer Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 107, 79-87.	0.8	16
24	Characterization of a high-resolution 2D transmission ion chamber for independent validation of proton pencil beam scanning of conventional and FLASH dose delivery. <i>Medical Physics</i> , 2021, 48, 3948-3957.	3.0	16
25	Linear energy transfer weighted beam orientation optimization for intensity-modulated proton therapy. <i>Medical Physics</i> , 2021, 48, 57-70.	3.0	15
26	Robust optimization for intensity-modulated proton therapy with soft spot sensitivity regularization. <i>Medical Physics</i> , 2019, 46, 1408-1425.	3.0	13
27	Dosimetric Characterization of the Dual Layer MLC System for an O-Ring Linear Accelerator. <i>Technology in Cancer Research and Treatment</i> , 2019, 18, 153303381988364.	1.9	12
28	Inter-fraction robustness of intensity-modulated proton therapy in the post-operative treatment of oropharyngeal and oral cavity squamous cell carcinomas. <i>British Journal of Radiology</i> , 2020, 93, 20190638.	2.2	12
29	A clinically feasible method for the detection of potential collision in proton therapy. <i>Medical Physics</i> , 2012, 39, 7094-7101.	3.0	11
30	Modern radiotherapy using image guidance for unresectable non-small cell lung cancer can improve outcomes in patients treated with chemoradiation therapy. <i>Journal of Thoracic Disease</i> , 2016, 8, 2602-2609.	1.4	11
31	High Dose Radiotherapy to Automated Implantable Cardioverter-Defibrillator: A Case Report and Review of the Literature. <i>Case Reports in Oncological Medicine</i> , 2014, 2014, 1-4.	0.3	10
32	Automated Information Extraction on Treatment and Prognosis for Non-Small Cell Lung Cancer Radiotherapy Patients: Clinical Study. <i>JMIR Medical Informatics</i> , 2018, 6, e8.	2.6	10
33	Association of Target Volume Margins With Locoregional Control and Acute Toxicities for Non-small cell lung cancer Treated With Concurrent Chemoradiation Therapy. <i>Practical Radiation Oncology</i> , 2019, 9, e74-e82.	2.1	9
34	Image guidance in proton therapy for lung cancer. <i>Translational Lung Cancer Research</i> , 2018, 7, 160-170.	2.8	8
35	Evaluation of Two-Voltage and Three-Voltage Linear Methods for Deriving Ion Recombination Correction Factors in Proton FLASH Irradiation. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2022, 6, 263-270.	3.7	7
36	<sc>NCTN</sc> clinical trial standardization for radiotherapy through <sc>IROC</sc> and <sc>CIRO</sc>. <i>Medical Physics</i> , 2018, 45, e850-e853.	3.0	6

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37	Higher Dose Volumes May Be Better for Evaluating Radiation Pneumonitis in Lung Proton Therapy Patients Compared With Traditional Photon-Based Dose Constraints. <i>Advances in Radiation Oncology</i> , 2020, 5, 943-950.	1.2	6
38	Dual-Energy Computed Tomography Proton-Dose Calculation with Scripting and Modified Hounsfield Units. <i>International Journal of Particle Therapy</i> , 2021, 8, 62-72.	1.8	6
39	Effects on the photon beam from an electromagnetic array used for patient localization and tumor tracking. <i>Journal of Applied Clinical Medical Physics</i> , 2013, 14, 72-80.	1.9	4
40	Clinical significance of pretreatment tumor growth rate for locally advanced non-small cell lung cancer. <i>Annals of Translational Medicine</i> , 2019, 7, 95-95.	1.7	4
41	Real patient data based cross verification of kilovoltage and megavoltage CT calibration for proton therapy. <i>Physica Medica</i> , 2016, 32, 343-352.	0.7	3
42	Fractional variant beam orientation optimization for intensity modulated proton therapy. <i>Medical Physics</i> , 2020, 47, 3826-3834.	3.0	3
43	A Proof-of-Concept Study of an In-Situ Partial-Ring Time-of-Flight PET Scanner for Proton Beam Verification. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021, 5, 694-702.	3.7	3
44	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. <i>Radiation Oncology</i> , 2020, 15, 258.	2.7	2
45	Modern induction chemotherapy before chemoradiation for bulky locally-advanced nonsmall cell lung cancer improves survival. <i>Journal of Cancer Research and Therapeutics</i> , 2016, 12, 952.	0.9	2
46	Efficient double-scattering proton therapy with a patient-specific bolus. <i>Physica Medica</i> , 2018, 50, 1-6.	0.7	1
47	Tumor volume reduction evaluated by cone beam computed tomography during stereotactic body radiotherapy for early stage non-small cell lung cancer. <i>Journal of Thoracic Disease</i> , 2020, 12, 2482-2488.	1.4	1
48	A Probability-Based Investigation on the Setup Robustness of Pencil-beam Proton Radiation Therapy for Skull-Base Meningioma. <i>International Journal of Particle Therapy</i> , 2021, 7, 34-45.	1.8	0