Jiajian Shen

List of Publications by Year
in descending order

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38	963	516710 16	454955 30
papers	citations	h-index	g-index

38	38	38	978
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spectral Decomposition of Broad-Line AGNs and Host Galaxies. Astronomical Journal, 2006, 131, 84-99.	4.7	109
2	Exploratory Study of 4D versus 3D Robust Optimization in Intensity Modulated Proton Therapy for Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2016, 95, 523-533.	0.8	103
3	THE BLACK HOLE-BULGE RELATIONSHIP IN LUMINOUS BROAD-LINE ACTIVE GALACTIC NUCLEI AND HOST GALAXIES. Astronomical Journal, 2008, 135, 928-946.	4.7	85
4	An Excursion Set Model of the Cosmic Web: The Abundance of Sheets, Filaments, and Halos. Astrophysical Journal, 2006, 645, 783-791.	4.5	75
5	Impact of respiratory motion on worst-case scenario optimized intensity modulated proton therapy for lung cancers. Practical Radiation Oncology, 2015, 5, e77-e86.	2.1	75
6	Technical Note: Using experimentally determined proton spot scanning timing parameters to accurately model beam delivery time. Medical Physics, 2017, 44, 5081-5088.	3.0	44
7	Impact of Spot Size and Spacing on the Quality of Robustly Optimized Intensity Modulated Proton Therapy Plans for Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2018, 101, 479-489.	0.8	44
8	Development and Clinical Implementation of a Universal Bolus to Maintain Spot Size During Delivery of Base of Skull Pencil Beam Scanning Proton Therapy. International Journal of Radiation Oncology Biology Physics, 2014, 90, 79-84.	0.8	39
9	Exploratory study of the association of volumetric modulated arc therapy (<scp>VMAT</scp>) plan robustness with local failure in head and neck cancer. Journal of Applied Clinical Medical Physics, 2017, 18, 76-83.	1.9	39
10	Multiple energy extraction reduces beam delivery time for a synchrotron-based proton spot-scanning system. Advances in Radiation Oncology, 2018, 3, 412-420.	1.2	36
11	Impact of range shifter material on proton pencil beam spot characteristics. Medical Physics, 2015, 42, 1335-1340.	3.0	34
12	Technical Note: Integrating an open source Monte Carlo code â€œMCsquareâ€•for clinical use in intensityâ€•modulated proton therapy. Medical Physics, 2020, 47, 2558-2574.	3.0	34
13	Smallâ€•spot intensityâ€•modulated proton therapy and volumetricâ€•modulated arc therapies for patients with locally advanced nonâ€•smallâ€•cell lung cancer: A dosimetric comparative study. Journal of Applied Clinical Medical Physics, 2018, 19, 140-148.	1.9	32
14	Robustness quantification methods comparison in volumetric modulated arc therapy to treat head and neck cancer. Practical Radiation Oncology, 2016, 6, e269-e275.	2.1	20
15	Hybrid 3D analytical linear energy transfer calculation algorithm based on precalculated data from Monte Carlo simulations. Medical Physics, 2020, 47, 745-752.	3.0	20
16	An efficient method to determine double Gaussian fluence parameters in the <scp>eclipse</scp>â„¢ proton pencil beam model. Medical Physics, 2016, 43, 6544-6551.	3.0	18
17	Technical Note: An efficient daily <scp>QA</scp> procedure for proton pencil beam scanning. Medical Physics, 2018, 45, 1040-1049.	3.0	15
18	Clinical Validation of a Ray-Casting Analytical Dose Engine for Spot Scanning Proton Delivery Systems. Technology in Cancer Research and Treatment, 2019, 18, 153303381988718.	1.9	15

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19	Exploratory Investigation of Dose-Linear Energy Transfer (LET) Volume Histogram (DLVH) for Adverse Events Study in Intensity Modulated Proton Therapy (IMPT). International Journal of Radiation Oncology Biology Physics, 2021, 110, 1189-1199.	0.8	15
20	Assessment of Polyethylene Glycol Hydrogel Spacer and Its Effect on Rectal Radiation Dose in Prostate Cancer Patients Receiving Proton Beam Radiation Therapy. Advances in Radiation Oncology, 2020, 5, 92-100.	1.2	14
21	Automation of routine elements for spotâ€scanning proton patientâ€specific quality assurance. Medical Physics, 2019, 46, 5-14.	3.0	13
22	Developing an accurate model of spot-scanning treatment delivery time and sequence for a compact superconducting synchrocyclotron proton therapy system. Radiation Oncology, 2022, 17, 87.	2.7	13
23	A novel and fast method for proton range verification using a step wedge and 2D scintillator. Medical Physics, 2017, 44, 4409-4414.	3.0	11
24	Using field size factors to characterize the in-air fluence of a proton machine with a range shifter. Radiation Oncology, 2017, 12, 52.	2.7	11
25	Technical note: Evaluation and second check of a commercial Monte Carlo dose engine for smallâ€field apertures in pencil beam scanning proton therapy. Medical Physics, 2022, 49, 3497-3506.	3.0	8
26	Technical Note: Comprehensive evaluation and implementation of two independent methods for beam monitor calibration for proton scanning beam. Medical Physics, 2019, 46, 5867-5875.	3.0	7
27	Use of a radial projection to reduce the statistical uncertainty of spot lateral profiles generated by Monte Carlo simulation. Journal of Applied Clinical Medical Physics, 2017, 18, 88-96.	1.9	6
28	Building a precise machine-specific time structure of the spot and energy delivery model for a cyclotron-based proton therapy system. Physics in Medicine and Biology, 2022, 67, 01NT01.	3.0	6
29	Applications of various range shifters for proton pencil beam scanning radiotherapy. Radiation Oncology, 2021, 16, 146.	2.7	5
30	Technical Note: Using dual step wedge and 2D scintillator to achieve highly precise and robust proton range quality assurance. Medical Physics, 2018, 45, 2947-2951.	3.0	4
31	Impact of planned dose reporting methods on Gamma pass rates for IROC lung and liver motion phantoms treated with pencil beam scanning protons. Radiation Oncology, 2019, 14, 108.	2.7	4
32	Comment on â€˜Lateral response heterogeneity of Bragg peak ionization chambers for narrow-beam photon and proton dosimetryâ€™. Physics in Medicine and Biology, 2019, 64, 198001.	3.0	2
33	Feasibility of using megavoltage computed tomography to reduce proton range uncertainty: A simulation study. Journal of Applied Clinical Medical Physics, 2021, 22, 131-140.	1.9	2
34	Clinical modeling and validation of breast tissue expander metallic ports in a commercial treatment planning system for proton therapy. Medical Physics, 2021, 48, 7512-7525.	3.0	2
35	Real-Time Tumor Tracking for Pencil Beam Scanning Proton Therapy. , 2018, , .		1
36	A method for quantitative evaluations of scanningâ€proton dose distributions. Journal of Applied Clinical Medical Physics, 2021, 22, 193-201.	1.9	1

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37	Technical Note: Multiple energy extraction techniques for synchrotronâ€based proton delivery systems may exacerbate motion interplay effects in lung cancer treatments. Medical Physics, 2021, 48, 4812-4823.	3.0	1
38	Technical Note: Longâ€term monitoring of diode sensitivity degradation induced by proton irradiation. Medical Physics, 2021, 48, 6634-6641.	3.0	0