Heng Li

List of Publications by Year
in descending order

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80	2,529	182225	232693
papers	citations	30 h-index	48 g-index

83	83	83	2331
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	AAPM Task Group Report 290: Respiratory motion management for particle therapy. Medical Physics, 2022, 49, .	1.6	30
2	Evaluating Proton Dose and Associated Range Uncertainty Using Daily Cone-Beam CT. Frontiers in Oncology, 2022, 12, 830981.	1.3	4
3	Dosimetric evaluation of coneâ€beam CTâ€based synthetic CTs in pediatric patients undergoing intensityâ€modulated proton therapy. Journal of Applied Clinical Medical Physics, 2022, 23, e13604.	0.8	9
4	Principles of intensity-modulated proton therapy treatment planning. , 2021, , 56-79.e4.		1
5	Physics quality assurance. , 2021, , 80-105.e2.		0
6	Esophagus cancer. , 2021, , 198-204.e2.		0
7	Consensus Statement on Proton Therapy in Mesothelioma. Practical Radiation Oncology, 2021, 11, 119-133.	1.1	11
8	Executive Summary of Clinical and Technical Guidelines for Esophageal Cancer Proton Beam Therapy From the Particle Therapy Co-Operative Group Thoracic and Gastrointestinal Subcommittees. Frontiers in Oncology, 2021, 11, 748331.	1.3	4
9	Multiple-CT optimization: An adaptive optimization method to account for anatomical changes in intensity-modulated proton therapy for head and neck cancers. Radiotherapy and Oncology, 2020, 142, 124-132.	0.3	28
10	Transitioning from measurement-based to combined patient-specific quality assurance for intensity-modulated proton therapy. British Journal of Radiology, 2020, 93, 20190669.	1.0	6
11	Anatomic change over the course of treatment for nonâ€“small cell lung cancer patients and its impact on intensity-modulated radiation therapy and passive-scattering proton therapy deliveries. Radiation Oncology, 2020, 15, 55.	1.2	16
12	An improved method for analyzing and reporting patterns of in-field recurrence after stereotactic ablative radiotherapy in early-stage non-small cell lung cancer. Radiotherapy and Oncology, 2020, 145, 209-214.	0.3	3
13	Statistical evaluation of worst-case robust optimization intensity-modulated proton therapy plans using an exhaustive sampling approach. Radiation Oncology, 2019, 14, 129.	1.2	13
14	An analytical model for the upper bound estimation of respiratory motionâ€“induced dose uncertainty in spotâ€scanning proton beam therapy. Medical Physics, 2019, 46, 5249-5261.	1.6	5
15	Effects of alterations in positron emission tomography imaging parameters on radiomics features. PLoS ONE, 2019, 14, e0221877.	1.1	11
16	Radiomics features of the primary tumor fail to improve prediction of overall survival in large cohorts of CT- and PET-imaged head and neck cancer patients. PLoS ONE, 2019, 14, e0222509.	1.1	56
17	Effect of setup and inter-fraction anatomical changes on the accumulated dose in CT-guided breath-hold intensity modulated proton therapy of liver malignancies. Radiotherapy and Oncology, 2019, 134, 101-109.	0.3	11
18	Dynamic contrast-enhanced magnetic resonance imaging for head and neck cancers. Scientific Data, 2018, 5, 180008.	2.4	10

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19	Esophagus Cancer. Practical Guides in Radiation Oncology, 2018, , 211-219.	0.0	0
20	Phase 2 Study of Stereotactic Body Radiation Therapy and Stereotactic Body Proton Therapy for High-Risk, Medically Inoperable, Early-Stage Non-Small Cell Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2018, 101, 558-563.	0.4	55
21	Reirradiation of thoracic cancers with intensity modulated proton therapy. Practical Radiation Oncology, 2018, 8, 58-65.	1.1	34
22	Multiple-CT optimization of intensity-modulated proton therapy â€“ Is it possible to eliminate adaptive planning?. Radiotherapy and Oncology, 2018, 128, 167-173.	0.3	22
23	Proton therapy for early-stage non-small cell lung cancer (NSCLC). Translational Lung Cancer Research, 2018, 7, 199-204.	1.3	8
24	Practical guidelines for handling head and neck computed tomography artifacts for quantitative image analysis. Computerized Medical Imaging and Graphics, 2018, 69, 134-139.	3.5	29
25	Comprehensive Investigation on Controlling for CT Imaging Variabilities in Radiomics Studies. Scientific Reports, 2018, 8, 13047.	1.6	89
26	Synthetic head and neck and phantom images for determining deformable image registration accuracy in magnetic resonance imaging. Medical Physics, 2018, 45, 4315-4321.	1.6	4
27	3D treatment planning systemâ€”Varian Eclipse for proton therapy planning. Medical Dosimetry, 2018, 43, 184-194.	0.4	7
28	Accounting for, Mitigating, and Choice of Margins for Moving Tumors. Seminars in Radiation Oncology, 2018, 28, 194-200.	1.0	4
29	Quantitative image feature variability amongst CT scanners with a controlled scan protocol. , 2018, , .		4
30	Accuracy of deformable image registration on magnetic resonance images in digital and physical phantoms. Medical Physics, 2017, 44, 5153-5161.	1.6	22
31	A Multi-Institutional Comparison of Dynamic Contrast-Enhanced Magnetic Resonance Imaging Parameter Calculations. Scientific Reports, 2017, 7, 11185.	1.6	29
32	Proton Beam Radiotherapy and Concurrent Chemotherapy for Unresectable Stage III Nonâ€“Small Cell Lung Cancer. JAMA Oncology, 2017, 3, e172032.	3.4	119
33	Clinical outcomes of intensity modulated proton therapy and concurrent chemotherapy in esophageal carcinoma: a single institutional experience. Advances in Radiation Oncology, 2017, 2, 301-307.	0.6	28
34	Consensus Guidelines for Implementing Pencil-Beam Scanning Proton Therapy for Thoracic Malignancies on Behalf of the PTCOG Thoracic and Lymphoma Subcommittee. International Journal of Radiation Oncology Biology Physics, 2017, 99, 41-50.	0.4	162
35	Synchrotron-Based Pencil Beam Scanning Nozzle with an Integrated Mini-Ridge Filter: A Dosimetric Study to Optimize Treatment Delivery. Cancers, 2017, 9, 170.	1.7	4
36	An Anthropomorphic Head and Neck Quality Assurance Phantom for Credentialing of Intensity-Modulated Proton Therapy. International Journal of Particle Therapy, 2017, 4, 40-47.	0.9	11

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37	Perturbation of waterâ€equivalent thickness as a surrogate for respiratory motion in proton therapy. Journal of Applied Clinical Medical Physics, 2016, 17, 368-378.	0.8	19
38	Motionâ€robust intensityâ€modulated proton therapy for distal esophageal cancer. Medical Physics, 2016, 43, 1111-1118.	1.6	63
39	Improving Outcomes for Esophageal Cancer using Proton Beam Therapy. International Journal of Radiation Oncology Biology Physics, 2016, 95, 488-497.	0.4	64
40	Novel Hybrid Scattering- and Scanning-Beam Proton Therapy Approach. International Journal of Particle Therapy, 2016, 3, 37-50.	0.9	2
41	Robust Optimization for Intensity Modulated Proton Therapy Plans with Multi-Isocenter Large Fields. International Journal of Particle Therapy, 2016, 3, 305-311.	0.9	7
42	Proton Therapy for Juvenile Pilocytic Astrocytoma: Quantifying Treatment Responses by Magnetic Resonance Diffusion Tensor Imaging. International Journal of Particle Therapy, 2016, 3, 414-420.	0.9	4
43	Selective robust optimization: A new intensityâ€modulated proton therapy optimization strategy. Medical Physics, 2015, 42, 4840-4847.	1.6	34
44	Towards Effective and Efficient Patient-Specific Quality Assurance for Spot Scanning Proton Therapy. Cancers, 2015, 7, 631-647.	1.7	59
45	Is there a clinical benefit with a smooth compensator design compared with a plunged compensator design for passive scattered protons?. Medical Dosimetry, 2015, 40, 37-43.	0.4	2
46	Early experience with intensity modulated proton therapy for lung-intact mesothelioma: A case series. Practical Radiation Oncology, 2015, 5, e345-e353.	1.1	40
47	Robust optimization in intensity-modulated proton therapy to account for anatomy changes in lung cancer patients. Radiotherapy and Oncology, 2015, 114, 367-372.	0.3	72
48	Impact of respiratory motion on worst-case scenario optimized intensity modulated proton therapy for lung cancers. Practical Radiation Oncology, 2015, 5, e77-e86.	1.1	75
49	Reducing Dose Uncertainty for Spot-Scanning Proton Beam Therapy of Moving Tumors by Optimizing the Spot Delivery Sequence. International Journal of Radiation Oncology Biology Physics, 2015, 93, 547-556.	0.4	30
50	Proton energy optimization and reduction for intensity-modulated proton therapy. Physics in Medicine and Biology, 2014, 59, 6341-6354.	1.6	34
51	A single-field integrated boost treatment planning technique for spot scanning proton therapy. Radiation Oncology, 2014, 9, 202.	1.2	24
52	Dosimetric benefits of robust treatment planning for intensity modulated proton therapy for base-of-skull cancers. Practical Radiation Oncology, 2014, 4, 384-391.	1.1	56
53	Dosimetric effects caused by couch tops and immobilization devices: Report of AAPM Task Group 176. Medical Physics, 2014, 41, 061501.	1.6	114
54	Evaluation and mitigation of the interplay effects of intensity modulated proton therapy for lung cancer in a clinical setting. Practical Radiation Oncology, 2014, 4, e259-e268.	1.1	56

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55	Clinical Implementation of Intensity Modulated Proton Therapy for Thoracic Malignancies. International Journal of Radiation Oncology Biology Physics, 2014, 90, 809-818.	0.4	125
56	On the interplay effects with proton scanning beams in stage III lung cancer. Medical Physics, 2014, 41, 021721.	1.6	87
57	Evaluation of the systematic error in using 3D dose calculation in scanning beam proton therapy for lung cancer. Journal of Applied Clinical Medical Physics, 2014, 15, 47-56.	0.8	11
58	Spot-Scanning Proton Therapy Patient-Specific Quality Assurance: Results from 309 Treatment Plans. International Journal of Particle Therapy, 2014, 1, 711-720.	0.9	20
59	Commissioning dose computation models for spot scanning proton beams in water for a commercially available treatment planning system. Medical Physics, 2013, 40, 041723.	1.6	80
60	Effects of Respiratory Motion on Passively Scattered Proton Therapy Versus Intensity Modulated Photon Therapy for Stage III Lung Cancer: Are Proton Plans More Sensitive to Breathing Motion?. International Journal of Radiation Oncology Biology Physics, 2013, 87, 576-582.	0.4	35
61	Statistical Assessment of Proton Treatment Plans Under Setup and Range Uncertainties. International Journal of Radiation Oncology Biology Physics, 2013, 86, 1007-1013.	0.4	53
62	Patientâ€specific quantification of respiratory motionâ€induced dose uncertainty for stepâ€andâ€shoot IMRT of lung cancer. Medical Physics, 2013, 40, 121712.	1.6	11
63	Improving spotâ€scanning proton therapy patient specific quality assurance with HPlusQA, a secondâ€check dose calculation engine. Medical Physics, 2013, 40, 121708.	1.6	32
64	Use of treatment log files in spot scanning proton therapy as part of patient-specific quality assurance. Medical Physics, 2013, 40, 021703.	1.6	60
65	Dynamically accumulated dose and 4D accumulated dose for moving tumors. Medical Physics, 2012, 39, 7359-7367.	1.6	40
66	Toward a better understanding of the gamma index: Investigation of parameters with a surfaceâ€based	1.6	44
67	Characterization of dose impact on IMRT and VMAT from couch attenuation for two Varian couches. Journal of Applied Clinical Medical Physics, 2011, 12, 23-31.	0.8	25
68	Intensity modulated proton therapy treatment planning using singleâ€field optimization: The impact of monitor unit constraints on plan quality. Medical Physics, 2010, 37, 1210-1219.	1.6	72
69	A CT-based software tool for evaluating compensator quality in passively scattered proton therapy. Physics in Medicine and Biology, 2010, 55, 6759-6771.	1.6	10
70	Blind Deblurring Reconstruction Technique with Applications in PET Imaging. International Journal of Biomedical Imaging, 2009, 2009, 1-6.	3.0	3
71	Comparison of 2D Radiographic Images and 3D Cone Beam Computed Tomography for Positioning Head-and-Neck Radiotherapy Patients. International Journal of Radiation Oncology Biology Physics, 2008, 71, 916-925.	0.4	112
72	Scatter kernel estimation with an edge-spread function method for cone-beam computed tomography imaging. Physics in Medicine and Biology, 2008, 53, 6729-6748.	1.6	77

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73	Limited Angle Dual Modality Breast Imaging. IEEE Transactions on Nuclear Science, 2007, 54, 504-513.	1.2	16
74	Lesion Quantification in Dual-Modality Mammotomography. IEEE Transactions on Nuclear Science, 2007, 54, 107-115.	1.2	6
75	Application of Blind Deblurring Reconstruction Technique to SPECT Imaging. International Journal of Biomedical Imaging, 2007, 2007, 1-9.	3.0	2
76	Lesion radioactivity concentration estimation using dual modality gamma ray/X-ray imaging. Physica Medica, 2006, 21, 68-71.	0.4	0
77	Blind Deblurring Reconstruction Technique with Applications in Spect Imaging. , 2006, , .		0
78	Derivation of Scatter Kernel in CBCT Imaging System. , 2006, , .		1
79	Half-Cone SPECT System for Small Animal Imaging. , 0, , .		0
80	Biological Effectiveness and Relative Biological Effectiveness of Ion Beams for inâ€vitro Cell Irradiation. Cancer Science, 0, , .	1.7	2