

Lei Dong

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

198
papers

11,432
citations

60
h-index

103
g-index

206
ext. papers

13,099
ext. citations

2.6
avg, IF

5.82
L-index

#	Paper	IF	Citations
198	Long-term results of the M. D. Anderson randomized dose-escalation trial for prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 70, 67-74	4	951
197	Quantification of volumetric and geometric changes occurring during fractionated radiotherapy for head-and-neck cancer using an integrated CT/linear accelerator system. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 59, 960-70	4	515
196	Validation of an accelerated demons algorithm for deformable image registration in radiation therapy. <i>Physics in Medicine and Biology</i> , 2005 , 50, 2887-905	3.8	459
195	Increased risk of biochemical and local failure in patients with distended rectum on the planning CT for prostate cancer radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 62, 965-73	4	312
194	Dosimetry tools and techniques for IMRT. <i>Medical Physics</i> , 2011 , 38, 1313-38	4.4	280
193	Assessing respiration-induced tumor motion and internal target volume using four-dimensional computed tomography for radiotherapy of lung cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 68, 531-40	4	266
192	Late rectal toxicity: dose-volume effects of conformal radiotherapy for prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002 , 54, 1314-21	4	251
191	Comprehensive analysis of proton range uncertainties related to patient stopping-power-ratio estimation using the stoichiometric calibration. <i>Physics in Medicine and Biology</i> , 2012 , 57, 4095-115	3.8	213
190	Stereotactic body radiation therapy in centrally and superiorly located stage I or isolated recurrent non-small-cell lung cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 72, 967-71	4	208
189	Use of deformed intensity distributions for on-line modification of image-guided IMRT to account for interfractional anatomic changes. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 61, 1258-66	4	191
188	Feasibility of sparing lung and other thoracic structures with intensity-modulated radiotherapy for non-small-cell lung cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 58, 1268-79	4	179
187	An evidence based review of proton beam therapy: the report of ASTRO's emerging technology committee. <i>Radiotherapy and Oncology</i> , 2012 , 103, 8-11	5.3	175
186	Reducing metal artifacts in cone-beam CT images by preprocessing projection data. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 67, 924-32	4	175
185	Quality assurance for image-guided radiation therapy utilizing CT-based technologies: a report of the AAPM TG-179. <i>Medical Physics</i> , 2012 , 39, 1946-63	4.4	174
184	Intrafraction prostate motion during IMRT for prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002 , 53, 261-8	4	173
183	4D Proton treatment planning strategy for mobile lung tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 67, 906-14	4	164
182	Adaptive radiotherapy for head-and-neck cancer: initial clinical outcomes from a prospective trial. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 83, 986-93	4	152

181	Implementation and validation of a three-dimensional deformable registration algorithm for targeted prostate cancer radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 61, 725-35	4	152
180	Osteoradionecrosis and radiation dose to the mandible in patients with oropharyngeal cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 85, 415-20	4	146
179	Multiple regions-of-interest analysis of setup uncertainties for head-and-neck cancer radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006 , 64, 1559-69	4	141
178	Candidate dosimetric predictors of long-term swallowing dysfunction after oropharyngeal intensity-modulated radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 78, 1356-65	4	130
177	Experience of ultrasound-based daily prostate localization. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003 , 56, 436-47	4	129
176	Design, Implementation, and inVivo Validation of a Novel Proton FLASH Radiation Therapy System. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020 , 106, 440-448	4	123
175	Adaptive radiotherapy for head and neck cancer--dosimetric results from a prospective clinical trial. <i>Radiotherapy and Oncology</i> , 2013 , 106, 80-4	5:3	123
174	Disease-control rates following intensity-modulated radiation therapy for small primary oropharyngeal carcinoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 67, 438-44	4	117
173	Objective assessment of deformable image registration in radiotherapy: a multi-institution study. <i>Medical Physics</i> , 2008 , 35, 5944-53	4:4	116
172	A beam-specific planning target volume (PTV) design for proton therapy to account for setup and range uncertainties. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 82, e329-36	4	114
171	Parotid gland dose in intensity-modulated radiotherapy for head and neck cancer: is what you plan what you get?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 69, 1290-6	4	112
170	Consensus Guidelines for Implementing Pencil-Beam Scanning Proton Therapy for Thoracic Malignancies on Behalf of the PTCOG Thoracic and Lymphoma Subcommittee. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017 , 99, 41-50	4	111
169	An automatic CT-guided adaptive radiation therapy technique by online modification of multileaf collimator leaf positions for prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 62, 154-63	4	111
168	Investigation of bladder dose and volume factors influencing late urinary toxicity after external beam radiotherapy for prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 67, 1059-65	4	110
167	Hazards of dose escalation in prostate cancer radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003 , 57, 1260-8	4	110
166	Effectiveness of noncoplanar IMRT planning using a parallelized multiresolution beam angle optimization method for paranasal sinus carcinoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 63, 594-601	4	110
165	Physics controversies in proton therapy. <i>Seminars in Radiation Oncology</i> , 2013 , 23, 88-96	5:5	105
164	Comparison of 2D radiographic images and 3D cone beam computed tomography for positioning head-and-neck radiotherapy patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 71, 916-25	4	100

163	Intensity-modulated proton therapy further reduces normal tissue exposure during definitive therapy for locally advanced distal esophageal tumors: a dosimetric study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 81, 1336-42	4	99
162	Evaluation of mechanical precision and alignment uncertainties for an integrated CT/LINAC system. <i>Medical Physics</i> , 2003 , 30, 1198-210	4-4	99
161	Report of the AAPM TG-256 on the relative biological effectiveness of proton beams in radiation therapy. <i>Medical Physics</i> , 2019 , 46, e53-e78	4-4	98
160	Reduce in variation and improve efficiency of target volume delineation by a computer-assisted system using a deformable image registration approach. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 68, 1512-21	4	97
159	Effectiveness of robust optimization in intensity-modulated proton therapy planning for head and neck cancers. <i>Medical Physics</i> , 2013 , 40, 051711	4-4	96
158	Patterns of disease recurrence following treatment of oropharyngeal cancer with intensity modulated radiation therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 85, 941-7 ⁴		88
157	Image-guided radiation therapy for non-small cell lung cancer. <i>Journal of Thoracic Oncology</i> , 2008 , 3, 177-86	8.9	88
156	Use of portal images and BAT ultrasonography to measure setup error and organ motion for prostate IMRT: implications for treatment margins. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003 , 56, 1218-24	4	88
155	Comparison of rectal dose-wall histogram versus dose-volume histogram for modeling the incidence of late rectal bleeding after radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 60, 1589-601	4	87
154	Patient-specific point dose measurement for IMRT monitor unit verification. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003 , 56, 867-77	4	87
153	Performance evaluation of automatic anatomy segmentation algorithm on repeat or four-dimensional computed tomography images using deformable image registration method. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 72, 210-9	4	85
152	Automatic registration of the prostate for computed-tomography-guided radiotherapy. <i>Medical Physics</i> , 2003 , 30, 2750-7	4-4	85
151	Image guided radiation therapy (IGRT) technologies for radiation therapy localization and delivery. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 87, 33-45	4	82
150	Automatic segmentation of whole breast using atlas approach and deformable image registration. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 73, 1493-500	4	81
149	Effect of anatomic motion on proton therapy dose distributions in prostate cancer treatment. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 67, 620-9	4	77
148	Monte Carlo simulations of the dosimetric impact of radiopaque fiducial markers for proton radiotherapy of the prostate. <i>Physics in Medicine and Biology</i> , 2007 , 52, 2937-52	3.8	71
147	Proton radiotherapy for liver tumors: dosimetric advantages over photon plans. <i>Medical Dosimetry</i> , 2008 , 33, 259-67	1.3	69
146	Evaluation of respiratory-induced target motion for esophageal tumors at the gastroesophageal junction. <i>Radiotherapy and Oncology</i> , 2007 , 84, 283-9	5-3	66

145	Dose-volume response analyses of late rectal bleeding after radiotherapy for prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 59, 353-65	4	64
144	Development of methods for beam angle optimization for IMRT using an accelerated exhaustive search strategy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 60, 1325-37	4	64
143	The use of rectal balloon during the delivery of intensity modulated radiotherapy (IMRT) for prostate cancer: more than just a prostate gland immobilization device?. <i>Cancer Journal (Sudbury, Mass)</i> , 2002 , 8, 476-83	2.2	64
142	Estimation of $\overline{D}_{0.05}$ for late rectal toxicity based on RTOG 94-06. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 81, 600-5	4	63
141	Dose-response characteristics of low- and intermediate-risk prostate cancer treated with external beam radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 61, 993-1002	4	62
140	An image correlation procedure for digitally reconstructed radiographs and electronic portal images. <i>International Journal of Radiation Oncology Biology Physics</i> , 1995 , 33, 1053-60	4	61
139	Quantification of prostate and seminal vesicle interfraction variation during IMRT. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 71, 813-20	4	60
138	Rapid radiographic film calibration for IMRT verification using automated MLC fields. <i>Medical Physics</i> , 2002 , 29, 2384-90	4.4	59
137	A deformable image registration method to handle distended rectums in prostate cancer radiotherapy. <i>Medical Physics</i> , 2006 , 33, 3304-12	4.4	57
136	Impact of respiratory motion on worst-case scenario optimized intensity modulated proton therapy for lung cancers. <i>Practical Radiation Oncology</i> , 2015 , 5, e77-86	2.8	54
135	Accuracy of two heterogeneity dose calculation algorithms for IMRT in treatment plans designed using an anthropomorphic thorax phantom. <i>Medical Physics</i> , 2007 , 34, 1850-7	4.4	53
134	Beam angle optimization and reduction for intensity-modulated radiation therapy of non-small-cell lung cancers. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006 , 65, 561-72	4	51
133	Dosimetric accuracy of Kodak EDR2 film for IMRT verifications. <i>Medical Physics</i> , 2005 , 32, 539-48	4.4	51
132	Ultrasound-based localization. <i>Seminars in Radiation Oncology</i> , 2005 , 15, 180-91	5.5	50
131	Dose constraints to prevent radiation-induced brachial plexopathy in patients treated for lung cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 82, e391-8	4	48
130	Dosimetric comparison of four target alignment methods for prostate cancer radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006 , 66, 883-91	4	48
129	Characterization of rectal normal tissue complication probability after high-dose external beam radiotherapy for prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 58, 1513-9	4	48
128	Adaptive radiation therapy for head and neck cancer-can an old goal evolve into a new standard?. <i>Journal of Oncology</i> , 2011 , 2011,	4.5	47

127	Late rectal toxicity on RTOG 94-06: analysis using a mixture Lyman model. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 78, 1253-60	4	47
126	Dosimetric benefits of robust treatment planning for intensity modulated proton therapy for base-of-skull cancers. <i>Practical Radiation Oncology</i> , 2014 , 4, 384-91	2.8	46
125	Statistical assessment of proton treatment plans under setup and range uncertainties. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 86, 1007-13	4	45
124	Modeling respiratory motion for reducing motion artifacts in 4D CT images. <i>Medical Physics</i> , 2013 , 40, 041716	4.4	43
123	Speed and convergence properties of gradient algorithms for optimization of IMRT. <i>Medical Physics</i> , 2004 , 31, 1141-52	4.4	43
122	Evaluation of a contour-alignment technique for CT-guided prostate radiotherapy: an intra- and interobserver study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 59, 412-8	4	42
121	Cluster model analysis of late rectal bleeding after IMRT of prostate cancer: a case-control study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006 , 64, 1255-64	4	41
120	Dose-response for biochemical control among high-risk prostate cancer patients after external beam radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003 , 56, 1234-40	4	37
119	Changes in the pelvic anatomy after an IMRT treatment fraction of prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 68, 1529-36	4	35
118	A portal image alignment and patient setup verification procedure using moments and correlation techniques. <i>Physics in Medicine and Biology</i> , 1996 , 41, 697-723	3.8	34
117	Dose sculpting with generalized equivalent uniform dose. <i>Medical Physics</i> , 2005 , 32, 1387-96	4.4	34
116	Multi-Institutional Dosimetric Evaluation of Modern Day Stereotactic Radiosurgery (SRS) Treatment Options for Multiple Brain Metastases. <i>Frontiers in Oncology</i> , 2019 , 9, 483	5.3	33
115	Position effects of acoustic micro-resonator in quartz enhanced photoacoustic spectroscopy. <i>Sensors and Actuators B: Chemical</i> , 2015 , 206, 364-370	8.5	32
114	Lack of correlation between external fiducial positions and internal tumor positions during breath-hold CT. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 76, 1586-91	4	32
113	Retrospective analysis of 2D patient-specific IMRT verifications. <i>Medical Physics</i> , 2005 , 32, 838-50	4.4	32
112	Toward a better understanding of the gamma index: Investigation of parameters with a surface-based distance method. <i>Medical Physics</i> , 2011 , 38, 6730-41	4.4	31
111	Verification of radiosurgery target point alignment with an electronic portal imaging device (EPID). <i>Medical Physics</i> , 1997 , 24, 263-7	4.4	31
110	Comparison of multi-institutional Varian ProBeam pencil beam scanning proton beam commissioning data. <i>Journal of Applied Clinical Medical Physics</i> , 2017 , 18, 96-107	2.3	31

109	Effectiveness of using fewer implanted fiducial markers for prostate target alignment. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 74, 1283-9	4	30
108	Integrated beam orientation and scanning-spot optimization in intensity-modulated proton therapy for brain and unilateral head and neck tumors. <i>Medical Physics</i> , 2018 , 45, 1338-1350	4.4	29
107	Automatic contouring of brachial plexus using a multi-atlas approach for lung cancer radiotherapy. <i>Practical Radiation Oncology</i> , 2013 , 3,	2.8	29
106	Efficiency of respiratory-gated delivery of synchrotron-based pulsed proton irradiation. <i>Physics in Medicine and Biology</i> , 2008 , 53, 1947-59	3.8	29
105	Is a 3-mm intrafractional margin sufficient for daily image-guided intensity-modulated radiation therapy of prostate cancer?. <i>Radiotherapy and Oncology</i> , 2007 , 85, 251-9	5.3	29
104	Anatomic distribution of fluorodeoxyglucose-avid para-aortic lymph nodes in patients with cervical cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 85, 1045-50	4	28
103	A comparison of tumor motion characteristics between early stage and locally advanced stage lung cancers. <i>Radiotherapy and Oncology</i> , 2012 , 104, 33-8	5.3	26
102	Do intermediate radiation doses contribute to late rectal toxicity? An analysis of data from radiation therapy oncology group protocol 94-06. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 84, 390-5	4	25
101	Quantifying the interfractional displacement of the gastroesophageal junction during radiation therapy for esophageal cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 83, e273-80	4	25
100	The effect of dental artifacts, contrast media, and experience on interobserver contouring variations in head and neck anatomy. <i>American Journal of Clinical Oncology: Cancer Clinical Trials</i> , 2007 , 30, 191-8	2.7	25
99	Cluster models of dose-volume effects. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 59, 1491-504	4	24
98	Assessment of shoulder position variation and its impact on IMRT and VMAT doses for head and neck cancer. <i>Radiation Oncology</i> , 2012 , 7, 19	4.2	23
97	Current clinical coverage of Radiation Therapy Oncology Group-defined target volumes for postmastectomy radiation therapy. <i>Practical Radiation Oncology</i> , 2012 , 2, 201-209	2.8	23
96	Tumor-volume simulation during radiotherapy for head-and-neck cancer using a four-level cell population model. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 75, 595-602	4	23
95	Evaluation of tumor position and PTV margins using image guidance and respiratory gating. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 76, 1578-85	4	23
94	Assessing the impact of an alternative biochemical failure definition on radiation dose response for high-risk prostate cancer treated with external beam radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 61, 14-9	4	23
93	A six-year review of more than 13,000 patient-specific IMRT QA results from 13 different treatment sites. <i>Journal of Applied Clinical Medical Physics</i> , 2014 , 15, 4935	2.3	21
92	Daily alignment results of in-room computed tomography-guided stereotactic body radiation therapy for lung cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 79, 473-80	4	21

91	High-sensitivity, large dynamic range, auto-calibration methane optical sensor using a short confocal Fabry-Pérot cavity. <i>Sensors and Actuators B: Chemical</i> , 2007 , 127, 350-357	8.5	21
90	Auto-segmentation of low-risk clinical target volume for head and neck radiation therapy. <i>Practical Radiation Oncology</i> , 2014 , 4, e31-7	2.8	20
89	Comparison of treatment volumes and techniques in prostate cancer radiation therapy. <i>American Journal of Clinical Oncology: Cancer Clinical Trials</i> , 2005 , 28, 618-25	2.7	20
88	A pencil-beam photon dose algorithm for stereotactic radiosurgery using a miniature multileaf collimator. <i>Medical Physics</i> , 1998 , 25, 841-50	4.4	20
87	Advantages of simulating thoracic cancer patients in an upright position. <i>Practical Radiation Oncology</i> , 2014 , 4, e53-8	2.8	19
86	Anatomic distribution of [(18)F] fluorodeoxyglucose-avid lymph nodes in patients with cervical cancer. <i>Practical Radiation Oncology</i> , 2013 , 3, 45-53	2.8	18
85	Statistical modeling approach to quantitative analysis of interobserver variability in breast contouring. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014 , 89, 214-21	4	17
84	Roadmap: proton therapy physics and biology. <i>Physics in Medicine and Biology</i> , 2020 ,	3.8	17
83	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. <i>Frontiers in Oncology</i> , 2019 , 9, 7	5.3	16
82	Experience in commissioning the halcyon linac. <i>Medical Physics</i> , 2019 , 46, 4304-4313	4.4	16
81	A serial 4DCT study to quantify range variations in charged particle radiotherapy of thoracic cancers. <i>Journal of Radiation Research</i> , 2014 , 55, 309-19	2.4	16
80	Variable planning margin approach to account for locoregional variations in setup uncertainties. <i>Medical Physics</i> , 2012 , 39, 5136-44	4.4	16
79	Improving accuracy of electron density measurement in the presence of metallic implants using orthovoltage computed tomography. <i>Medical Physics</i> , 2008 , 35, 1932-41	4.4	15
78	A sensitivity-guided algorithm for automated determination of IMRT objective function parameters. <i>Medical Physics</i> , 2006 , 33, 2935-44	4.4	15
77	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	1.2	15
76	Current delivery limitations of proton PBS for FLASH. <i>Radiotherapy and Oncology</i> , 2021 , 155, 212-218	5.3	15
75	Metabolic imaging biomarkers of postradiotherapy xerostomia. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 83, 1609-16	4	14
74	Robust beam orientation optimization for intensity-modulated proton therapy. <i>Medical Physics</i> , 2019 , 46, 3356-3370	4.4	13

73	Design and commissioning of an image-guided small animal radiation platform and quality assurance protocol for integrated proton and x-ray radiobiology research. <i>Physics in Medicine and Biology</i> , 2019 , 64, 135013	3.8	13
72	Spine SBRT With Halcyon Plan Quality, Modulation Complexity, Delivery Accuracy, and Speed. <i>Frontiers in Oncology</i> , 2019 , 9, 319	5.3	13
71	Current State of Image Guidance in Radiation Oncology: Implications for PTV Margin Expansion and Adaptive Therapy. <i>Seminars in Radiation Oncology</i> , 2018 , 28, 238-247	5.5	13
70	A novel dose-based positioning method for CT image-guided proton therapy. <i>Medical Physics</i> , 2013 , 40, 051714	4.4	13
69	The precision of respiratory-gated delivery of synchrotron-based pulsed beam proton therapy. <i>Physics in Medicine and Biology</i> , 2010 , 55, 7633-47	3.8	13
68	Fast range-corrected proton dose approximation method using prior dose distribution. <i>Physics in Medicine and Biology</i> , 2012 , 57, 3555-69	3.8	13
67	A novel patch-field design using an optimized grid filter for passively scattered proton beams. <i>Physics in Medicine and Biology</i> , 2007 , 52, N265-75	3.8	13
66	Dosimetric verification for intensity-modulated radiotherapy of thoracic cancers using experimental and Monte Carlo approaches. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006 , 66, 939-48	4	13
65	Perturbation of water-equivalent thickness as a surrogate for respiratory motion in proton therapy. <i>Journal of Applied Clinical Medical Physics</i> , 2016 , 17, 368-378	2.3	13
64	Automated Knowledge-Based Intensity-Modulated Proton Planning: An International Multicenter Benchmarking Study. <i>Cancers</i> , 2018 , 10,	6.6	13
63	FLASH Proton Radiotherapy Spares Normal Epithelial and Mesenchymal Tissues While Preserving Sarcoma Response. <i>Cancer Research</i> , 2021 , 81, 4808-4821	10.1	13
62	A technique to use CT images for in vivo detection and quantification of the spatial distribution of radiation-induced esophagitis. <i>Journal of Applied Clinical Medical Physics</i> , 2013 , 14, 4195	2.3	12
61	Influence of intravenous contrast agent on dose calculation in proton therapy using dual energy CT. <i>Physics in Medicine and Biology</i> , 2019 , 64, 125024	3.8	11
60	A Super-Learner Model for Tumor Motion Prediction and Management in Radiation Therapy: Development and Feasibility Evaluation. <i>Scientific Reports</i> , 2019 , 9, 14868	4.9	11
59	A statistical modeling approach for evaluating auto-segmentation methods for image-guided radiotherapy. <i>Computerized Medical Imaging and Graphics</i> , 2012 , 36, 492-500	7.6	11
58	Improving soft-tissue contrast in four-dimensional computed tomography images of liver cancer patients using a deformable image registration method. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 72, 201-9	4	11
57	Piezo-enhanced acoustic detection module for mid-infrared trace gas sensing using a grooved quartz tuning fork. <i>Optics Express</i> , 2019 , 27, 35267-35278	3.3	11
56	Learning anatomy changes from patient populations to create artificial CT images for voxel-level validation of deformable image registration. <i>Journal of Applied Clinical Medical Physics</i> , 2016 , 17, 246-258	2.3	11

55	Increase in Superficial Dose in Whole-Breast Irradiation With Halcyon Straight-Through Linac Compared With Traditional C-arm Linac With Flattening Filter: In Vivo Dosimetry and Planning Study. <i>Advances in Radiation Oncology</i> , 2020 , 5, 120-126	3.3	11
54	Initial Clinical Experience Treating Patients with Breast Cancer on a 6-MV Flattening-Filter-Free O-Ring Linear Accelerator. <i>Advances in Radiation Oncology</i> , 2019 , 4, 571-578	3.3	10
53	A CT-based software tool for evaluating compensator quality in passively scattered proton therapy. <i>Physics in Medicine and Biology</i> , 2010 , 55, 6759-71	3.8	10
52	A novel energy layer optimization framework for spot-scanning proton arc therapy. <i>Medical Physics</i> , 2020 , 47, 2072-2084	4.4	9
51	Use of fractional dose-volume histograms to model risk of acute rectal toxicity among patients treated on RTOG 94-06. <i>Radiotherapy and Oncology</i> , 2012 , 104, 109-13	5.3	9
50	Whole Breast Irradiation with Halcyon 2.0: Workflow and Efficiency of Field-in-Field Treatment with Dynamic Beam Flattening Technique and kV Cone Beam Computed Tomography. <i>Cureus</i> , 2018 , 10, e3510	1.2	9
49	Characterization of the Megavoltage Cone-Beam Computed Tomography (MV-CBCT) System on Halcyon for IGRT: Image Quality Benchmark, Clinical Performance, and Organ Doses. <i>Frontiers in Oncology</i> , 2019 , 9, 496	5.3	8
48	Anisotropic margin expansions in 6 anatomic directions for oropharyngeal image guided radiation therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 87, 596-601	4	8
47	The delivery of IMRT with a single physical modulator for multiple fields: a feasibility study for paranasal sinus cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 58, 876-87	4	8
46	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	4	8
45	Dosimetric Characterization of the Dual Layer MLC System for an O-Ring Linear Accelerator. <i>Technology in Cancer Research and Treatment</i> , 2019 , 18, 1533033819883641	2.7	8
44	Impact of fractionation and number of fields on dose homogeneity for intra-fractionally moving lung tumors using scanned carbon ion treatment. <i>Radiotherapy and Oncology</i> , 2016 , 118, 498-503	5.3	7
43	Digital reconstruction of high-quality daily 4D cone-beam CT images using prior knowledge of anatomy and respiratory motion. <i>Computerized Medical Imaging and Graphics</i> , 2015 , 40, 30-8	7.6	7
42	Initial Evaluation of a Novel Cone-Beam CT-Based Semi-Automated Online Adaptive Radiotherapy System for Head and Neck Cancer Treatment - A Timing and Automation Quality Study. <i>Cureus</i> , 2020 , 12, e9660	1.2	7
41	Cherenkov imaging for total skin electron therapy (TSET). <i>Medical Physics</i> , 2020 , 47, 201-212	4.4	7
40	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	3.4	7
39	Robust optimization for intensity-modulated proton therapy with soft spot sensitivity regularization. <i>Medical Physics</i> , 2019 , 46, 1408-1425	4.4	7
38	Dosimetric impact and detectability of multi-leaf collimator positioning errors on Varian Halcyon. <i>Journal of Applied Clinical Medical Physics</i> , 2019 , 20, 47-55	2.3	6

37	A volumetric trend analysis of the prostate and seminal vesicles during a course of intensity-modulated radiation therapy. <i>American Journal of Clinical Oncology: Cancer Clinical Trials</i> , 2010 , 33, 173-5	2.7	6
36	Development of Ultra-High Dose Rate (FLASH) Particle Therapy. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021 , 1-1	4.2	6
35	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. <i>Cancers</i> , 2021 , 13,	6.6	6
34	Predicting oropharyngeal tumor volume throughout the course of radiation therapy from pretreatment computed tomography data using general linear models. <i>Medical Physics</i> , 2014 , 41, 051705	4.4	5
33	Oncology Scan Improvements in Dose Calculation, Deformable Registration, and MR-Guided Radiation Delivery. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 86, 395-397	4	5
32	A technique for reducing patient setup uncertainties by aligning and verifying daily positioning of a moving tumor using implanted fiducials. <i>Journal of Applied Clinical Medical Physics</i> , 2008 , 9, 110-122	2.3	5
31	Effects of motilin and ursodeoxycholic acid on gastrointestinal myoelectric activity of different origins in fasted rats. <i>World Journal of Gastroenterology</i> , 2004 , 10, 2509-13	5.6	5
30	Improved human observer performance in digital reconstructed radiograph verification in head and neck cancer radiotherapy. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015 , 10, 1667-73	3.9	4
29	Field-Specific Intensity-modulated Proton Therapy Optimization Technique for Breast Cancer Patients with Tissue Expanders Containing Metal Ports. <i>Cureus</i> , 2017 , 9, e1698	1.2	4
28	On-line dose-guidance to account for inter-fractional motion during proton therapy. <i>Physics and Imaging in Radiation Oncology</i> , 2019 , 9, 7-13	3.1	4
27	Daily bone alignment with limited repeat CT correction rivals daily ultrasound alignment for prostate radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 71, 274-80	4	3
26	High-dose intensity modulated radiation therapy for prostate cancer. <i>Current Urology Reports</i> , 2004 , 5, 197-202	2.9	3
25	Deep learning for automatic target volume segmentation in radiation therapy: a review. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021 , 11, 4847-4858	3.6	3
24	Evaluation of an scatter correction algorithm for cone-beam computed tomography based range and dose calculations in proton therapy. <i>Physics and Imaging in Radiation Oncology</i> , 2020 , 16, 89-94	3.1	3
23	Initial Clinical Experience Treating Patients With Gynecologic Cancers on a 6MV Flattening Filter Free O-Ring Linear Accelerator. <i>Advances in Radiation Oncology</i> , 2020 , 5, 920-928	3.3	2
22	Fraction-variant beam orientation optimization for intensity-modulated proton therapy. <i>Medical Physics</i> , 2020 , 47, 3826-3834	4.4	2
21	Forecasting longitudinal changes in oropharyngeal tumor morphology throughout the course of head and neck radiation therapy. <i>Medical Physics</i> , 2014 , 41, 081708	4.4	2
20	Automating RTOG-defined target volumes for postmastectomy radiation therapy. <i>Practical Radiation Oncology</i> , 2011 , 1, 97-104	2.8	2

19	Technical Note: Dosimetric characterization of the dynamic beam flattening MLC sequence on a ring shaped, Jawless Linear Accelerator with double stacked MLC. <i>Medical Physics</i> , 2020 , 47, 948-957	4.4	2
18	Simultaneous Multiple Liver Metastasis Treated with Pencil Beam Proton Stereotactic Body Radiotherapy (SBRT). <i>International Journal of Particle Therapy</i> , 2021 , 8, 89-94	1.5	2
17	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> , 2021 , 1-1	4.2	2
16	Management of Motion and Anatomical Variations in Charged Particle Therapy: Past, Present, and Into the Future.. <i>Frontiers in Oncology</i> , 2022 , 12, 806153	5.3	2
15	Long-term Inter-protocol kV CBCT image quality assessment for a ring-gantry linac via automated QA approach. <i>Biomedical Physics and Engineering Express</i> , 2020 , 6, 015025	1.5	1
14	Anatomic variation and dosimetric consequences of neoadjuvant hormone therapy before radiation therapy for prostate cancer. <i>Practical Radiation Oncology</i> , 2013 , 3, 329-36	2.8	1
13	The distribution of motilin receptor in the amygdala of rats and its role in migrating myoelectric complex. <i>Journal of Medical Colleges of PLA</i> , 2007 , 22, 329-336		1
12	Initial Clinical Experience Treating Patients With Lung Cancer on a 6MV-Flattening-Filter-Free O-Ring Linear Accelerator. <i>Cureus</i> , 2020 , 12, e10325	1.2	1
11	Initial clinical experience treating patients with palliative radiotherapy for malignant pleural mesothelioma on the Halcyon™ linear accelerator. <i>Annals of Palliative Medicine</i> , 2020 , 9, 2903-2912	1.7	1
10	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	3.3	1
9	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	4.4	1
8	Linear energy transfer weighted beam orientation optimization for intensity-modulated proton therapy. <i>Medical Physics</i> , 2021 , 48, 57-70	4.4	1
7	Tissue-specific deformable image registration using a spatial-contextual filter. <i>Computerized Medical Imaging and Graphics</i> , 2021 , 88, 101849	7.6	1
6	Efficient double-scattering proton therapy with a patient-specific bolus. <i>Physica Medica</i> , 2018 , 50, 1-6	2.7	1
5	Dual-Energy Computed Tomography Proton-Dose Calculation with Scripting and Modified Hounsfield Units. <i>International Journal of Particle Therapy</i> , 2021 , 8, 62-72	1.5	0
4	Advanced Topics in Particle Radiotherapy. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2022 , 1-1	4.2	
3	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	4.2	
2	Technical Note: Solving the "Chinese postman problem" for effective contour deformation. <i>Medical Physics</i> , 2018 , 45, 767-772	4.4	

- 1 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 1.5