

Lei Dong

List of Publications by Year in descending order

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203
papers

14,383
citations

17440

63
h-index

21540

114
g-index

206
all docs

206
docs citations

206
times ranked

8343
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	0.8	1,137
2	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, 960-970.	0.8	643
3	Validation of an accelerated "demon" algorithm for deformable image registration in radiation therapy. <i>Physics in Medicine and Biology</i> , 2005, 50, 2887-2905.	3.0	537
4	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, 965-973.	0.8	385
5	Dosimetry tools and techniques for IMRT. <i>Medical Physics</i> , 2011, 38, 1313-1338.	3.0	359
6	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, 531-540.	0.8	306
7	Late rectal toxicity: dose-volume effects of conformal radiotherapy for prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002, 54, 1314-1321.	0.8	279
8	Design, Implementation, and in-Vivo Validation of a Novel Proton FLASH Radiation Therapy System. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 106, 440-448.	0.8	274
9	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, 4095-4115.	3.0	273
10	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, 967-971.	0.8	251
11	Quality assurance for image-guided radiation therapy utilizing CT-based technologies: A report of the AAPM TG179. <i>Medical Physics</i> , 2012, 39, 1946-1963.	3.0	251
12	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, 1258-1266.	0.8	218
13	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.	0.6	212
14	Reducing metal artifacts in cone-beam CT images by preprocessing projection data. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 67, 924-932.	0.8	209
15	Osteoradionecrosis and Radiation Dose to the Mandible in Patients With Oropharyngeal Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 85, 415-420.	0.8	209
16	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, 986-993.	0.8	205
17	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, 1268-1279.	0.8	199
18	Intrafraction prostate motion during IMRT for prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002, 53, 261-268.	0.8	193

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19	Report of the <sc>AAPM TG</sc>â€256 on the relative biological effectiveness of proton beams in radiation therapy. Medical Physics, 2019, 46, e53-e78.	3.0	189
20	4D Proton treatment planning strategy for mobile lung tumors. International Journal of Radiation Oncology Biology Physics, 2007, 67, 906-914.	0.8	178
21	Implementation and validation of a three-dimensional deformable registration algorithm for targeted prostate cancer radiotherapy. International Journal of Radiation Oncology Biology Physics, 2005, 61, 725-735.	0.8	168
22	Adaptive radiotherapy for head and neck cancerâ€”Dosimetric results from a prospective clinical trial. Radiotherapy and Oncology, 2013, 106, 80-84.	0.6	168
23	Multiple regions-of-interest analysis of setup uncertainties for head-and-neck cancer radiotherapy. International Journal of Radiation Oncology Biology Physics, 2006, 64, 1559-1569.	0.8	165
24	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.	0.8	162
25	Candidate Dosimetric Predictors of Long-Term Swallowing Dysfunction After Oropharyngeal Intensity-Modulated Radiotherapy. International Journal of Radiation Oncology Biology Physics, 2010, 78, 1356-1365.	0.8	156
26	A Beam-Specific Planning Target Volume (PTV) Design for Proton Therapy to Account for Setup and Range Uncertainties. International Journal of Radiation Oncology Biology Physics, 2012, 82, e329-e336.	0.8	145
27	Experience of ultrasound-based daily prostate localization. International Journal of Radiation Oncology Biology Physics, 2003, 56, 436-447.	0.8	144
28	Effectiveness of robust optimization in intensityâ€modulated proton therapy planning for head and neck cancers. Medical Physics, 2013, 40, 051711.	3.0	135
29	Objective assessment of deformable image registration in radiotherapy: A multiâ€institution study. Medical Physics, 2008, 35, 5944-5953.	3.0	132
30	Disease-control rates following intensity-modulated radiation therapy for small primary oropharyngeal carcinoma. International Journal of Radiation Oncology Biology Physics, 2007, 67, 438-444.	0.8	130
31	Parotid Gland Dose in Intensity-Modulated Radiotherapy for Head and Neck Cancer: Is What You Plan What You Get?. International Journal of Radiation Oncology Biology Physics, 2007, 69, 1290-1296.	0.8	130
32	Investigation of bladder dose and volume factors influencing late urinary toxicity after external beam radiotherapy for prostate cancer. International Journal of Radiation Oncology Biology Physics, 2007, 67, 1059-1065.	0.8	127
33	Physics Controversies in Proton Therapy. Seminars in Radiation Oncology, 2013, 23, 88-96.	2.2	127
34	An automatic CT-guided adaptive radiation therapy technique by online modification of multileaf collimator leaf positions for prostate cancer. International Journal of Radiation Oncology Biology Physics, 2005, 62, 154-163.	0.8	125
35	Intensity-Modulated Proton Therapy Further Reduces Normal Tissue Exposure During Definitive Therapy for Locally Advanced Distal Esophageal Tumors: A Dosimetric Study. International Journal of Radiation Oncology Biology Physics, 2011, 81, 1336-1342.	0.8	122
36	Hazards of dose escalation in prostate cancer radiotherapy. International Journal of Radiation Oncology Biology Physics, 2003, 57, 1260-1268.	0.8	121

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37	Image Guided Radiation Therapy (IGRT) Technologies for Radiation Therapy Localization and Delivery. International Journal of Radiation Oncology Biology Physics, 2013, 87, 33-45.	0.8	120
38	Effectiveness of noncoplanar IMRT planning using a parallelized multiresolution beam angle optimization method for paranasal sinus carcinoma. International Journal of Radiation Oncology Biology Physics, 2005, 63, 594-601.	0.8	119
39	Reduce in Variation and Improve Efficiency of Target Volume Delineation by a Computer-Assisted System Using a Deformable Image Registration Approach. International Journal of Radiation Oncology Biology Physics, 2007, 68, 1512-1521.	0.8	113
40	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.	0.8	112
41	Evaluation of mechanical precision and alignment uncertainties for an integrated CT/LINAC system. Medical Physics, 2003, 30, 1198-1210.	3.0	107
42	Automatic Segmentation of Whole Breast Using Atlas Approach and Deformable Image Registration. International Journal of Radiation Oncology Biology Physics, 2009, 73, 1493-1500.	0.8	102
43	Use of portal images and BAT ultrasonography to measure setup error and organ motion for prostate IMRT: implications for treatment margins. International Journal of Radiation Oncology Biology Physics, 2003, 56, 1218-1224.	0.8	101
44	Image-Guided Radiation Therapy for Non-small Cell Lung Cancer. Journal of Thoracic Oncology, 2008, 3, 177-186.	1.1	101
45	Patient-specific point dose measurement for IMRT monitor unit verification. International Journal of Radiation Oncology Biology Physics, 2003, 56, 867-877.	0.8	100
46	Patterns of Disease Recurrence Following Treatment of Oropharyngeal Cancer With Intensity Modulated Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2013, 85, 941-947.	0.8	99
47	Performance Evaluation of Automatic Anatomy Segmentation Algorithm on Repeat or Four-Dimensional Computed Tomography Images Using Deformable Image Registration Method. International Journal of Radiation Oncology Biology Physics, 2008, 72, 210-219.	0.8	98
48	Automatic registration of the prostate for computed-tomography-guided radiotherapy. Medical Physics, 2003, 30, 2750-2757.	3.0	94
49	Comparison of rectal dose-wall histogram versus dose-volume histogram for modeling the incidence of late rectal bleeding after radiotherapy. International Journal of Radiation Oncology Biology Physics, 2004, 60, 1589-1601.	0.8	94
50	Effect of anatomic motion on proton therapy dose distributions in prostate cancer treatment. International Journal of Radiation Oncology Biology Physics, 2007, 67, 620-629.	0.8	89
51	Monte Carlo simulations of the dosimetric impact of radiopaque fiducial markers for proton radiotherapy of the prostate. Physics in Medicine and Biology, 2007, 52, 2937-2952.	3.0	83
52	Proton Radiotherapy for Liver Tumors: Dosimetric Advantages Over Photon Plans. Medical Dosimetry, 2008, 33, 259-267.	0.9	83
53	FLASH Proton Radiotherapy Spares Normal Epithelial and Mesenchymal Tissues While Preserving Sarcoma Response. Cancer Research, 2021, 81, 4808-4821.	0.9	77
54	Estimation of $\hat{\mu}/\hat{\sigma}^2$ for Late Rectal Toxicity Based on RTOG 94-06. International Journal of Radiation Oncology Biology Physics, 2011, 81, 600-605.	0.8	76

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55	The Use of Rectal Balloon During the Delivery of Intensity Modulated Radiotherapy (IMRT) for Prostate Cancer. <i>Cancer Journal (Sudbury, Mass)</i> , 2002, 8, 476-483.	2.0	75
56	Impact of respiratory motion on worst-case scenario optimized intensity modulated proton therapy for lung cancers. <i>Practical Radiation Oncology</i> , 2015, 5, e77-e86.	2.1	75
57	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, 1325-1337.	0.8	74
58	Quantification of Prostate and Seminal Vesicle Interfraction Variation During IMRT. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 71, 813-820.	0.8	74
59	Evaluation of respiratory-induced target motion for esophageal tumors at the gastroesophageal junction. <i>Radiotherapy and Oncology</i> , 2007, 84, 283-289.	0.6	73
60	An image correlation procedure for digitally reconstructed radiographs and electronic portal images. <i>International Journal of Radiation Oncology Biology Physics</i> , 1995, 33, 1053-1060.	0.8	69
61	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.	0.8	68
62	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-e398.	0.8	67
63	Roadmap: proton therapy physics and biology. <i>Physics in Medicine and Biology</i> , 2021, 66, 05RM01.	3.0	67
64	Dose-volume response analyses of late rectal bleeding after radiotherapy for prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 59, 353-365.	0.8	66
65	Rapid radiographic film calibration for IMRT verification using automated MLC fields. <i>Medical Physics</i> , 2002, 29, 2384-2390.	3.0	64
66	Multi-Institutional Dosimetric Evaluation of Modern Day Stereotactic Radiosurgery (SRS) Treatment Options for Multiple Brain Metastases. <i>Frontiers in Oncology</i> , 2019, 9, 483.	2.8	64
67	Ultrasound-Based Localization. <i>Seminars in Radiation Oncology</i> , 2005, 15, 180-191.	2.2	62
68	Dosimetric accuracy of Kodak EDR2 film for IMRT verifications. <i>Medical Physics</i> , 2005, 32, 539-548.	3.0	61
69	A deformable image registration method to handle distended rectums in prostate cancer radiotherapy. <i>Medical Physics</i> , 2006, 33, 3304-3312.	3.0	61
70	Accuracy of two heterogeneity dose calculation algorithms for IMRT in treatment plans designed using an anthropomorphic thorax phantom. <i>Medical Physics</i> , 2007, 34, 1850-1857.	3.0	60
71	Late Rectal Toxicity on RTOG 94-06: Analysis Using a Mixture Lyman Model. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 78, 1253-1260.	0.8	60
72	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, 1513-1519.	0.8	56

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73	Adaptive Radiation Therapy for Head and Neck Cancer—Can an Old Goal Evolve into a New Standard?. <i>Journal of Oncology</i> , 2011, 2011, 1-13.	1.3	56
74	Dosimetric benefits of robust treatment planning for intensity modulated proton therapy for base-of-skull cancers. <i>Practical Radiation Oncology</i> , 2014, 4, 384-391.	2.1	56
75	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, 561-572.	0.8	55
76	Speed and convergence properties of gradient algorithms for optimization of IMRT. <i>Medical Physics</i> , 2004, 31, 1141-1152.	3.0	53
77	Statistical Assessment of Proton Treatment Plans Under Setup and Range Uncertainties. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 86, 1007-1013.	0.8	53
78	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, 412-418.	0.8	50
79	Dosimetric comparison of four target alignment methods for prostate cancer radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 66, 883-891.	0.8	49
80	Comparison of FLASH Proton Entrance and the Spread-Out Bragg Peak Dose Regions in the Spraying of Mouse Intestinal Crypts and in a Pancreatic Tumor Model. <i>Cancers</i> , 2021, 13, 4244.	3.7	48
81	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, 1255-1264.	0.8	47
82	Modeling respiratory motion for reducing motion artifacts in 4D CT images. <i>Medical Physics</i> , 2013, 40, 041716.	3.0	47
83	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.	3.0	45
84	Toward a better understanding of the gamma index: Investigation of parameters with a surface-based	3.0	44
85	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.	1.9	42
86	Changes in the Pelvic Anatomy After an IMRT Treatment Fraction of Prostate Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 68, 1529-1536.	0.8	41
87	Dose sculpting with generalized equivalent uniform dose. <i>Medical Physics</i> , 2005, 32, 1387-1396.	3.0	40
88	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, 1234-1240.	0.8	39
89	A comparison of tumor motion characteristics between early stage and locally advanced stage lung cancers. <i>Radiotherapy and Oncology</i> , 2012, 104, 33-38.	0.6	39
90	Verification of radiosurgery target point alignment with an electronic portal imaging device (EPID). <i>Medical Physics</i> , 1997, 24, 263-267.	3.0	38

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91	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.	3.0	37
92	Automatic contouring of brachial plexus using a multi-atlas approach for lung cancer radiation therapy. <i>Practical Radiation Oncology</i> , 2013, 3, e139-e147.	2.1	37
93	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, 1586-1591.	0.8	36
94	Position effects of acoustic micro-resonator in quartz enhanced photoacoustic spectroscopy. <i>Sensors and Actuators B: Chemical</i> , 2015, 206, 364-370.	7.8	36
95	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, 251-259.	0.6	35
96	Advantages of simulating thoracic cancer patients in an upright position. <i>Practical Radiation Oncology</i> , 2014, 4, e53-e58.	2.1	35
97	Experience in commissioning the halcyon linac. <i>Medical Physics</i> , 2019, 46, 4304-4313.	3.0	35
98	Current delivery limitations of proton PBS for FLASH. <i>Radiotherapy and Oncology</i> , 2021, 155, 212-218.	0.6	35
99	Retrospective analysis of 2D patient-specific IMRT verifications. <i>Medical Physics</i> , 2005, 32, 838-850.	3.0	34
100	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.	2.7	34
101	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, 191-198.	1.3	33
102	Effectiveness of Using Fewer Implanted Fiducial Markers for Prostate Target Alignment. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 74, 1283-1289.	0.8	33
103	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, 1045-1050.	0.8	33
104	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-e280.	0.8	31
105	Efficiency of respiratory-gated delivery of synchrotron-based pulsed proton irradiation. <i>Physics in Medicine and Biology</i> , 2008, 53, 1947-1959.	3.0	30
106	Current clinical coverage of Radiation Therapy Oncology Group-defined target volumes for postmastectomy radiation therapy. <i>Practical Radiation Oncology</i> , 2012, 2, 201-209.	2.1	30
107	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, 196-206.	1.9	30
108	AAPM Task Group Report 290: Respiratory motion management for particle therapy. <i>Medical Physics</i> , 2022, 49, .	3.0	30

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109	Auto-segmentation of low-risk clinical target volume for head and neck radiation therapy. <i>Practical Radiation Oncology</i> , 2014, 4, e31-e37.	2.1	28
110	Robust beam orientation optimization for intensity-modulated proton therapy. <i>Medical Physics</i> , 2019, 46, 3356-3370.	3.0	28
111	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.	2.8	28
112	A novel energy layer optimization framework for spot-scanning proton arc therapy. <i>Medical Physics</i> , 2020, 47, 2072-2084.	3.0	27
113	Cluster models of dose-volume effects. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 59, 1491-1504.	0.8	26
114	Comparison of Treatment Volumes and Techniques in Prostate Cancer Radiation Therapy. <i>American Journal of Clinical Oncology: Cancer Clinical Trials</i> , 2005, 28, 618-625.	1.3	26
115	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.	0.8	26
116	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, 390-395.	0.8	26
117	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, 473-480.	0.8	25
118	Evaluation of Tumor Position and PTV Margins Using Image Guidance and Respiratory Gating. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 76, 1578-1585.	0.8	24
119	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, 14-19.	0.8	23
120	Spine SBRT With Halcyon: Plan Quality, Modulation Complexity, Delivery Accuracy, and Speed. <i>Frontiers in Oncology</i> , 2019, 9, 319.	2.8	23
121	High-sensitivity, large dynamic range, auto-calibration methane optical sensor using a short confocal Fabry-Perot cavity. <i>Sensors and Actuators B: Chemical</i> , 2007, 127, 350-357.	7.8	22
122	Statistical Modeling Approach to Quantitative Analysis of Interobserver Variability in Breast Contouring. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 89, 214-221.	0.8	22
123	A Super-Learner Model for Tumor Motion Prediction and Management in Radiation Therapy: Development and Feasibility Evaluation. <i>Scientific Reports</i> , 2019, 9, 14868.	3.3	22
124	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.	3.0	22
125	Cherenkov imaging for total skin electron therapy (TSET). <i>Medical Physics</i> , 2020, 47, 201-212.	3.0	22
126	A pencil-beam photon dose algorithm for stereotactic radiosurgery using a miniature multileaf collimator. <i>Medical Physics</i> , 1998, 25, 841-850.	3.0	21

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127	Anatomic distribution of [18 F] fluorodeoxyglucose-avid lymph nodes in patients with cervical cancer. <i>Practical Radiation Oncology</i> , 2013, 3, 45-53.	2.1	21
128	Automated Knowledge-Based Intensity-Modulated Proton Planning: An International Multicenter Benchmarking Study. <i>Cancers</i> , 2018, 10, 420.	3.7	21
129	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.	2.2	21
130	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.	0.5	21
131	<i>Medical Physics</i> , 2012, 39, 5136-5144.	3.0	20
132	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
133	Improving accuracy of electron density measurement in the presence of metallic implants using orthovoltage computed tomography. <i>Medical Physics</i> , 2008, 35, 1932-1941.	3.0	19
134	Metabolic Imaging Biomarkers of Postradiotherapy Xerostomia. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 83, 1609-1616.	0.8	19
135	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.	1.9	19
136	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
137	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.	1.2	18
138	A sensitivity-guided algorithm for automated determination of IMRT objective function parameters. <i>Medical Physics</i> , 2006, 33, 2935-2944.	3.0	17
139	A serial 4DCT study to quantify range variations in charged particle radiotherapy of thoracic cancers. <i>Journal of Radiation Research</i> , 2014, 55, 309-319.	1.6	17
140	Development of Ultra-High Dose-Rate (FLASH) Particle Therapy. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2022, 6, 252-262.	3.7	17
141	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
142	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
143	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
144	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, 939-948.	0.8	15

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145	Linear energy transfer weighted beam orientation optimization for intensity-modulated proton therapy. <i>Medical Physics</i> , 2021, 48, 57-70.	3.0	15
146	High-dose intensity modulated radiation therapy for prostate cancer. <i>Current Urology Reports</i> , 2004, 5, 197-202.	2.2	14
147	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-N275.	3.0	14
148	The precision of respiratory-gated delivery of synchrotron-based pulsed beam proton therapy. <i>Physics in Medicine and Biology</i> , 2010, 55, 7633-7647.	3.0	14
149	Fast range-corrected proton dose approximation method using prior dose distribution. <i>Physics in Medicine and Biology</i> , 2012, 57, 3555-3569.	3.0	14
150	A technique to use CT images for <i>in vivo</i> detection and quantification of the spatial distribution of radiation-induced esophagitis. <i>Journal of Applied Clinical Medical Physics</i> , 2013, 14, 91-98.	1.9	14
151	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.	1.9	14
152	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.	1.9	14
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