Lei Dong

List of Publications by Year in Descending Order

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	Advanced Topics in Particle Radiotherapy. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2022**, 1-1	4.2	
197	Management of Motion and Anatomical Variations in Charged Particle Therapy: Past, Present, and Into the Future.. *Frontiers in Oncology*, **2022**, 12, 806153	5.3	2
196	Deep learning for automatic target volume segmentation in radiation therapy: a review. *Quantitative Imaging in Medicine and Surgery*, **2021**, 11, 4847-4858	3.6	3
195	Simultaneous Multiple Liver Metastasis Treated with Pencil Beam Proton Stereotactic Body Radiotherapy (SBRT). *International Journal of Particle Therapy*, **2021**, 8, 89-94	1.5	2
194	Dual-Energy Computed Tomography Proton-Dose Calculation with Scripting and Modified Hounsfield Units. *International Journal of Particle Therapy*, **2021**, 8, 62-72	1.5	0
193	Characterization of a high-resolution 2D transmission ion chamber for independent validation of proton pencil beam scanning of conventional and FLASH dose delivery. *Medical Physics*, **2021**, 48, 3948-3957	4.4	1
192	Linear energy transfer weighted beam orientation optimization for intensity-modulated proton therapy. *Medical Physics*, **2021**, 48, 57-70	4.4	1
191	Current delivery limitations of proton PBS for FLASH. *Radiotherapy and Oncology*, **2021**, 155, 212-218	5.3	15
190	Evaluation of Two-voltage and Three-voltage Linear Methods for Deriving Ion Recombination Correction Factors in Proton FLASH Irradiation. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2021**, 1-1	4.2	2
189	Development of Ultra-High Dose Rate (FLASH) Particle Therapy. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2021**, 1-1	4.2	6
188	Tissue-specific deformable image registration using a spatial-contextual filter. *Computerized Medical Imaging and Graphics*, **2021**, 88, 101849	7.6	1
187	FLASH Proton Radiotherapy Spares Normal Epithelial and Mesenchymal Tissues While Preserving Sarcoma Response. *Cancer Research*, **2021**, 81, 4808-4821	10.1	13
186	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. *Cancers*, **2021**, 13,	6.6	6
185	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	
184	Initial Clinical Experience Treating Patients With Gynecologic Cancers on a 6MV Flattening Filter Free O-Ring Linear Accelerator. *Advances in Radiation Oncology*, **2020**, 5, 920-928	3.3	2
183	Fraction-variant beam orientation optimization for intensity-modulated proton therapy. *Medical Physics*, **2020**, 47, 3826-3834	4.4	2
182	A novel energy layer optimization framework for spot-scanning proton arc therapy. *Medical Physics*, **2020**, 47, 2072-2084	4.4	9

181	Long-term Inter-protocol kV CBCT image quality assessment for a ring-gantry linac via automated QA approach. *Biomedical Physics and Engineering Express*, **2020**, 6, 015025	1.5	1
180	Design, Implementation, and in Vivo Validation of a Novel Proton FLASH Radiation Therapy System. *International Journal of Radiation Oncology Biology Physics*, **2020**, 106, 440-448	4	123
179	Initial Clinical Experience Treating Patients With Lung Cancer on a 6MV-Flattening-Filter-Free O-Ring Linear Accelerator. *Cureus*, **2020**, 12, e10325	1.2	1
178	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. *Cureus*, **2020**, 12, e9660	1.2	7
177	Cherenkov imaging for total skin electron therapy (TSET). *Medical Physics*, **2020**, 47, 201-212	4.4	7
176	Technical Note: Dosimetric characterization of the dynamic beam flattening MLC sequence on a ring shaped, Jawless Linear Accelerator with double stacked MLC. *Medical Physics*, **2020**, 47, 948-957	4.4	2
175	Inter-fraction robustness of intensity-modulated proton therapy in the post-operative treatment of oropharyngeal and oral cavity squamous cell carcinomas. *British Journal of Radiology*, **2020**, 93, 20190638	2.4	7
174	Initial clinical experience treating patients with palliative radiotherapy for malignant pleural mesothelioma on the HalcyonTM linear accelerator. *Annals of Palliative Medicine*, **2020**, 9, 2903-2912	1.7	1
173	Dose to Highly Functional Ventilation Zones Improves Prediction of Radiation Pneumonitis for Proton and Photon Lung Cancer Radiation Therapy. *International Journal of Radiation Oncology Biology Physics*, **2020**, 107, 79-87	4	8
172	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. *Radiation Oncology*, **2020**, 15, 258	4.2	
171	Higher Dose Volumes May Be Better for Evaluating Radiation Pneumonitis in Lung Proton Therapy Patients Compared With Traditional Photon-Based Dose Constraints. *Advances in Radiation Oncology*, **2020**, 5, 943-950	3.3	1
170	Evaluation of an scatter correction algorithm for cone-beam computed tomography based range and dose calculations in proton therapy. *Physics and Imaging in Radiation Oncology*, **2020**, 16, 89-94	3.1	3
169	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. *Advances in Radiation Oncology*, **2020**, 5, 120-126	3.3	11
168	Roadmap: proton therapy physics and biology. *Physics in Medicine and Biology*, **2020**,	3.8	17
167	Initial Clinical Experience Treating Patients with Breast Cancer on a 6-MV Flattening-Filter-Free O-Ring Linear Accelerator. *Advances in Radiation Oncology*, **2019**, 4, 571-578	3.3	10
166	Report of the AAPM TG-256 on the relative biological effectiveness of proton beams in radiation therapy. *Medical Physics*, **2019**, 46, e53-e78	4.4	98
165	Robust beam orientation optimization for intensity-modulated proton therapy. *Medical Physics*, **2019**, 46, 3356-3370	4.4	13
164	Characterization of the Megavoltage Cone-Beam Computed Tomography (MV-CBCT) System on Halcyon for IGRT: Image Quality Benchmark, Clinical Performance, and Organ Doses. *Frontiers in Oncology*, **2019**, 9, 496	5.3	8

163	Multi-Institutional Dosimetric Evaluation of Modern Day Stereotactic Radiosurgery (SRS) Treatment Options for Multiple Brain Metastases. *Frontiers in Oncology*, **2019**, 9, 483	5.3	33
162	Design and commissioning of an image-guided small animal radiation platform and quality assurance protocol for integrated proton and x-ray radiobiology research. *Physics in Medicine and Biology*, **2019**, 64, 135013	3.8	13
161	Spine SBRT With Halcyon™ Plan Quality, Modulation Complexity, Delivery Accuracy, and Speed. *Frontiers in Oncology*, **2019**, 9, 319	5.3	13
160	Influence of intravenous contrast agent on dose calculation in proton therapy using dual energy CT. *Physics in Medicine and Biology*, **2019**, 64, 125024	3.8	11
159	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	5.3	16
158	Experience in commissioning the halcyon linac. *Medical Physics*, **2019**, 46, 4304-4313	4.4	16
157	Dosimetric impact and detectability of multi-leaf collimator positioning errors on Varian Halcyon. *Journal of Applied Clinical Medical Physics*, **2019**, 20, 47-55	2.3	6
156	A Super-Learner Model for Tumor Motion Prediction and Management in Radiation Therapy: Development and Feasibility Evaluation. *Scientific Reports*, **2019**, 9, 14868	4.9	11
155	Piezo-enhanced acoustic detection module for mid-infrared trace gas sensing using a grooved quartz tuning fork. *Optics Express*, **2019**, 27, 35267-35278	3.3	11
154	Dosimetric Characterization of the Dual Layer MLC System for an O-Ring Linear Accelerator. *Technology in Cancer Research and Treatment*, **2019**, 18, 1533033819883641	2.7	8
153	On-line dose-guidance to account for inter-fractional motion during proton therapy. *Physics and Imaging in Radiation Oncology*, **2019**, 9, 7-13	3.1	4
152	Robust optimization for intensity-modulated proton therapy with soft spot sensitivity regularization. *Medical Physics*, **2019**, 46, 1408-1425	4.4	7
151	Integrated beam orientation and scanning-spot optimization in intensity-modulated proton therapy for brain and unilateral head and neck tumors. *Medical Physics*, **2018**, 45, 1338-1350	4.4	29
150	Current State of Image Guidance in Radiation Oncology: Implications for PTV Margin Expansion and Adaptive Therapy. *Seminars in Radiation Oncology*, **2018**, 28, 238-247	5.5	13
149	Impact of Multi-leaf Collimator Parameters on Head and Neck Plan Quality and Delivery: A Comparison between Halcyon™ and Truebeam™ Treatment Delivery Systems. *Cureus*, **2018**, 10, e3648	1.2	15
148	Technical Note: Solving the "Chinese postman problem" for effective contour deformation. *Medical Physics*, **2018**, 45, 767-772	4.4	
147	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. *Cureus*, **2018**, 10, e3510	1.2	9
146	Automated Knowledge-Based Intensity-Modulated Proton Planning: An International Multicenter Benchmarking Study. *Cancers*, **2018**, 10,	6.6	13

145	Efficient double-scattering proton therapy with a patient-specific bolus. *Physica Medica*, **2018**, 50, 1-6	2.7	1
144	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	4	111
143	Field-Specific Intensity-modulated Proton Therapy Optimization Technique for Breast Cancer Patients with Tissue Expanders Containing Metal Ports. *Cureus*, **2017**, 9, e1698	1.2	4
142	Comparison of multi-institutional Varian ProBeam pencil beam scanning proton beam commissioning data. *Journal of Applied Clinical Medical Physics*, **2017**, 18, 96-107	2.3	31
141	Impact of fractionation and number of fields on dose homogeneity for intra-fractionally moving lung tumors using scanned carbon ion treatment. *Radiotherapy and Oncology*, **2016**, 118, 498-503	5.3	7
140	Learning anatomy changes from patient populations to create artificial CT images for voxel-level validation of deformable image registration. *Journal of Applied Clinical Medical Physics*, **2016**, 17, 246-258	2.3	11
139	Perturbation of water-equivalent thickness as a surrogate for respiratory motion in proton therapy. *Journal of Applied Clinical Medical Physics*, **2016**, 17, 368-378	2.3	13
138	Improved human observer performance in digital reconstructed radiograph verification in head and neck cancer radiotherapy. *International Journal of Computer Assisted Radiology and Surgery*, **2015**, 10, 1667-73	3.9	4
137	Impact of respiratory motion on worst-case scenario optimized intensity modulated proton therapy for lung cancers. *Practical Radiation Oncology*, **2015**, 5, e77-86	2.8	54
136	Position effects of acoustic micro-resonator in quartz enhanced photoacoustic spectroscopy. *Sensors and Actuators B: Chemical*, **2015**, 206, 364-370	8.5	32
135	Digital reconstruction of high-quality daily 4D cone-beam CT images using prior knowledge of anatomy and respiratory motion. *Computerized Medical Imaging and Graphics*, **2015**, 40, 30-8	7.6	7
134	Predicting oropharyngeal tumor volume throughout the course of radiation therapy from pretreatment computed tomography data using general linear models. *Medical Physics*, **2014**, 41, 051705	4.4	5
133	Advantages of simulating thoracic cancer patients in an upright position. *Practical Radiation Oncology*, **2014**, 4, e53-8	2.8	19
132	Statistical modeling approach to quantitative analysis of interobserver variability in breast contouring. *International Journal of Radiation Oncology Biology Physics*, **2014**, 89, 214-21	4	17
131	A six-year review of more than 13,000 patient-specific IMRT QA results from 13 different treatment sites. *Journal of Applied Clinical Medical Physics*, **2014**, 15, 4935	2.3	21
130	Forecasting longitudinal changes in oropharyngeal tumor morphology throughout the course of head and neck radiation therapy. *Medical Physics*, **2014**, 41, 081708	4.4	2
129	A serial 4DCT study to quantify range variations in charged particle radiotherapy of thoracic cancers. *Journal of Radiation Research*, **2014**, 55, 309-19	2.4	16
128	Dosimetric benefits of robust treatment planning for intensity modulated proton therapy for base-of-skull cancers. *Practical Radiation Oncology*, **2014**, 4, 384-91	2.8	46

127	Auto-segmentation of low-risk clinical target volume for head and neck radiation therapy. *Practical Radiation Oncology*, **2014**, 4, e31-7	2.8	20
126	Image guided radiation therapy (IGRT) technologies for radiation therapy localization and delivery. *International Journal of Radiation Oncology Biology Physics*, **2013**, 87, 33-45	4	82
125	Patterns of disease recurrence following treatment of oropharyngeal cancer with intensity modulated radiation therapy. *International Journal of Radiation Oncology Biology Physics*, **2013**, 85, 941-7	4	88
124	Modeling respiratory motion for reducing motion artifacts in 4D CT images. *Medical Physics*, **2013**, 40, 041716	4.4	43
123	Anatomic variation and dosimetric consequences of neoadjuvant hormone therapy before radiation therapy for prostate cancer. *Practical Radiation Oncology*, **2013**, 3, 329-36	2.8	1
122	Anatomic distribution of [(18)F] fluorodeoxyglucose-avid lymph nodes in patients with cervical cancer. *Practical Radiation Oncology*, **2013**, 3, 45-53	2.8	18
121	Anatomic distribution of fluorodeoxyglucose-avid para-aortic lymph nodes in patients with cervical cancer. *International Journal of Radiation Oncology Biology Physics*, **2013**, 85, 1045-50	4	28
120	Osteoradionecrosis and radiation dose to the mandible in patients with oropharyngeal cancer. *International Journal of Radiation Oncology Biology Physics*, **2013**, 85, 415-20	4	146
119	Oncology Scan□Improvements in Dose Calculation, Deformable Registration, and MR-Guided Radiation Delivery. *International Journal of Radiation Oncology Biology Physics*, **2013**, 86, 395-397	4	5
118	Adaptive radiotherapy for head and neck cancer--dosimetric results from a prospective clinical trial. *Radiotherapy and Oncology*, **2013**, 106, 80-4	5.3	123
117	Automatic contouring of brachial plexus using a multi-atlas approach for lung cancer radiotherapy. *Practical Radiation Oncology*, **2013**, 3,	2.8	29
116	Physics controversies in proton therapy. *Seminars in Radiation Oncology*, **2013**, 23, 88-96	5.5	105
115	Anisotropic margin expansions in 6 anatomic directions for oropharyngeal image guided radiation therapy. *International Journal of Radiation Oncology Biology Physics*, **2013**, 87, 596-601	4	8
114	Statistical assessment of proton treatment plans under setup and range uncertainties. *International Journal of Radiation Oncology Biology Physics*, **2013**, 86, 1007-13	4	45
113	Effectiveness of robust optimization in intensity-modulated proton therapy planning for head and neck cancers. *Medical Physics*, **2013**, 40, 051711	4.4	96
112	A technique to use CT images for in vivo detection and quantification of the spatial distribution of radiation-induced esophagitis. *Journal of Applied Clinical Medical Physics*, **2013**, 14, 4195	2.3	12
111	A novel dose-based positioning method for CT image-guided proton therapy. *Medical Physics*, **2013**, 40, 051714	4.4	13
110	Assessment of shoulder position variation and its impact on IMRT and VMAT doses for head and neck cancer. *Radiation Oncology*, **2012**, 7, 19	4.2	23

109	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, e329-36	4	114
108	Dose constraints to prevent radiation-induced brachial plexopathy in patients treated for lung cancer. *International Journal of Radiation Oncology Biology Physics*, **2012**, 82, e391-8	4	48
107	Adaptive radiotherapy for head-and-neck cancer: initial clinical outcomes from a prospective trial. *International Journal of Radiation Oncology Biology Physics*, **2012**, 83, 986-93	4	152
106	Metabolic imaging biomarkers of postradiotherapy xerostomia. *International Journal of Radiation Oncology Biology Physics*, **2012**, 83, 1609-16	4	14
105	Do intermediate radiation doses contribute to late rectal toxicity? An analysis of data from radiation therapy oncology group protocol 94-06. *International Journal of Radiation Oncology Biology Physics*, **2012**, 84, 390-5	4	25
104	Quantifying the interfractional displacement of the gastroesophageal junction during radiation therapy for esophageal cancer. *International Journal of Radiation Oncology Biology Physics*, **2012**, 83, e273-80	4	25
103	Current clinical coverage of Radiation Therapy Oncology Group-defined target volumes for postmastectomy radiation therapy. *Practical Radiation Oncology*, **2012**, 2, 201-209	2.8	23
102	An evidence based review of proton beam therapy: the report of ASTRO's emerging technology committee. *Radiotherapy and Oncology*, **2012**, 103, 8-11	5.3	175
101	A comparison of tumor motion characteristics between early stage and locally advanced stage lung cancers. *Radiotherapy and Oncology*, **2012**, 104, 33-8	5.3	26
100	Use of fractional dose-volume histograms to model risk of acute rectal toxicity among patients treated on RTOG 94-06. *Radiotherapy and Oncology*, **2012**, 104, 109-13	5.3	9
99	Quality assurance for image-guided radiation therapy utilizing CT-based technologies: a report of the AAPM TG-179. *Medical Physics*, **2012**, 39, 1946-63	4.4	174
98	Comprehensive analysis of proton range uncertainties related to patient stopping-power-ratio estimation using the stoichiometric calibration. *Physics in Medicine and Biology*, **2012**, 57, 4095-115	3.8	213
97	A statistical modeling approach for evaluating auto-segmentation methods for image-guided radiotherapy. *Computerized Medical Imaging and Graphics*, **2012**, 36, 492-500	7.6	11
96	Fast range-corrected proton dose approximation method using prior dose distribution. *Physics in Medicine and Biology*, **2012**, 57, 3555-69	3.8	13
95	Variable planning margin approach to account for locoregional variations in setup uncertainties. *Medical Physics*, **2012**, 39, 5136-44	4.4	16
94	Automating RTOG-defined target volumes for postmastectomy radiation therapy. *Practical Radiation Oncology*, **2011**, 1, 97-104	2.8	2
93	Dosimetry tools and techniques for IMRT. *Medical Physics*, **2011**, 38, 1313-38	4.4	280
92	Toward a better understanding of the gamma index: Investigation of parameters with a surface-based distance method. *Medical Physics*, **2011**, 38, 6730-41	4.4	31

91	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, 1336-42	4	99
90	Estimation of α/β for late rectal toxicity based on RTOG 94-06. *International Journal of Radiation Oncology Biology Physics*, **2011**, 81, 600-5	4	63
89	Adaptive radiation therapy for head and neck cancer-can an old goal evolve into a new standard?. *Journal of Oncology*, **2011**, 2011,	4.5	47
88	Daily alignment results of in-room computed tomography-guided stereotactic body radiation therapy for lung cancer. *International Journal of Radiation Oncology Biology Physics*, **2011**, 79, 473-80	4	21
87	The precision of respiratory-gated delivery of synchrotron-based pulsed beam proton therapy. *Physics in Medicine and Biology*, **2010**, 55, 7633-47	3.8	13
86	A CT-based software tool for evaluating compensator quality in passively scattered proton therapy. *Physics in Medicine and Biology*, **2010**, 55, 6759-71	3.8	10
85	Evaluation of tumor position and PTV margins using image guidance and respiratory gating. *International Journal of Radiation Oncology Biology Physics*, **2010**, 76, 1578-85	4	23
84	Lack of correlation between external fiducial positions and internal tumor positions during breath-hold CT. *International Journal of Radiation Oncology Biology Physics*, **2010**, 76, 1586-91	4	32
83	Candidate dosimetric predictors of long-term swallowing dysfunction after oropharyngeal intensity-modulated radiotherapy. *International Journal of Radiation Oncology Biology Physics*, **2010**, 78, 1356-65	4	130
82	Late rectal toxicity on RTOG 94-06: analysis using a mixture Lyman model. *International Journal of Radiation Oncology Biology Physics*, **2010**, 78, 1253-60	4	47
81	A volumetric trend analysis of the prostate and seminal vesicles during a course of intensity-modulated radiation therapy. *American Journal of Clinical Oncology: Cancer Clinical Trials*, **2010**, 33, 173-5	2.7	6
80	Effectiveness of using fewer implanted fiducial markers for prostate target alignment. *International Journal of Radiation Oncology Biology Physics*, **2009**, 74, 1283-9	4	30
79	Automatic segmentation of whole breast using atlas approach and deformable image registration. *International Journal of Radiation Oncology Biology Physics*, **2009**, 73, 1493-500	4	81
78	Tumor-volume simulation during radiotherapy for head-and-neck cancer using a four-level cell population model. *International Journal of Radiation Oncology Biology Physics*, **2009**, 75, 595-602	4	23
77	Efficiency of respiratory-gated delivery of synchrotron-based pulsed proton irradiation. *Physics in Medicine and Biology*, **2008**, 53, 1947-59	3.8	29
76	Improving accuracy of electron density measurement in the presence of metallic implants using orthovoltage computed tomography. *Medical Physics*, **2008**, 35, 1932-41	4.4	15
75	Image-guided radiation therapy for non-small cell lung cancer. *Journal of Thoracic Oncology*, **2008**, 3, 177-86	8.9	88
74	A technique for reducing patient setup uncertainties by aligning and verifying daily positioning of a moving tumor using implanted fiducials. *Journal of Applied Clinical Medical Physics*, **2008**, 9, 110-122	2.3	5

73	Objective assessment of deformable image registration in radiotherapy: a multi-institution study. *Medical Physics*, **2008**, 35, 5944-53	4.4	116
72	Proton radiotherapy for liver tumors: dosimetric advantages over photon plans. *Medical Dosimetry*, **2008**, 33, 259-67	1.3	69
71	Stereotactic body radiation therapy in centrally and superiorly located stage I or isolated recurrent non-small-cell lung cancer. *International Journal of Radiation Oncology Biology Physics*, **2008**, 72, 967-71	4	208
70	Long-term results of the M. D. Anderson randomized dose-escalation trial for prostate cancer. *International Journal of Radiation Oncology Biology Physics*, **2008**, 70, 67-74	4	951
69	Quantification of prostate and seminal vesicle interfraction variation during IMRT. *International Journal of Radiation Oncology Biology Physics*, **2008**, 71, 813-20	4	60
68	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, 916-25	4	100
67	Daily bone alignment with limited repeat CT correction rivals daily ultrasound alignment for prostate radiotherapy. *International Journal of Radiation Oncology Biology Physics*, **2008**, 71, 274-80	4	3
66	Improving soft-tissue contrast in four-dimensional computed tomography images of liver cancer patients using a deformable image registration method. *International Journal of Radiation Oncology Biology Physics*, **2008**, 72, 201-9	4	11
65	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, 210-9	4	85
64	Disease-control rates following intensity-modulated radiation therapy for small primary oropharyngeal carcinoma. *International Journal of Radiation Oncology Biology Physics*, **2007**, 67, 438-44	4	117
63	Reducing metal artifacts in cone-beam CT images by preprocessing projection data. *International Journal of Radiation Oncology Biology Physics*, **2007**, 67, 924-32	4	175
62	Effect of anatomic motion on proton therapy dose distributions in prostate cancer treatment. *International Journal of Radiation Oncology Biology Physics*, **2007**, 67, 620-9	4	77
61	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, 1059-65	4	110
60	4D Proton treatment planning strategy for mobile lung tumors. *International Journal of Radiation Oncology Biology Physics*, **2007**, 67, 906-14	4	164
59	Assessing respiration-induced tumor motion and internal target volume using four-dimensional computed tomography for radiotherapy of lung cancer. *International Journal of Radiation Oncology Biology Physics*, **2007**, 68, 531-40	4	266
58	Changes in the pelvic anatomy after an IMRT treatment fraction of prostate cancer. *International Journal of Radiation Oncology Biology Physics*, **2007**, 68, 1529-36	4	35
57	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, 1512-21	4	97
56	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, 1290-6	4	112

55	The distribution of motilin receptor in the amygdala of rats and its role in migrating myoelectric complex. *Journal of Medical Colleges of PLA*, **2007**, 22, 329-336		1
54	High-sensitivity, large dynamic range, auto-calibration methane optical sensor using a short confocal Fabry–Perot cavity. *Sensors and Actuators B: Chemical*, **2007**, 127, 350-357	8.5	21
53	A novel patch-field design using an optimized grid filter for passively scattered proton beams. *Physics in Medicine and Biology*, **2007**, 52, N265-75	3.8	13
52	Monte Carlo simulations of the dosimetric impact of radiopaque fiducial markers for proton radiotherapy of the prostate. *Physics in Medicine and Biology*, **2007**, 52, 2937-52	3.8	71
51	The effect of dental artifacts, contrast media, and experience on interobserver contouring variations in head and neck anatomy. *American Journal of Clinical Oncology: Cancer Clinical Trials*, **2007**, 30, 191-8	2.7	25
50	Evaluation of respiratory-induced target motion for esophageal tumors at the gastroesophageal junction. *Radiotherapy and Oncology*, **2007**, 84, 283-9	5.3	66
49	Is a 3-mm intrafractional margin sufficient for daily image-guided intensity-modulated radiation therapy of prostate cancer?. *Radiotherapy and Oncology*, **2007**, 85, 251-9	5.3	29
48	Accuracy of two heterogeneity dose calculation algorithms for IMRT in treatment plans designed using an anthropomorphic thorax phantom. *Medical Physics*, **2007**, 34, 1850-7	4.4	53
47	A deformable image registration method to handle distended rectums in prostate cancer radiotherapy. *Medical Physics*, **2006**, 33, 3304-12	4.4	57
46	A sensitivity-guided algorithm for automated determination of IMRT objective function parameters. *Medical Physics*, **2006**, 33, 2935-44	4.4	15
45	Cluster model analysis of late rectal bleeding after IMRT of prostate cancer: a case-control study. *International Journal of Radiation Oncology Biology Physics*, **2006**, 64, 1255-64	4	41
44	Multiple regions-of-interest analysis of setup uncertainties for head-and-neck cancer radiotherapy. *International Journal of Radiation Oncology Biology Physics*, **2006**, 64, 1559-69	4	141
43	Beam angle optimization and reduction for intensity-modulated radiation therapy of non-small-cell lung cancers. *International Journal of Radiation Oncology Biology Physics*, **2006**, 65, 561-72	4	51
42	Dosimetric comparison of four target alignment methods for prostate cancer radiotherapy. *International Journal of Radiation Oncology Biology Physics*, **2006**, 66, 883-91	4	48
41	Dosimetric verification for intensity-modulated radiotherapy of thoracic cancers using experimental and Monte Carlo approaches. *International Journal of Radiation Oncology Biology Physics*, **2006**, 66, 939-48	4	13
40	Validation of an accelerated 'demons' algorithm for deformable image registration in radiation therapy. *Physics in Medicine and Biology*, **2005**, 50, 2887-905	3.8	459
39	Dose sculpting with generalized equivalent uniform dose. *Medical Physics*, **2005**, 32, 1387-96	4.4	34
38	Comparison of treatment volumes and techniques in prostate cancer radiation therapy. *American Journal of Clinical Oncology: Cancer Clinical Trials*, **2005**, 28, 618-25	2.7	20

37	Assessing the impact of an alternative biochemical failure definition on radiation dose response for high-risk prostate cancer treated with external beam radiotherapy. *International Journal of Radiation Oncology Biology Physics*, **2005**, 61, 14-9	4	23
36	Implementation and validation of a three-dimensional deformable registration algorithm for targeted prostate cancer radiotherapy. *International Journal of Radiation Oncology Biology Physics*, **2005**, 61, 725-35	4	152
35	Dose-response characteristics of low- and intermediate-risk prostate cancer treated with external beam radiotherapy. *International Journal of Radiation Oncology Biology Physics*, **2005**, 61, 993-1002	4	62
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, 154-63	4	111
33	Increased risk of biochemical and local failure in patients with distended rectum on the planning CT for prostate cancer radiotherapy. *International Journal of Radiation Oncology Biology Physics*, **2005**, 62, 965-73	4	312
32	Use of deformed intensity distributions for on-line modification of image-guided IMRT to account for interfractional anatomic changes. *International Journal of Radiation Oncology Biology Physics*, **2005**, 61, 1258-66	4	191
31	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	4	110
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