

Paul Keall

List of Publications by Year in descending order

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427
papers

16,592
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20634

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h-index

22041

114
g-index

433
all docs

433
docs citations

433
times ranked

8394
citing authors

#	ARTICLE	IF	CITATIONS
1	Physics, 2006, 33, 3874-3900.	2.9	1,882
2	Stereotactic body radiation therapy: The report of AAPM Task Group 101. Medical Physics, 2010, 37, 4078-4101.	2.9	1,700
3	Report of the AAPM Task Group No. 105: Issues associated with clinical implementation of Monte Carlo-based photon and electron external beam treatment planning. Medical Physics, 2007, 34, 4818-4853.	2.9	572
4	4-dimensional computed tomography imaging and treatment planning. Seminars in Radiation Oncology, 2004, 14, 81-90.	2.3	446
5	The Australian Magnetic Resonance Imaging-Linac Program. Seminars in Radiation Oncology, 2014, 24, 203-206.	2.3	311
6	Four-dimensional radiotherapy planning for DMLC-based respiratory motion tracking. Medical Physics, 2005, 32, 942-951.	2.9	276
7	Patient training in respiratory-gated radiotherapy. Medical Dosimetry, 2003, 28, 7-11.	0.8	226
8	Dosimetric considerations for patients with HIP prostheses undergoing pelvic irradiation. Report of the AAPM Radiation Therapy Committee Task Group 63. Medical Physics, 2003, 30, 1162-1182.	2.9	223
9	Audio-visual biofeedback for respiratory-gated radiotherapy: Impact of audio instruction and audio-visual biofeedback on respiratory-gated radiotherapy. International Journal of Radiation Oncology Biology Physics, 2006, 65, 924-933.	0.8	222
10	Retrospective Analysis of Artifacts in Four-Dimensional CT Images of 50 Abdominal and Thoracic Radiotherapy Patients. International Journal of Radiation Oncology Biology Physics, 2008, 72, 1250-1258.	0.8	220
11	Geometric accuracy of a real-time target tracking system with dynamic multileaf collimator tracking system. International Journal of Radiation Oncology Biology Physics, 2006, 65, 1579-1584.	0.8	163
12	An analysis of thoracic and abdominal tumour motion for stereotactic body radiotherapy patients. Physics in Medicine and Biology, 2008, 53, 3623-3640.	3.0	161
13	Management of three-dimensional intrafraction motion through real-time DMLC tracking. Medical Physics, 2008, 35, 2050-2061.	2.9	153
14	Hypofractionation Results in Reduced Tumor Cell Kill Compared to Conventional Fractionation for Tumors With Regions of Hypoxia. International Journal of Radiation Oncology Biology Physics, 2011, 79, 1188-1195.	0.8	152
15	Real-time intrafraction motion monitoring in external beam radiotherapy. Physics in Medicine and Biology, 2019, 64, 15TR01.	3.0	141
16	The first clinical implementation of electromagnetic transponder-guided MLC tracking. Medical Physics, 2014, 41, 020702.	2.9	137
17	Impact of Four-Dimensional Computed Tomography Pulmonary Ventilation Imaging-Based Functional Avoidance for Lung Cancer Radiotherapy. International Journal of Radiation Oncology Biology Physics, 2011, 79, 279-288.	0.8	131
18	Monte Carlo computation of dosimetric amorphous silicon electronic portal images. Medical Physics, 2004, 31, 2135-2146.	2.9	116

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19	First Demonstration of Combined kV/MV Image-Guided Real-Time Dynamic Multileaf-Collimator Target Tracking. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 74, 859-867.	0.8	114
20	A new formula for normal tissue complication probability (NTCP) as a function of equivalent uniform dose (EUD). <i>Physics in Medicine and Biology</i> , 2008, 53, 23-36.	3.0	113
21	Tumor and normal tissue motion in the thorax during respiration: Analysis of volumetric and positional variations using 4D CT. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 67, 296-307.	0.8	108
22	Medical physics challenges in clinical MR-guided radiotherapy. <i>Radiation Oncology</i> , 2020, 15, 93.	2.7	106
23	A method for photon beam Monte Carlo multileaf collimator particle transport. <i>Physics in Medicine and Biology</i> , 2002, 47, 3225-3249.	3.0	104
24	Future of medical physics: Real-time MRI-guided proton therapy. <i>Medical Physics</i> , 2017, 44, e77-e90.	2.9	104
25	Comparisons between MCNP, EGS4 and experiment for clinical electron beams. <i>Physics in Medicine and Biology</i> , 1999, 44, 705-717.	3.0	102
26	A method for determining multileaf collimator transmission and scatter for dynamic intensity modulated radiotherapy. <i>Medical Physics</i> , 2000, 27, 2231-2241.	2.9	101
27	Toward Submillimeter Accuracy in the Management of Intrafraction Motion: The Integration of Real-Time Internal Position Monitoring and Multileaf Collimator Target Tracking. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 74, 575-582.	0.8	100
28	The effect of dose calculation accuracy on inverse treatment planning. <i>Physics in Medicine and Biology</i> , 2002, 47, 391-407.	3.0	96
29	Kilovoltage Intrafraction Monitoring for Prostate Intensity Modulated Arc Therapy: First Clinical Results. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 84, e655-e661.	0.8	96
30	Modeling the TrueBeam linac using a CAD to Geant4 geometry implementation: Dose and IAEA-compliant phase space calculations. <i>Medical Physics</i> , 2011, 38, 4018-4024.	2.9	94
31	A Monte Carlo study of radiation transport through multileaf collimators. <i>Medical Physics</i> , 2001, 28, 2497-2506.	2.9	93
32	Determining the incident electron fluence for Monte Carlo-based photon treatment planning using a standard measured data set. <i>Medical Physics</i> , 2003, 30, 574-582.	2.9	93
33	A method of dose reconstruction for moving targets compatible with dynamic treatments. <i>Medical Physics</i> , 2012, 39, 6237-6246.	2.9	88
34	Design and evaluation of a variable aperture collimator for conformal radiotherapy of small animals using a microCT scanner. <i>Medical Physics</i> , 2007, 34, 4359-4367.	2.9	86
35	The first patient treatment of computed tomography ventilation functional image-guided radiotherapy for lung cancer. <i>Radiotherapy and Oncology</i> , 2016, 118, 227-231.	0.6	85
36	Three-dimensional prostate position estimation with a single x-ray imager utilizing the spatial probability density. <i>Physics in Medicine and Biology</i> , 2008, 53, 4331-4353.	3.0	84

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37	The first patient treatment of electromagnetic-guided real time adaptive radiotherapy using MLC tracking for lung SABR. <i>Radiotherapy and Oncology</i> , 2016, 121, 19-25.	0.6	84
38	Effect of patient setup errors on simultaneously integrated boost head and neck IMRT treatment plans. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005, 63, 422-433.	0.8	83
39	A Method to Estimate Mean Position, Motion Magnitude, Motion Correlation, and Trajectory of a Tumor From Cone-Beam CT Projections for Image-Guided Radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 72, 1587-1596.	0.8	83
40	Three-dimensional MRI-linac intra-fraction guidance using multiple orthogonal cine-MRI planes. <i>Physics in Medicine and Biology</i> , 2013, 58, 4943-4950.	3.0	83
41	A dosimetric comparison of real-time adaptive and non-adaptive radiotherapy: A multi-institutional study encompassing robotic, gimbaled, multileaf collimator and couch tracking. <i>Radiotherapy and Oncology</i> , 2016, 119, 159-165.	0.6	83
42	Validating and improving CT ventilation imaging by correlating with ventilation 4D-PET/CT using ⁶⁸ Ga-labeled nanoparticles. <i>Medical Physics</i> , 2013, 41, 011910.	2.9	82
43	Pulmonary Ventilation Imaging Based on 4-Dimensional Computed Tomography: Comparison With Pulmonary Function Tests and ASPECT Ventilation Images. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 90, 414-422.	0.8	82
44	Incorporating multi-leaf collimator leaf sequencing into iterative IMRT optimization. <i>Medical Physics</i> , 2002, 29, 952-959.	2.9	76
45	The clinical implementation of respiratory-gated intensity-modulated radiotherapy. <i>Medical Dosimetry</i> , 2006, 31, 152-162.	0.8	76
46	Development and preliminary evaluation of a prototype audiovisual biofeedback device incorporating a patient-specific guiding waveform. <i>Physics in Medicine and Biology</i> , 2008, 53, N197-N208.	3.0	76
47	Dm rather than Dw should be used in Monte Carlo treatment planning. <i>Medical Physics</i> , 2002, 29, 922-924.	2.9	74
48	The first clinical treatment with kilovoltage intrafraction monitoring (KIM): A real-time image guidance method. <i>Medical Physics</i> , 2015, 42, 354-358.	2.9	71
49	Real-time DMLC IMRT delivery for mobile and deforming targets. <i>Medical Physics</i> , 2005, 32, 3037-3048.	2.9	70
50	Investigation of four-dimensional computed tomography-based pulmonary ventilation imaging in patients with emphysematous lung regions. <i>Physics in Medicine and Biology</i> , 2011, 56, 2279-2298.	3.0	70
51	Proton beam deflection in MRI fields: Implications for MRI-guided proton therapy. <i>Medical Physics</i> , 2015, 42, 2113-2124.	2.9	69
52	A longitudinal four-dimensional computed tomography and cone beam computed tomography dataset for image-guided radiation therapy research in lung cancer. <i>Medical Physics</i> , 2017, 44, 762-771.	2.9	69
53	Development of a Micro-Computed Tomography-Based Image-Guided Conformal Radiotherapy System for Small Animals. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 78, 297-305.	0.8	67
54	Motion prediction in MRI-guided radiotherapy based on interleaved orthogonal cine-MRI. <i>Physics in Medicine and Biology</i> , 2016, 61, 872-887.	3.0	67

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55	4998-5005.	2.9	65
56	Monte Carlo-based inverse treatment planning. <i>Physics in Medicine and Biology</i> , 1999, 44, 1885-1896.	3.0	64
57	Failure mode and effect analysis-based quality assurance for dynamic MLC tracking systems. <i>Medical Physics</i> , 2010, 37, 6466-6479.	2.9	64
58	Four-dimensional computed tomography pulmonary ventilation images vary with deformable image registration algorithms and metrics. <i>Medical Physics</i> , 2011, 38, 1348-1358.	2.9	64
59	The VAMPIRE challenge: A multi-institutional validation study of CT ventilation imaging. <i>Medical Physics</i> , 2019, 46, 1198-1217.	2.9	64
60	Dynamic Multileaf Collimator Tracking of Respiratory Target Motion Based on a Single Kilovoltage Imager During Arc Radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 77, 600-607.	0.8	63
61	Online prediction of respiratory motion: multidimensional processing with low-dimensional feature learning. <i>Physics in Medicine and Biology</i> , 2010, 55, 3011-3025.	3.0	63
62	Real-time dynamic MLC tracking for inversely optimized arc radiotherapy. <i>Radiotherapy and Oncology</i> , 2010, 94, 218-223.	0.6	62
63	Integrated MRI-guided radiotherapy – opportunities and challenges. <i>Nature Reviews Clinical Oncology</i> , 2022, 19, 458-470.	27.6	62
64	Multileaf Collimator Tracking Improves Dose Delivery for Prostate Cancer Radiation Therapy: Results of the First Clinical Trial. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 92, 1141-1147.	0.8	61
65	IGRT and motion management during lung SBRT delivery. <i>Physica Medica</i> , 2017, 44, 113-122.	0.7	61
66	Electromagnetic-Guided Dynamic Multileaf Collimator Tracking Enables Motion Management for Intensity-Modulated Arc Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 79, 312-320.	0.8	60
67	Six Degrees-of-Freedom Prostate and Lung Tumor Motion Measurements Using Kilovoltage Intrafraction Monitoring. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 91, 368-375.	0.8	60
68	Implementation of a New Method for Dynamic Multileaf Collimator Tracking of Prostate Motion in Arc Radiotherapy Using a Single kV Imager. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 76, 914-923.	0.8	59
69	Computational Challenges for Image-Guided Radiation Therapy: Framework and Current Research. <i>Seminars in Radiation Oncology</i> , 2007, 17, 245-257.	2.3	58
70	Real-time profiling of respiratory motion: baseline drift, frequency variation and fundamental pattern change. <i>Physics in Medicine and Biology</i> , 2009, 54, 4777-4792.	3.0	58
71	Electron contamination modeling and skin dose in 6 MV longitudinal field MRIgRT: Impact of the MRI and MRI fringe field. <i>Medical Physics</i> , 2012, 39, 874-890.	2.9	58
72	The first clinical implementation of real-time image-guided adaptive radiotherapy using a standard linear accelerator. <i>Radiotherapy and Oncology</i> , 2018, 127, 6-11.	0.6	58

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73	Reproducibility of Four-dimensional Computed Tomography-based Lung Ventilation Imaging. <i>Academic Radiology</i> , 2012, 19, 1554-1565.	2.4	56
74	Toward the development of intrafraction tumor deformation tracking using a dynamic multi-leaf collimator. <i>Medical Physics</i> , 2014, 41, 061703.	2.9	56
75	The effect of statistical uncertainty on inverse treatment planning based on Monte Carlo dose calculation. <i>Physics in Medicine and Biology</i> , 2000, 45, 3601-3613.	3.0	53
76	4D CT lung ventilation images are affected by the 4D CT sorting method. <i>Medical Physics</i> , 2013, 40, 101907.	2.9	53
77	Superposition dose calculation incorporating Monte Carlo generated electron track kernels. <i>Medical Physics</i> , 1996, 23, 479-485.	2.9	52
78	Displacement-based binning of time-dependent computed tomography image data sets. <i>Medical Physics</i> , 2005, 33, 235-246.	2.9	52
79	An analysis of 6-MV versus 18-MV photon energy plans for intensity-modulated radiation therapy (IMRT) of lung cancer. <i>Radiotherapy and Oncology</i> , 2007, 82, 55-62.	0.6	52
80	Real-time tumor tracking using sequential kV imaging combined with respiratory monitoring: a general framework applicable to commonly used IGRT systems. <i>Physics in Medicine and Biology</i> , 2010, 55, 3299-3316.	3.0	52
81	Evaluation of 4-dimensional Computed Tomography to 4-dimensional Cone-Beam Computed Tomography Deformable Image Registration for Lung Cancer Adaptive Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 86, 372-379.	0.8	52
82	Dynamic MLC tracking of moving targets with a single kV imager for 3D conformal and IMRT treatments. <i>Acta Oncologica</i> , 2010, 49, 1092-1100.	1.9	51
83	The integration of MRI in radiation therapy: collaboration of radiographers and radiation therapists. <i>Journal of Medical Radiation Sciences</i> , 2017, 64, 61-68.	1.6	51
84	SPARE: Sparse-view reconstruction challenge for 4D cone-beam CT from a 1-min scan. <i>Medical Physics</i> , 2019, 46, 3799-3811.	2.9	50
85	Radiotherapy dose calculations in the presence of hip prostheses. <i>Medical Dosimetry</i> , 2003, 28, 107-112.	0.8	49
86	Monte Carlo source model for photon beam radiotherapy: photon source characteristics. <i>Medical Physics</i> , 2004, 31, 3106-3121.	2.9	49
87	Real-time prostate trajectory estimation with a single imager in arc radiotherapy: a simulation study. <i>Physics in Medicine and Biology</i> , 2009, 54, 4019-4035.	3.0	49
88	Both four-dimensional computed tomography and four-dimensional cone beam computed tomography under-predict lung target motion during radiotherapy. <i>Radiotherapy and Oncology</i> , 2019, 135, 65-73.	0.6	49
89	AAPM Task Group 264: The safe clinical implementation of MLC tracking in radiotherapy. <i>Medical Physics</i> , 2021, 48, e44-e64.	2.9	49
90	DMLC motion tracking of moving targets for intensity modulated arc therapy treatment – a feasibility study. <i>Acta Oncologica</i> , 2009, 48, 245-250.	1.9	48

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91	Image-Based Dynamic Multileaf Collimator Tracking of Moving Targets During Intensity-Modulated Arc Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 83, e265-e271.	0.8	48
92	Real-Time 3D Image Guidance Using a Standard LINAC: Measured Motion, Accuracy, and Precision of the First Prospective Clinical Trial of Kilovoltage Intrafraction Monitoring—Guided Gating for Prostate Cancer Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 94, 1015-1021.	0.8	48
93	Review of Real-Time 3-Dimensional Image Guided Radiation Therapy on Standard-Equipped Cancer Radiation Therapy Systems: Are We at the Tipping Point for the Era of Real-Time Radiation Therapy?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 922-931.	0.8	48
94	Super-Monte Carlo: A 3-D electron beam dose calculation algorithm. <i>Medical Physics</i> , 1996, 23, 2023-2034.	2.9	47
95	Real-Time Target Position Estimation Using Stereoscopic Kilovoltage/Megavoltage Imaging and External Respiratory Monitoring for Dynamic Multileaf Collimator Tracking. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 79, 269-278.	0.8	46
96	Markerless EPID image guided dynamic multi-leaf collimator tracking for lung tumors. <i>Physics in Medicine and Biology</i> , 2013, 58, 4195-4204.	3.0	46
97	Estimating lung ventilation directly from 4D CT Hounsfield unit values. <i>Medical Physics</i> , 2015, 43, 33-43.	2.9	46
98	Technical Note: Experimental results from a prototype high-field inline MRI-LINAC. <i>Medical Physics</i> , 2016, 43, 5188-5194.	2.9	45
99	Four-dimensional inverse treatment planning with inclusion of implanted fiducials in IMRT segmented fields. <i>Medical Physics</i> , 2009, 36, 2215-2221.	2.9	44
100	Feasibility study on 3D image reconstruction from 2D orthogonal cine-MRI for MRI-guided radiotherapy. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2018, 62, 389-400.	1.9	44
101	Audiovisual biofeedback improves diaphragm motion reproducibility in MRI. <i>Medical Physics</i> , 2012, 39, 6921-6928.	2.9	43
102	Electromagnetic Detection and Real-Time DMLC Adaptation to Target Rotation During Radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 82, e545-e553.	0.8	43
103	DMLC tracking and gating can improve dose coverage for prostate VMAT. <i>Medical Physics</i> , 2014, 41, 091705.	2.9	43
104	A Review of Cardiac Radioablation (CR) for Arrhythmias: Procedures, Technology, and Future Opportunities. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 109, 783-800.	0.8	43
105	A monoscopic method for real-time tumour tracking using combined occasional x-ray imaging and continuous respiratory monitoring. <i>Physics in Medicine and Biology</i> , 2008, 53, 2837-2855.	3.0	42
106	Real-time estimation of prostate tumor rotation and translation with a kV imaging system based on an iterative closest point algorithm. <i>Physics in Medicine and Biology</i> , 2013, 58, 8517-8533.	3.0	42
107	Commissioning of a novel microCT/RT system for small animal conformal radiotherapy. <i>Physics in Medicine and Biology</i> , 2009, 54, 3727-3740.	3.0	41
108	Investigating the Feasibility of Rapid MRI for Image-Guided Motion Management in Lung Cancer Radiotherapy. <i>BioMed Research International</i> , 2014, 2014, 1-6.	2.0	41

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109	Electron contamination modeling and reduction in a 1 T open bore inline MRI-linac system. Medical Physics, 2014, 41, 051708.	2.9	41
110	Locating and targeting moving tumors with radiation beams. Medical Physics, 2008, 35, 5684-5694.	2.9	40
111	Stereotactic prostate adaptive radiotherapy utilising kilovoltage intrafraction monitoring: the TROC 15.01 SPARK trial. BMC Cancer, 2017, 17, 180.	2.6	40
112	Integration of Real-Time Internal Electromagnetic Position Monitoring Coupled With Dynamic Multileaf Collimator Tracking: An Intensity-Modulated Radiation Therapy Feasibility Study. International Journal of Radiation Oncology Biology Physics, 2009, 74, 868-875.	0.8	39
113	Radiotherapy beyond cancer: Target localization in real-time MRI and treatment planning for cardiac radiosurgery. Medical Physics, 2014, 41, 120702.	2.9	39
114	The first clinical implementation of a real-time six degree of freedom target tracking system during radiation therapy based on Kilovoltage Intrafraction Monitoring (KIM). Radiotherapy and Oncology, 2017, 123, 37-42.	0.6	39
115	A Bayesian approach for three-dimensional markerless tumor tracking using kV imaging during lung radiotherapy. Physics in Medicine and Biology, 2017, 62, 3065-3080.	3.0	39
116	See, Think, and Act: Real-Time Adaptive Radiotherapy. Seminars in Radiation Oncology, 2019, 29, 228-235.	2.3	38
117	Improving IMRT dose accuracy via deliverable Monte Carlo optimization for the treatment of head and neck cancer patients. Medical Physics, 2006, 33, 4033-4043.	2.9	37
118	Geometric uncertainty of 2D projection imaging in monitoring 3D tumor motion. Physics in Medicine and Biology, 2007, 52, 3439-3454.	3.0	37
119	Four-dimensional IMRT treatment planning using a DMLC motion-tracking algorithm. Physics in Medicine and Biology, 2009, 54, 3821-3835.	3.0	37
120	Kilovoltage beam Monte Carlo dose calculations in submillimeter voxels for small animal radiotherapy. Medical Physics, 2009, 36, 4991-4999.	2.9	36
121	Measuring interfraction and intrafraction lung function changes during radiation therapy using four-dimensional cone beam CT ventilation imaging. Medical Physics, 2015, 42, 1255-1267.	2.9	36
122	CT ventilation functional image-based IMRT treatment plans are comparable to SPECT ventilation functional image-based plans. Radiotherapy and Oncology, 2016, 118, 521-527.	0.6	36
123	Real-Time Image Guided Ablative Prostate Cancer Radiation Therapy: Results From the TROC 15.01 SPARK Trial. International Journal of Radiation Oncology Biology Physics, 2020, 107, 530-538.	0.8	35
124	Image quality in thoracic 4D cone-beam CT: A sensitivity analysis of respiratory signal, binning method, reconstruction algorithm, and projection angular spacing. Medical Physics, 2014, 41, 041912.	2.9	34
125	Monte Carlo-based dosimetry of head-and-neck patients treated with SIB-IMRT. International Journal of Radiation Oncology Biology Physics, 2006, 64, 968-977.	0.8	33
126	Accuracy in the localization of thoracic and abdominal tumors using respiratory displacement, velocity, and phase. Medical Physics, 2009, 36, 386-393.	2.9	33

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127	Tracking latency in image-based dynamic MLC tracking with direct image access. <i>Acta Oncologica</i> , 2011, 50, 952-959.	1.9	33
128	A method for robust segmentation of arbitrarily shaped radiopaque structures in cone-beam CT projections. <i>Medical Physics</i> , 2011, 38, 2151-2156.	2.9	33
129	Online 4D ultrasound guidance for real-time motion compensation by MLC tracking. <i>Medical Physics</i> , 2016, 43, 5695-5704.	2.9	33
130	On the accuracy of a moving average algorithm for target tracking during radiation therapy treatment delivery. <i>Medical Physics</i> , 2008, 35, 2356-2365.	2.9	32
131	Dose enhancement in radiotherapy of small lung tumors using inline magnetic fields: A Monte Carlo based planning study. <i>Medical Physics</i> , 2015, 43, 368-377.	2.9	32
132	Prostate motion during radiotherapy of prostate cancer patients with and without application of a hydrogel spacer: a comparative study. <i>Radiation Oncology</i> , 2015, 10, 215.	2.7	32
133	MLC tracking for lung SABR reduces planning target volumes and dose to organs at risk. <i>Radiotherapy and Oncology</i> , 2017, 124, 18-24.	0.6	32
134	FLASH radiotherapy: Newsflash or flash in the pan?. <i>Medical Physics</i> , 2019, 46, 4287-4290.	2.9	32
135	Photon-beam subsource sensitivity to the initial electron-beam parameters. <i>Medical Physics</i> , 2005, 32, 1164-1175.	2.9	31
136	Optimizing 4D cone beam computed tomography acquisition by varying the gantry velocity and projection time interval. <i>Physics in Medicine and Biology</i> , 2013, 58, 1705-1723.	3.0	30
137	Real-time soft tissue motion estimation for lung tumors during radiotherapy delivery. <i>Medical Physics</i> , 2013, 40, 091713.	2.9	30
138	Breathing guidance in radiation oncology and radiology: A systematic review of patient and healthy volunteer studies. <i>Medical Physics</i> , 2015, 42, 5490-5509.	2.9	30
139	Accounting for primary electron scatter in x-ray beam convolution calculations. <i>Medical Physics</i> , 1995, 22, 1413-1418.	2.9	29
140	A Deliverable Four-Dimensional Intensity-Modulated Radiation Therapy-Planning Method for Dynamic Multileaf Collimator Tumor Tracking Delivery. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 71, 1526-1536.	0.8	29
141	A bone composition model for Monte Carlo x-ray transport simulations. <i>Medical Physics</i> , 2009, 36, 1008-1018.	2.9	28
142	Geometric accuracy of dynamic MLC tracking with an implantable wired electromagnetic transponder. <i>Acta Oncologica</i> , 2011, 50, 944-951.	1.9	28
143	An MRI-compatible patient rotation system " design, construction, and first organ deformation results. <i>Medical Physics</i> , 2017, 44, 581-588.	2.9	28
144	A ROI-based global motion model established on 4DCT and 2D cine-MRI data for MRI-guidance in radiation therapy. <i>Physics in Medicine and Biology</i> , 2019, 64, 045002.	3.0	28

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145	37, 5627-5633.	2.9	27
146	Quantification of Artifact Reduction With Real-Time Cine Four-Dimensional Computed Tomography Acquisition Methods. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 76, 1242-1250.	0.8	27
147	Linking computer-aided design (CAD) to Geant4-based Monte Carlo simulations for precise implementation of complex treatment head geometries. <i>Physics in Medicine and Biology</i> , 2010, 55, N211-N220.	3.0	27
148	Markerless tumor tracking using short kilovoltage imaging arcs for lung image-guided radiotherapy. <i>Physics in Medicine and Biology</i> , 2015, 60, 9437-9454.	3.0	27
149	A study of the effect of in-plane and perpendicular magnetic fields on beam characteristics of electron guns in medical linear accelerators. <i>Medical Physics</i> , 2011, 38, 4174-4185.	2.9	26
150	Respiratory triggered 4D cone-beam computed tomography: A novel method to reduce imaging dose. <i>Medical Physics</i> , 2013, 40, 041901.	2.9	26
151	Quality assurance for the clinical implementation of kilovoltage intrafraction monitoring for prostate cancer VMAT. <i>Medical Physics</i> , 2014, 41, 111712.	2.9	26
152	Audiovisual Biofeedback Improves Cine-Magnetic Resonance Imaging Measured Lung Tumor Motion Consistency. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 94, 628-636.	0.8	26
153	Respiratory gating for radiation therapy is not ready for prime time. <i>Medical Physics</i> , 2007, 34, 867-870.	2.9	25
154	Evaluating the accuracy of 4D CT ventilation imaging: First comparison with Technegas SPECT ventilation. <i>Medical Physics</i> , 2017, 44, 4045-4055.	2.9	25
155	Investigating the Temporal Effects of Respiratory-Gated and Intensity-Modulated Radiotherapy Treatment Delivery on In Vitro Survival: An Experimental and Theoretical Study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 71, 1547-1552.	0.8	24
156	Time-resolved dose distributions to moving targets during volumetric modulated arc therapy with and without dynamic MLC tracking. <i>Medical Physics</i> , 2013, 40, 111723.	2.9	24
157	Time-resolved volumetric MRI in MRI-guided radiotherapy: an <i>in silico</i> comparative analysis. <i>Physics in Medicine and Biology</i> , 2019, 64, 185013.	3.0	24
158	Dosimetric impact of intrafraction rotations in stereotactic prostate radiotherapy: A subset analysis of the TROG 15.01 SPARK trial. <i>Radiotherapy and Oncology</i> , 2019, 136, 143-147.	0.6	24
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