

Paul J Keall

List of Publications by Year in descending order

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425
papers

16,151
citations

20817

60
h-index

22166

113
g-index

427
all docs

427
docs citations

427
times ranked

6681
citing authors

#	ARTICLE	IF	CITATIONS
1	Physics, 2006, 33, 3874-3900.	3.0	1,829
2	Stereotactic body radiation therapy: The report of AAPM Task Group 101. Medical Physics, 2010, 37, 4078-4101.	3.0	1,616
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.	3.0	552
4	4-dimensional computed tomography imaging and treatment planning. Seminars in Radiation Oncology, 2004, 14, 81-90.	2.2	443
5	The Australian Magnetic Resonance Imaging-Linearac Program. Seminars in Radiation Oncology, 2014, 24, 203-206.	2.2	299
6	Four-dimensional radiotherapy planning for DMLC-based respiratory motion tracking. Medical Physics, 2005, 32, 942-951.	3.0	274
7	Patient training in respiratory-gated radiotherapy. Medical Dosimetry, 2003, 28, 7-11.	0.9	224
8	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	219
9	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.	3.0	217
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	215
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	158
13	Management of three-dimensional intrafraction motion through real-time DMLC tracking. Medical Physics, 2008, 35, 2050-2061.	3.0	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	148
15	The first clinical implementation of electromagnetic transponder-guided MLC tracking. Medical Physics, 2014, 41, 020702.	3.0	137
16	Real-time intrafraction motion monitoring in external beam radiotherapy. Physics in Medicine and Biology, 2019, 64, 15TR01.	3.0	130
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	127
18	Monte Carlo computation of dosimetric amorphous silicon electronic portal images. Medical Physics, 2004, 31, 2135-2146.	3.0	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	109
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	A method for photon beam Monte Carlo multileaf collimator particle transport. <i>Physics in Medicine and Biology</i> , 2002, 47, 3225-3249.	3.0	103
23	Comparisons between MCNP, EGS4 and experiment for clinical electron beams. <i>Physics in Medicine and Biology</i> , 1999, 44, 705-717.	3.0	101
24	Medical physics challenges in clinical MR-guided radiotherapy. <i>Radiation Oncology</i> , 2020, 15, 93.	2.7	101
25	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
26	A method for determining multileaf collimator transmission and scatter for dynamic intensity modulated radiotherapy. <i>Medical Physics</i> , 2000, 27, 2231-2241.	3.0	99
27	Future of medical physics: Real-time MRI-guided proton therapy. <i>Medical Physics</i> , 2017, 44, e77-e90.	3.0	99
28	The effect of dose calculation accuracy on inverse treatment planning. <i>Physics in Medicine and Biology</i> , 2002, 47, 391-407.	3.0	95
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	94
30	A Monte Carlo study of radiation transport through multileaf collimators. <i>Medical Physics</i> , 2001, 28, 2497-2506.	3.0	93
31	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.	3.0	92
32	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.	3.0	90
33	A method of dose reconstruction for moving targets compatible with dynamic treatments. <i>Medical Physics</i> , 2012, 39, 6237-6246.	3.0	86
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.	3.0	85
35	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
36	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

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37	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	82
38	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	82
39	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	81
40	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	81
41	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	81
42	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	80
43	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.	3.0	79
44	Incorporating multi-leaf collimator leaf sequencing into iterative IMRT optimization. <i>Medical Physics</i> , 2002, 29, 952-959.	3.0	76
45	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	75
46	Dm rather than Dw should be used in Monte Carlo treatment planning. <i>Medical Physics</i> , 2002, 29, 922-924.	3.0	74
47	The clinical implementation of respiratory-gated intensity-modulated radiotherapy. <i>Medical Dosimetry</i> , 2006, 31, 152-162.	0.9	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.	3.0	71
49	Real-time DMLC IMRT delivery for mobile and deforming targets. <i>Medical Physics</i> , 2005, 32, 3037-3048.	3.0	69
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	68
51	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
52	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	66
53	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.	3.0	65
54	Failure mode and effect analysis-based quality assurance for dynamic MLC tracking systems. <i>Medical Physics</i> , 2010, 37, 6466-6479.	3.0	64

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55	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
56	4998-5005.	3.0	63
57	Four-dimensional computed tomography pulmonary ventilation images vary with deformable image registration algorithms and metrics. <i>Medical Physics</i> , 2011, 38, 1348-1358.	3.0	63
58	Proton beam deflection in MRI fields: Implications for MRI-guided proton therapy. <i>Medical Physics</i> , 2015, 42, 2113-2124.	3.0	63
59	Monte Carlo-based inverse treatment planning. <i>Physics in Medicine and Biology</i> , 1999, 44, 1885-1896.	3.0	62
60	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	62
61	Real-time dynamic MLC tracking for inversely optimized arc radiotherapy. <i>Radiotherapy and Oncology</i> , 2010, 94, 218-223.	0.6	62
62	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
63	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
64	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
65	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
66	The VAMPIRE challenge: A multi-institutional validation study of CT ventilation imaging. <i>Medical Physics</i> , 2019, 46, 1198-1217.	3.0	59
67	Computational Challenges for Image-Guided Radiation Therapy: Framework and Current Research. <i>Seminars in Radiation Oncology</i> , 2007, 17, 245-257.	2.2	58
68	IGRT and motion management during lung SBRT delivery. <i>Physica Medica</i> , 2017, 44, 113-122.	0.7	58
69	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	57
70	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.	3.0	56
71	Toward the development of intrafraction tumor deformation tracking using a dynamic multi-leaf collimator. <i>Medical Physics</i> , 2014, 41, 061703.	3.0	54
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	54

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73	Reproducibility of Four-dimensional Computed Tomography-based Lung Ventilation Imaging. <i>Academic Radiology</i> , 2012, 19, 1554-1565.	2.5	53
74	Superposition dose calculation incorporating Monte Carlo generated electron track kernels. <i>Medical Physics</i> , 1996, 23, 479-485.	3.0	52
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	52
76	Displacement-based binning of time-dependent computed tomography image data sets. <i>Medical Physics</i> , 2005, 33, 235-246.	3.0	52
77	4D CT lung ventilation images are affected by the 4D CT sorting method. <i>Medical Physics</i> , 2013, 40, 101907.	3.0	52
78	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	50
79	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	50
80	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.	1.8	50
81	Monte Carlo source model for photon beam radiotherapy: photon source characteristics. <i>Medical Physics</i> , 2004, 31, 3106-3121.	3.0	49
82	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
83	AAPM Task Group 264: The safe clinical implementation of MLC tracking in radiotherapy. <i>Medical Physics</i> , 2021, 48, e44-e64.	3.0	49
84	Radiotherapy dose calculations in the presence of hip prostheses. <i>Medical Dosimetry</i> , 2003, 28, 107-112.	0.9	48
85	DMLC motion tracking of moving targets for intensity modulated arc therapy treatment – a feasibility study. <i>Acta Oncologica</i> , 2009, 48, 245-250.	1.8	48
86	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
87	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	48
88	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
89	Super-Monte Carlo: A 3-D electron beam dose calculation algorithm. <i>Medical Physics</i> , 1996, 23, 2023-2034.	3.0	47
90	The integration of MRI in radiation therapy: collaboration of radiographers and radiation therapists. <i>Journal of Medical Radiation Sciences</i> , 2017, 64, 61-68.	1.5	47

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91	SPARE: Sparse-view reconstruction challenge for 4D cone-beam CT from a 1-min scan. <i>Medical Physics</i> , 2019, 46, 3799-3811.	3.0	47
92	Integrated MRI-guided radiotherapy – opportunities and challenges. <i>Nature Reviews Clinical Oncology</i> , 2022, 19, 458-470.	27.6	47
93	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	46
94	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	45
95	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	45
96	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	44
97	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.	1.8	44
98	Four-dimensional inverse treatment planning with inclusion of implanted fiducials in IMRT segmented fields. <i>Medical Physics</i> , 2009, 36, 2215-2221.	3.0	43
99	DMLC tracking and gating can improve dose coverage for prostate VMAT. <i>Medical Physics</i> , 2014, 41, 091705.	3.0	43
100	Technical Note: Experimental results from a prototype high-field inline MRI linac. <i>Medical Physics</i> , 2016, 43, 5188-5194.	3.0	43
101	<i>Physics</i> , 2006, 33, 3874-3900.	3.0	43
102	Audiovisual biofeedback improves diaphragm motion reproducibility in MRI. <i>Medical Physics</i> , 2012, 39, 6921-6928.	3.0	42
103	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	42
104	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
105	Estimating lung ventilation directly from 4D CT Hounsfield unit values. <i>Medical Physics</i> , 2015, 43, 33-43.	3.0	42
106	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	41
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.	1.9	41

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109	Locating and targeting moving tumors with radiation beams. <i>Medical Physics</i> , 2008, 35, 5684-5694.	3.0	40
110	Electron contamination modeling and reduction in a 1 T open bore inline MRI-linac system. <i>Medical Physics</i> , 2014, 41, 051708.	3.0	40
111	Integration of Real-Time Internal Electromagnetic Position Monitoring Coupled With Dynamic Multileaf Collimator Tracking: An Intensity-Modulated Radiation Therapy Feasibility Study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 74, 868-875.	0.8	39
112	Stereotactic prostate adaptive radiotherapy utilising kilovoltage intrafraction monitoring: the TROC 15.01 SPARK trial. <i>BMC Cancer</i> , 2017, 17, 180.	2.6	39
113	The first clinical implementation of a real-time six degree of freedom target tracking system during radiation therapy based on Kilovoltage Intrafraction Monitoring (KIM). <i>Radiotherapy and Oncology</i> , 2017, 123, 37-42.	0.6	39
114	A Bayesian approach for three-dimensional markerless tumor tracking using kV imaging during lung radiotherapy. <i>Physics in Medicine and Biology</i> , 2017, 62, 3065-3080.	3.0	38
115	Improving IMRT dose accuracy via deliverable Monte Carlo optimization for the treatment of head and neck cancer patients. <i>Medical Physics</i> , 2006, 33, 4033-4043.	3.0	37
116	Geometric uncertainty of 2D projection imaging in monitoring 3D tumor motion. <i>Physics in Medicine and Biology</i> , 2007, 52, 3439-3454.	3.0	37
117	Four-dimensional IMRT treatment planning using a DMLC motion-tracking algorithm. <i>Physics in Medicine and Biology</i> , 2009, 54, 3821-3835.	3.0	37
118	Radiotherapy beyond cancer: Target localization in real-time MRI and treatment planning for cardiac radiosurgery. <i>Medical Physics</i> , 2014, 41, 120702.	3.0	37
119	See, Think, and Act: Real-Time Adaptive Radiotherapy. <i>Seminars in Radiation Oncology</i> , 2019, 29, 228-235.	2.2	37
120	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	37
121	Kilovoltage beam Monte Carlo dose calculations in submillimeter voxels for small animal radiotherapy. <i>Medical Physics</i> , 2009, 36, 4991-4999.	3.0	35
122	Image quality in thoracic 4D cone-beam CT: A sensitivity analysis of respiratory signal, binning method, reconstruction algorithm, and projection angular spacing. <i>Medical Physics</i> , 2014, 41, 041912.	3.0	34
123	Measuring interfraction and intrafraction lung function changes during radiation therapy using four-dimensional cone beam CT ventilation imaging. <i>Medical Physics</i> , 2015, 42, 1255-1267.	3.0	34
124	CT ventilation functional image-based IMRT treatment plans are comparable to SPECT ventilation functional image-based plans. <i>Radiotherapy and Oncology</i> , 2016, 118, 521-527.	0.6	34
125	Monte Carlo-based dosimetry of head-and-neck patients treated with SIB-IMRT. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 64, 968-977.	0.8	33
126	Accuracy in the localization of thoracic and abdominal tumors using respiratory displacement, velocity, and phase. <i>Medical Physics</i> , 2009, 36, 386-393.	3.0	33

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127	A method for robust segmentation of arbitrarily shaped radiopaque structures in cone-beam CT projections. <i>Medical Physics</i> , 2011, 38, 2151-2156.	3.0	33
128	Online 4D ultrasound guidance for real-time motion compensation by MLC tracking. <i>Medical Physics</i> , 2016, 43, 5695-5704.	3.0	33
129	Real-Time Image Guided Ablative Prostate Cancer Radiation Therapy: Results From the TROG 15.01 SPARK Trial. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 107, 530-538.	0.8	33
130	Photon-beam subsource sensitivity to the initial electron-beam parameters. <i>Medical Physics</i> , 2005, 32, 1164-1175.	3.0	31
131	On the accuracy of a moving average algorithm for target tracking during radiation therapy treatment delivery. <i>Medical Physics</i> , 2008, 35, 2356-2365.	3.0	31
132	Tracking latency in image-based dynamic MLC tracking with direct image access. <i>Acta Oncologica</i> , 2011, 50, 952-959.	1.8	31
133	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	31
134	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	31
135	FLASH radiotherapy: Newsflash or flash in the pan?. <i>Medical Physics</i> , 2019, 46, 4287-4290.	3.0	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	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.	3.0	30
138	Accounting for primary electron scatter in x-ray beam convolution calculations. <i>Medical Physics</i> , 1995, 22, 1413-1418.	3.0	29
139	Real-time soft tissue motion estimation for lung tumors during radiotherapy delivery. <i>Medical Physics</i> , 2013, 40, 091713.	3.0	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	28
141	A bone composition model for Monte Carlo x-ray transport simulations. <i>Medical Physics</i> , 2009, 36, 1008-1018.	3.0	28
142	Geometric accuracy of dynamic MLC tracking with an implantable wired electromagnetic transponder. <i>Acta Oncologica</i> , 2011, 50, 944-951.	1.8	28
143	Breathing guidance in radiation oncology and radiology: A systematic review of patient and healthy volunteer studies. <i>Medical Physics</i> , 2015, 42, 5490-5509.	3.0	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.	3.0	27
146	Quantification of Artifact Reduction With Real-Time Cine Four-Dimensional Computed Tomography Acquisition Methods. International Journal of Radiation Oncology Biology Physics, 2010, 76, 1242-1250.	0.8	26
147	Linking computer-aided design (CAD) to Geant4-based Monte Carlo simulations for precise implementation of complex treatment head geometries. Physics in Medicine and Biology, 2010, 55, N211-N220.	3.0	26
148	Quality assurance for the clinical implementation of kilovoltage intrafraction monitoring for prostate cancer VMAT. Medical Physics, 2014, 41, 111712.	3.0	26
149	Audiovisual Biofeedback Improves Cine-Magnetic Resonance Imaging Measured Lung Tumor Motion Consistency. International Journal of Radiation Oncology Biology Physics, 2016, 94, 628-636.	0.8	26
150	An MRI-compatible patient rotation system design, construction, and first organ deformation results. Medical Physics, 2017, 44, 581-588.	3.0	26
151	Respiratory gating for radiation therapy is not ready for prime time. Medical Physics, 2007, 34, 867-870.	3.0	25
152	A study of the effect of inline and perpendicular magnetic fields on beam characteristics of electron guns in medical linear accelerators. Medical Physics, 2011, 38, 4174-4185.	3.0	25
153	Markerless tumor tracking using short kilovoltage imaging arcs for lung image-guided radiotherapy. Physics in Medicine and Biology, 2015, 60, 9437-9454.	3.0	25
154	Respiratory triggered 4D cone-beam computed tomography: A novel method to reduce imaging dose. Medical Physics, 2013, 40, 041901.	3.0	24
155	Time-resolved dose distributions to moving targets during volumetric modulated arc therapy with and without dynamic MLC tracking. Medical Physics, 2013, 40, 111723.	3.0	24
156	Investigating the Temporal Effects of Respiratory-Gated and Intensity-Modulated Radiotherapy Treatment Delivery on In Vitro Survival: An Experimental and Theoretical Study. International Journal of Radiation Oncology Biology Physics, 2008, 71, 1547-1552.	0.8	23
157	Impact of the MLC on the MRI field distortion of a prototype MRI-linac. Medical Physics, 2013, 40, 121705.	3.0	23
158	The Nano-X Linear Accelerator. Technology in Cancer Research and Treatment, 2015, 14, 565-572.	1.9	23
159	Evaluating the accuracy of 4D-CT ventilation imaging: First comparison with Technegas SPECT ventilation. Medical Physics, 2017, 44, 4045-4055.	3.0	23
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