Paul Keall

List of Publications by Year
in descending order

427 papers	16,592 citations	20634 60 h-index	22041 114 g-index
433 all docs	433 docs citations	433 times ranked	8394 citing authors

#	Article	IF	Citations
1	Prospective randomized trial comparing two devices for deep inspiration breath hold management in breast radiotherapy: Results of the BRAVEHeart trial. Advances in Radiation Oncology, 2024, , 101572.	1.2	0
2	Data-driven rapid 4D cone-beam CT reconstruction for new generation linacs. Physics in Medicine and Biology, 2024, 69, 18NT02.	3.0	0
3	Rapid distortion correction enables accurate magnetic resonance imaging-guided real-time adaptive radiotherapy. Physics and Imaging in Radiation Oncology, 2023, 25, 100414.	2.8	1
4	MArkerless image Guidance using Intrafraction Kilovoltage x-ray imaging (MAGIK): study protocol for a phase I interventional study for lung cancer radiotherapy. BMJ Open, 2022, 12, e057135.	2.1	0
5	A novel semiautomated method for background activity and biological tumour volume definition to improve standardisation of 18F-FET PET imaging in glioblastoma. EJNMMI Physics, 2022, 9, 9.	2.8	4
6	The markerless lung target tracking AAPM Grand Challenge (MATCH) results. Medical Physics, 2022, 49, 1161-1180.	2.9	15
7	A systematic review of assessment approaches to predict opioid misuse in people with cancer. Supportive Care in Cancer, 2022, 30, 5645-5658.	2.3	5
8	Reducing 4DCBCT imaging dose and time: exploring the limits of adaptive acquisition and motion compensated reconstruction. Physics in Medicine and Biology, 2022, 67, 065002.	3.0	2
9	Magnetic resonance imaging (MRI) guided proton therapy: A review of the clinical challenges, potential benefits and pathway to implementation. Radiotherapy and Oncology, 2022, 170, 37-47.	0.6	22
10	Experimental characterisation of the magnetic field correction factor, kBâƒ—, for Roos chambers in a parallel MRI-linac. Physics in Medicine and Biology, 2022, 67, 095017.	3.0	2
11	Integrated MRI-guided radiotherapy â€" opportunities and challenges. Nature Reviews Clinical Oncology, 2022, 19, 458-470.	27.6	62
12	Investigating the use of machine learning to generate ventilation images from CT scans. Medical Physics, 2022, 49, 5258-5267.	2.9	6
13	Repeatability of radiotherapy dose-painting prescriptions derived from a multiparametric magnetic resonance imaging model of glioblastoma infiltration. Physics and Imaging in Radiation Oncology, 2022, 23, 8-15.	2.8	4
14	CArdiac and REspiratory adaptive Computed Tomography (CARE-CT): a proof-of-concept digital phantom study. Physical and Engineering Sciences in Medicine, 2022, 45, 1257-1271.	2.5	2
15	MLC tracking for lung SABR is feasible, efficient and delivers high-precision target dose and lower normal tissue dose. Radiotherapy and Oncology, 2021, 155, 131-137.	0.6	20
16	A Review of Cardiac Radioablation (CR) for Arrhythmias: Procedures, Technology, and Future Opportunities. International Journal of Radiation Oncology Biology Physics, 2021, 109, 783-800.	0.8	43
17	Adapting to the motion of multiple independent targets using multileaf collimator tracking for locally advanced prostate cancer: Proof of principle simulation study. Medical Physics, 2021, 48, 114-124.	2.9	3
18	AAPM Task Group 264: The safe clinical implementation of MLC tracking in radiotherapy. Medical Physics, 2021, 48, e44-e64.	2.9	49

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19	Toward realâ€time verification for MLC tracking treatments using timeâ€resolved EPID imaging. Medical Physics, 2021, 48, 953-964.	2.9	3
20	Minimizing 4DCBCT imaging dose and scan time with Respiratory Motion Guided 4DCBCT: a pre-clinical investigation. Biomedical Physics and Engineering Express, 2021, 7, 025009.	1.2	1
21	Cardiac radioablation for atrial fibrillation: Target motion characterization and treatment delivery considerations. Medical Physics, 2021, 48, 931-941.	2.9	20
22	Reducing 4DCBCT scan time and dose through motion compensated acquisition and reconstruction. Physics in Medicine and Biology, 2021, 66, 075002.	3.0	3
23	Adaptive CaRdiac cOne BEAm computed Tomography (ACROBEAT): Developing the next generation of cardiac cone beam CT imaging. Medical Physics, 2021, 48, 2543-2552.	2.9	4
24	Dose-based optimisation for multi-leaf collimator tracking during radiation therapy. Physics in Medicine and Biology, 2021, 66, 065027.	3.0	5
25	Pre-treatment and real-time image guidance for a fixed-beam radiotherapy system. Physics in Medicine and Biology, 2021, 66, 064003.	3.0	1
26	Quantification of the geometric uncertainty when using implanted markers as a surrogate for lung tumor motion. Medical Physics, 2021, 48, 2724-2732.	2.9	5
27	Study protocol of the LARK (TROG 17.03) clinical trial: a phase II trial investigating the dosimetric impact of Liver Ablative Radiotherapy using Kilovoltage intrafraction monitoring. BMC Cancer, 2021, 21, 494.	2.6	5
28	The adaptation and investigation of cone-beam CT reconstruction algorithms for horizontal rotation fixed-gantry scans of rabbits. Physics in Medicine and Biology, 2021, 66, 105012.	3.0	2
29	A real-time IGRT method using a Kalman filter framework to extract 3D positions from 2D projections. Physics in Medicine and Biology, 2021, 66, 214001.	3.0	1
30	First experimental evaluation of multi-target multileaf collimator tracking during volumetric modulated arc therapy for locally advanced prostate cancer. Radiotherapy and Oncology, 2021, 160, 212-220.	0.6	3
31	Proof-of-concept for x-ray based real-time image guidance during cardiac radioablation. Physics in Medicine and Biology, 2021, 66, 175010.	3.0	1
32	The first-in-human implementation of adaptive 4D cone beam CT for lung cancer radiotherapy: 4DCBCT in less time with less dose. Radiotherapy and Oncology, 2021, 161, 29-34.	0.6	5
33	MRI-guided cardiac-induced target motion tracking for atrial fibrillation cardiac radioablation. Radiotherapy and Oncology, 2021, 164, 138-145.	0.6	5
34	Real-time dose-guidance in radiotherapy: Proof of principle. Radiotherapy and Oncology, 2021, 164, 175-182.	0.6	8
35	Measurements of human tolerance to horizontal rotation within an MRI scanner: Towards gantryâ€free radiation therapy. Journal of Medical Imaging and Radiation Oncology, 2021, 65, 112-119.	1.9	6
36	Simulated multileaf collimator tracking for stereotactic liver radiotherapy guided by kilovoltage intrafraction monitoring: Dosimetric gain and target overdose trends. Radiotherapy and Oncology, 2020, 144, 93-100.	0.6	8

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37	The first prospective implementation of markerless lung target tracking in an experimental quality assurance procedure on a standard linear accelerator. Physics in Medicine and Biology, 2020, 65, 025008.	3.0	9
38	First experimental investigation of simultaneously tracking two independently moving targets on an MRIâ€linac using realâ€time MRI and MLC tracking. Medical Physics, 2020, 47, 6440-6449.	2.9	24
39	Towards MR-guided electron therapy: Measurement and simulation of clinical electron beams in magnetic fields. Physica Medica, 2020, 78, 83-92.	0.7	1
40	Toward improved 3D carotid artery imaging with Adaptive CaRdiac cOne BEAm computed Tomography (ACROBEAT). Medical Physics, 2020, 47, 5749-5760.	2.9	4
41	Is multileaf collimator tracking or gating a better intrafraction motion adaptation strategy? An analysis of the TROG 15.01 stereotactic prostate ablative radiotherapy with KIM (SPARK) trial. Radiotherapy and Oncology, 2020, 151, 234-241.	0.6	10
42	Experimental evaluation of the dosimetric impact of intrafraction prostate rotation using film measurement with a 6DoF robotic arm. Medical Physics, 2020, 47, 6068-6076.	2.9	2
43	Medical physics challenges in clinical MR-guided radiotherapy. Radiation Oncology, 2020, 15, 93.	2.7	106
44	Evaluating reconstruction algorithms for respiratory motion guided acquisition. Physics in Medicine and Biology, 2020, 65, 175009.	3.0	13
45	Dosimetric Optimization and Commissioning of a High Field Inline MRI-Linac. Frontiers in Oncology, 2020, 10, 136.	2.9	13
46	Real-Time Image Guided Ablative Prostate Cancer Radiation Therapy: Results From the TROG 15.01 SPARK Trial. International Journal of Radiation Oncology Biology Physics, 2020, 107, 530-538.	0.8	35
47	Reducing 4D CT imaging artifacts at the source: first experimental results from the respiratory adaptive computed tomography (REACT) system. Physics in Medicine and Biology, 2020, 65, 075012.	3.0	4
48	Geometric uncertainty analysis of MLC tracking for lung SABR. Physics in Medicine and Biology, 2020, 65, 235040.	3.0	6
49	Technical Note: Experimental characterization of the dose deposition in parallel MRIâ€linacs at various magnetic field strengths. Medical Physics, 2019, 46, 5152-5158.	2.9	7
50	Realâ€time direct diaphragm tracking using kV imaging on a standard linear accelerator. Medical Physics, 2019, 46, 4481-4489.	2.9	15
51	Time-resolved volumetric MRI in MRI-guided radiotherapy: an in silico comparative analysis. Physics in Medicine and Biology, 2019, 64, 185013.	3.0	24
52	Motion Management in Stereotactic Body Radiation Therapy. , 2019, , 195-215.		1
53	FLASH radiotherapy: Newsflash or flash in the pan?. Medical Physics, 2019, 46, 4287-4290.	2.9	32
54	SPARE: Sparseâ€view reconstruction challenge for 4D coneâ€beam CT from a 1â€min scan. Medical Physics, 2019, 46, 3799-3811.	2.9	50

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55	The accuracy and precision of the KIM motion monitoring system used in the multiâ€institutional TROG 15.01 Stereotactic Prostate Ablative Radiotherapy with KIM (SPARK) trial. Medical Physics, 2019, 46, 4725-4737.	2.9	15
56	In the future, emissionâ€guided radiation therapy will play a critical role in clinical radiation oncology. Medical Physics, 2019, 46, 1519-1522.	2.9	3
57	Real-time intrafraction motion monitoring in external beam radiotherapy. Physics in Medicine and Biology, 2019, 64, 15TR01.	3.0	141
58	Dual cardiac and respiratory gated thoracic imaging via adaptive gantry velocity and projection rate modulation on a linear accelerator: A Proofâ€ofâ€Concept Simulation Study. Medical Physics, 2019, 46, 4116-4126.	2.9	9
59	MRI Linac Systems. , 2019, , 155-168.		6
60	Imaging of regional ventilation: Is CT ventilation imaging the answer? A systematic review of the validation data. Radiotherapy and Oncology, 2019, 137, 175-185.	0.6	22
61	Technical Note: The first live treatment on a 1.0 Tesla inline <scp>MRI</scp>â€linac. Medical Physics, 2019, 46, 3254-3258.	2.9	14
62	Dosimetric impact of intrafraction rotations in stereotactic prostate radiotherapy: A subset analysis of the TROG 15.01 SPARK trial. Radiotherapy and Oncology, 2019, 136, 143-147.	0.6	24
63	See, Think, and Act: Real-Time Adaptive Radiotherapy. Seminars in Radiation Oncology, 2019, 29, 228-235.	2.3	38
64	A six-degree-of-freedom robotic motion system for quality assurance of real-time image-guided radiotherapy. Physics in Medicine and Biology, 2019, 64, 105021.	3.0	10
65	Both four-dimensional computed tomography and four-dimensional cone beam computed tomography under-predict lung target motion during radiotherapy. Radiotherapy and Oncology, 2019, 135, 65-73.	0.6	49
66	A deep learning framework for automatic detection of arbitrarily shaped fiducial markers in intrafraction fluoroscopic images. Medical Physics, 2019, 46, 2286-2297.	2.9	21
67	A retrospective 4Dâ€<scp>MRI</scp> based on 2D diaphragm profiles for lung cancer patients. Journal of Medical Imaging and Radiation Oncology, 2019, 63, 360-369.	1.9	10
68	Technical Note: In silico and experimental evaluation of two leafâ€fitting algorithms for MLC tracking based on exposure error and plan complexity. Medical Physics, 2019, 46, 1814-1820.	2.9	2
69	Towards patient connected imaging with ACROBEAT: Adaptive CaRdiac cOne BEAm computed Tomography. Physics in Medicine and Biology, 2019, 64, 065006.	3.0	3
70	Real-time respiratory triggered four dimensional cone-beam CT halves imaging dose compared to conventional 4D CBCT. Physics in Medicine and Biology, 2019, 64, 07NT01.	3.0	4
71	TROG 18.01 phase III randomised clinical trial of the Novel Integration of New prostate radiation schedules with adJuvant Androgen deprivation: NINJA study protocol. BMJ Open, 2019, 9, e030731.	2.1	20
72	The VAMPIRE challenge: A multiâ€institutional validation study of CT ventilation imaging. Medical Physics, 2019, 46, 1198-1217.	2.9	64

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73	In Reply to Dahele and Verbakel. International Journal of Radiation Oncology Biology Physics, 2019, 103, 283-284.	0.8	1
74	Development and commissioning of a fullâ€size prototype fixedâ€beam radiotherapy system with horizontal patient rotation. Medical Physics, 2019, 46, 1331-1340.	2.9	7
75	A ROI-based global motion model established on 4DCT and 2D cine-MRI data for MRI-guidance in radiation therapy. Physics in Medicine and Biology, 2019, 64, 045002.	3.0	28
76	A Feasibility Study of Single-inhalation, Single-energy Xenon-enhanced CT for High-resolution Imaging of Regional Lung Ventilation in Humans. Academic Radiology, 2019, 26, 38-49.	2.4	3
77	Respiratory Deformation Estimation in X-Ray-Guided IMRT Using a Bilinear Model. Informatik Aktuell, 2019, , 315-320.	0.0	0
78	Decoupling Respiratory and Angular Variation in Rotational X-ray Scans Using a Prior Bilinear Model. Lecture Notes in Computer Science, 2019, , 583-594.	1.0	1
79	Feasibility study on 3D image reconstruction from 2D orthogonal cineâ€<scp>MRI</scp> for <scp>MRI</scp>â€guided radiotherapy. Journal of Medical Imaging and Radiation Oncology, 2018, 62, 389-400.	1.9	44
80	A CBCT study of the gravity-induced movement in rotating rabbits. Physics in Medicine and Biology, 2018, 63, 105012.	3.0	7
81	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?. International Journal of Radiation Oncology Biology Physics, 2018, 102, 922-931.	0.8	48
82	Potential improvements of lung and prostate MLC tracking investigated by treatment simulations. Medical Physics, 2018, 45, 2218-2229.	2.9	10
83	Passive magnetic shielding in MRI-Linac systems. Physics in Medicine and Biology, 2018, 63, 075008.	3.0	14
84	The accuracy and precision of Kilovoltage Intrafraction Monitoring (KIM) six degree-of-freedom prostate motion measurements during patient treatments. Radiotherapy and Oncology, 2018, 126, 236-243.	0.6	17
85	Electromagnetic-Guided MLC Tracking Radiation Therapy for Prostate Cancer Patients: Prospective Clinical Trial Results. International Journal of Radiation Oncology Biology Physics, 2018, 101, 387-395.	0.8	22
86	A comparison of gantryâ€mounted xâ€rayâ€based realâ€time target tracking methods. Medical Physics, 2018, 45, 1222-1232.	2.9	10
87	Audiovisual biofeedback improves the correlation between internal/external surrogate motion and lung tumor motion. Medical Physics, 2018, 45, 1009-1017.	2.9	22
88	Impact of audiovisual biofeedback on interfraction respiratory motion reproducibility in liver cancer stereotactic body radiotherapy. Journal of Medical Imaging and Radiation Oncology, 2018, 62, 133-139.	1.9	0
89	The first clinical implementation of real-time image-guided adaptive radiotherapy using a standard linear accelerator. Radiotherapy and Oncology, 2018, 127, 6-11.	0.6	58
90	CT ventilation imaging derived from breath hold CT exhibits good regional accuracy with Galligas PET. Radiotherapy and Oncology, 2018, 127, 267-273.	0.6	18

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91	Moderately hypofractionated prostate external-beam radiotherapy: an emerging standard. British Journal of Radiology, 2018, 91, 20170807.	2.3	13
92	Investigation of the XCAT phantom as a validation tool in cardiac MRI tracking algorithms. Physica Medica, 2018, 45, 44-51.	0.7	16
93	4-Dimensional Cone Beam Computed Tomographyâ€"Measured Target Motion Underrepresents Actual Motion. International Journal of Radiation Oncology Biology Physics, 2018, 102, 932-940.	0.8	8
94	Technical Requirements for Lung Cancer Radiotherapy. , 2018, , 318-329.e2.		2
95	An interdimensional correlation framework for real-time estimation of six degree of freedom target motion using a single x-ray imager during radiotherapy. Physics in Medicine and Biology, 2018, 63, 015010.	3.0	4
96	Patient reported outcomes of slow, single arc rotation: Do we need rotating gantries?. Journal of Medical Imaging and Radiation Oncology, 2018, 62, 553-561.	1.9	13
97	A phantom study to create synthetic CT from orthogonal twodimensional cine MRI and evaluate the effect of irregular breathing. , 2018, 2018, 4162-4165.		2
98	Investigating multi-leaf collimator tracking in stereotactic arrhythmic radioablation (STAR) treatments for atrial fibrillation. Physics in Medicine and Biology, 2018, 63, 195008.	3.0	16
99	Cone-beam CT reconstruction with gravity-induced motion. Physics in Medicine and Biology, 2018, 63, 205007.	3.0	5
100	An augmented correlation framework for the estimation of tumour translational and rotational motion during external beam radiotherapy treatments using intermittent monoscopic x-ray imaging and an external respiratory signal. Physics in Medicine and Biology, 2018, 63, 205003.	3.0	5
101	Imageâ€based retrospective 4D <scp>MRI</scp> in external beam radiotherapy: A comparative study with a digital phantom. Medical Physics, 2018, 45, 3161-3172.	2.9	21
102	Changes in Regional Ventilation During Treatment and Dosimetric Advantages of CT Ventilation Image Guided Radiation Therapy for Locally Advanced Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2018, 102, 1366-1373.	0.8	19
103	An in silico performance characterization of respiratory motion guided 4DCT for high-quality low-dose lung cancer imaging. Physics in Medicine and Biology, 2018, 63, 155012.	3.0	11
104	Influence of respiratory motion management technique on radiation pneumonitis risk with robotic stereotactic body radiation therapy. Journal of Applied Clinical Medical Physics, 2018, 19, 48-57.	1.8	8
105	Realâ€time high spatial resolution dose verification in stereotactic motion adaptive arc radiotherapy. Journal of Applied Clinical Medical Physics, 2018, 19, 173-184.	1.8	5
106	Quantifying the reproducibility of lung ventilation images between 4â€Dimensional Cone Beam <scp>CT</scp> and 4â€Dimensional <scp>CT</scp>. Medical Physics, 2017, 44, 1771-1781.	2.9	9
107	Quantification of intrafraction prostate motion and its dosimetric effect on VMAT. Australasian Physical and Engineering Sciences in Medicine, 2017, 40, 317-324.	1.4	6
108	Evaluating the accuracy of 4Dâ€<scp>CT</scp> ventilation imaging: First comparison with Technegas <scp>SPECT</scp> ventilation. Medical Physics, 2017, 44, 4045-4055.	2.9	25

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109	Reducing 4DCBCT imaging time and dose: the first implementation of variable gantry speed 4DCBCT on a linear accelerator. Physics in Medicine and Biology, 2017, 62, 4300-4317.	3.0	12
110	Development and testing of a database of NIH research funding of AAPM members: A report from the AAPM Working Group for the Development of a Research Database (WGDRD). Medical Physics, 2017, 44, 1590-1601.	2.9	14
111	Stereotactic prostate adaptive radiotherapy utilising kilovoltage intrafraction monitoring: the TROG 15.01 SPARK trial. BMC Cancer, 2017, 17, 180.	2.6	40
112	Innovations in Radiotherapy Technology. Clinical Oncology, 2017, 29, 120-128.	1.4	22
113	The integration of <scp>MRI</scp> in radiation therapy: collaboration of radiographers and radiation therapists. Journal of Medical Radiation Sciences, 2017, 64, 61-68.	1.6	51
114	IGRT and motion management during lung SBRT delivery. Physica Medica, 2017, 44, 113-122.	0.7	61
115	Commissioning and quality assurance for VMAT delivery systems: An efficient timeâ€resolved system using realâ€time EPID imaging. Medical Physics, 2017, 44, 3909-3922.	2.9	10
116	Future of medical physics: Realâ€time MRIâ€guided proton therapy. Medical Physics, 2017, 44, e77-e90.	2.9	104
117	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
118	Audiovisual biofeedback guided breath-hold improves lung tumor position reproducibility and volume consistency. Advances in Radiation Oncology, 2017, 2, 354-362.	1.2	15
119	Technical Note: The design and function of a horizontal patient rotation system for the purposes of fixed-beam cancer radiotherapy. Medical Physics, 2017, 44, 2490-2502.	2.9	12
120	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
121	A longitudinal fourâ€dimensional computed tomography and cone beam computed tomography dataset for imageâ€guided radiation therapy research in lung cancer. Medical Physics, 2017, 44, 762-771.	2.9	69
122	An MRIâ€compatible patient rotation system â€" design, construction, and first organ deformation results. Medical Physics, 2017, 44, 581-588.	2.9	28
123	Experimental verification of dose enhancement effects in a lung phantom from inline magnetic fields. Radiotherapy and Oncology, 2017, 125, 433-438.	0.6	14
124	Realâ€time intrafraction prostate motion during linac based stereotactic radiotherapy with rectal displacement. Journal of Applied Clinical Medical Physics, 2017, 18, 130-136.	1.8	20
125	Technical note: TROG 15.01 SPARK trial multiâ€institutional imaging dose measurement. Journal of Applied Clinical Medical Physics, 2017, 18, 358-363.	1.8	10
126	Performance assessment of a programmable five degrees-of-freedom motion platform for quality assurance of motion management techniques in radiotherapy. Australasian Physical and Engineering Sciences in Medicine, 2017, 40, 643-649.	1.4	8

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127	Quantifying the accuracy and precision of a novel real-time 6 degree-of-freedom kilovoltage intrafraction monitoring (KIM) target tracking system. Physics in Medicine and Biology, 2017, 62, 5744-5759.	3.0	11
128	MLC tracking for lung SABR reduces planning target volumes and dose to organs at risk. Radiotherapy and Oncology, 2017, 124, 18-24.	0.6	32
129	Innovative detectors for quality assurance dosimetry in SBRT of stationary and movable targets. Journal of Physics: Conference Series, 2017, 777, 012014.	0.4	0
130	New pathways for end-to-end validation of CT ventilation imaging (CTVI) using deformable image registration. , 2016, , .		9
131	The impact of breathing guidance and prospective gating during thoracic 4DCT imaging: an XCAT study utilizing lung cancer patient motion. Physics in Medicine and Biology, 2016, 61, 6485-6501.	3.0	17
132	A novel electron accelerator for MRI-Linac radiotherapy. Medical Physics, 2016, 43, 1285-1294.	2.9	15
133	Reconstruction of implanted marker trajectories from cone-beam CT projection images using interdimensional correlation modeling. Medical Physics, 2016, 43, 4643-4654.	2.9	11
134	An EPIDâ€based system for gantryâ€resolved MLC quality assurance for VMAT. Journal of Applied Clinical Medical Physics, 2016, 17, 348-365.	1.8	13
135	Online 4D ultrasound guidance for realâ€time motion compensation by MLC tracking. Medical Physics, 2016, 43, 5695-5704.	2.9	33
136	Technical Note: Experimental results from a prototype highâ€field inline MRIâ€linac. Medical Physics, 2016, 43, 5188-5194.	2.9	45
137	Quantifying the accuracy of the tumor motion and area as a function of acceleration factor for the simulation of the dynamic keyhole magnetic resonance imaging method. Medical Physics, 2016, 43, 2639-2648.	2.9	6
138	Performance of a clinical gridded electron gun in magnetic fields: Implications for MRIâ€linac therapy. Medical Physics, 2016, 43, 5903-5914.	2.9	10
139	Towards real-time MRI-guided 3D localization of deforming targets for non-invasive cardiac radiosurgery. Physics in Medicine and Biology, 2016, 61, 7848-7863.	3.0	23
140	Functional imaging equivalence and proof of concept for image-guided adaptive radiotherapy with fixed gantry and rotating couch. Advances in Radiation Oncology, 2016, 1, 365-372.	1.2	10
141	Real-Time 3D Image Guidance Using a Standard LINAC: Measured Motion, Accuracy, and Precision of the First Prospective Clinical Trial of Kilovoltage Intrafraction Monitoringâ€“Guided Gating for Prostate Cancer Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2016, 94, 1015-1021.	0.8	48
142	A dosimetric comparison of real-time adaptive and non-adaptive radiotherapy: A multi-institutional study encompassing robotic, gimbaled, multileaf collimator and couch tracking. Radiotherapy and Oncology, 2016, 119, 159-165.	0.6	83
143	Motion prediction in MRI-guided radiotherapy based on interleaved orthogonal cine-MRI. Physics in Medicine and Biology, 2016, 61, 872-887.	3.0	67
144	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

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145	The impact of audiovisual biofeedback on 4D functional and anatomic imaging: Results of a lung cancer pilot study. Radiotherapy and Oncology, 2016, 120, 267-272.	0.6	10
146	The first patient treatment of electromagnetic-guided real time adaptive radiotherapy using MLC tracking for lung SABR. Radiotherapy and Oncology, 2016, 121, 19-25.	0.6	84
147	The first implementation of respiratory triggered 4DCBCT on a linear accelerator. Physics in Medicine and Biology, 2016, 61, 3488-3499.	3.0	17
148	Audiovisual Biofeedback Improves Cineâ€"Magnetic Resonance Imaging Measured Lung Tumor Motion Consistency. International Journal of Radiation Oncology Biology Physics, 2016, 94, 628-636.	0.8	26
149	The first patient treatment of computed tomography ventilation functional image-guided radiotherapy for lung cancer. Radiotherapy and Oncology, 2016, 118, 227-231.	0.6	85
150	Measurement of preoperative lobar lung function with computed tomography ventilation imaging: progress towards rapid stratification of lung cancer lobectomy patients with abnormal lung function. European Journal of Cardio-thoracic Surgery, 2016, 49, 1075-1082.	1.4	21
151	TU-H-202-00: CT Ventilation Imaging: The New Clinical Reality of Functional Avoidance and Response Assessment in Lung Cancer Radiation Therapy. Medical Physics, 2016, 43, 3770-3770.	2.9	0
152	The first clinical treatment with kilovoltage intrafraction monitoring (KIM): A realâ€time image guidance method. Medical Physics, 2015, 42, 354-358.	2.9	71
153	Quantifying the impact of respiratoryâ€gated 4D CT acquisition on thoracic image quality: A digital phantom study. Medical Physics, 2015, 42, 324-334.	2.9	19
154	First clinical implementation of audiovisual biofeedback in liver cancer stereotactic body radiation therapy. Journal of Medical Imaging and Radiation Oncology, 2015, 59, 654-656.	1.9	4
155	Measuring interfraction and intrafraction lung function changes during radiation therapy using fourâ€dimensional cone beam CT ventilation imaging. Medical Physics, 2015, 42, 1255-1267.	2.9	36
156	Estimating lung ventilation directly from 4D CT Hounsfield unit values. Medical Physics, 2015, 43, 33-43.	2.9	46
157	Technical Note: A novel leaf sequencing optimization algorithm which considers previous underdose and overdose events for MLC tracking radiotherapy. Medical Physics, 2015, 43, 132-136.	2.9	5
158	Dose enhancement in radiotherapy of small lung tumors using inline magnetic fields: A Monte Carlo based planning study. Medical Physics, 2015, 43, 368-377.	2.9	32
159	Prostate motion during radiotherapy of prostate cancer patients with and without application of a hydrogel spacer: a comparative study. Radiation Oncology, 2015, 10, 215.	2.7	32
160	Quantification of lung tumor rotation with automated landmark extraction using orthogonal cine MRI images. Physics in Medicine and Biology, 2015, 60, 7165-7178.	3.0	21
161	Markerless tumor tracking using short kilovoltage imaging arcs for lung image-guided radiotherapy. Physics in Medicine and Biology, 2015, 60, 9437-9454.	3.0	27
162	MagicPlate-512: A 2D silicon detector array for quality assurance of stereotactic motion adaptive radiotherapy. Medical Physics, 2015, 42, 2992-3004.	2.9	22

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163	Six Degrees-of-Freedom Prostate and Lung Tumor Motion Measurements Using Kilovoltage Intrafraction Monitoring. International Journal of Radiation Oncology Biology Physics, 2015, 91, 368-375.	0.8	60
164	Improving thoracic four-dimensional cone-beam CT reconstruction with anatomical-adaptive image regularization (AAIR). Physics in Medicine and Biology, 2015, 60, 841-868.	3.0	9
165	Determining appropriate imaging parameters for kilovoltage intrafraction monitoring: an experimental phantom study. Physics in Medicine and Biology, 2015, 60, 4835-4847.	3.0	12
166	Multileaf Collimator Tracking Improves Dose Delivery for Prostate Cancer Radiation Therapy: Results of the First Clinical Trial. International Journal of Radiation Oncology Biology Physics, 2015, 92, 1141-1147.	0.8	61
167	Proton beam deflection in MRI fields: Implications for MRIâ€guided proton therapy. Medical Physics, 2015, 42, 2113-2124.	2.9	69
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