

Philip M Evans

List of Publications by Year in descending order

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206
papers

7,447
citations

50276

46
h-index

66911

78
g-index

207
all docs

207
docs citations

207
times ranked

5153
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>SpekCalc</i> : a program to calculate photon spectra from tungsten anode x-ray tubes. <i>Physics in Medicine and Biology</i> , 2009, 54, N433-N438.	3.0	556
2	Partial-breast radiotherapy after breast conservation surgery for patients with early breast cancer (UK IMPORT LOW trial): 5-year results from a multicentre, randomised, controlled, phase 3, non-inferiority trial. <i>Lancet, The</i> , 2017, 390, 1048-1060.	13.7	448
3	Randomised trial of standard 2D radiotherapy (RT) versus intensity modulated radiotherapy (IMRT) in patients prescribed breast radiotherapy. <i>Radiotherapy and Oncology</i> , 2007, 82, 254-264.	0.6	427
4	Calculation of x-ray spectra emerging from an x-ray tube. Part I. Electron penetration characteristics in x-ray targets. <i>Medical Physics</i> , 2007, 34, 2164-2174.	3.0	190
5	The UK HeartSpare Study: Randomised evaluation of voluntary deep-inspiratory breath-hold in women undergoing breast radiotherapy. <i>Radiotherapy and Oncology</i> , 2013, 108, 242-247.	0.6	163
6	Prone versus supine positioning for whole and partial-breast radiotherapy: A comparison of non-target tissue dosimetry. <i>Radiotherapy and Oncology</i> , 2010, 96, 178-184.	0.6	151
7	Proton radiography and tomography with application to proton therapy. <i>British Journal of Radiology</i> , 2015, 88, 20150134.	2.2	130
8	A cone-beam megavoltage CT scanner for treatment verification in conformal radiotherapy. <i>Radiotherapy and Oncology</i> , 1998, 48, 319-328.	0.6	127
9	An efficient Monte Carlo-based algorithm for scatter correction in keV cone-beam CT. <i>Physics in Medicine and Biology</i> , 2009, 54, 3847-3864.	3.0	124
10	Dose-Volume Constraints to Reduce Rectal Side Effects From Prostate Radiotherapy: Evidence From MRC RT01 Trial ISRCTN 47772397. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 76, 747-754.	0.8	123
11	The delivery of intensity modulated radiotherapy to the breast using multiple static fields. <i>Radiotherapy and Oncology</i> , 2000, 57, 79-89.	0.6	110
12	Anatomical imaging for radiotherapy. <i>Physics in Medicine and Biology</i> , 2008, 53, R151-R191.	3.0	107
13	The application of transit dosimetry to precision radiotherapy. <i>Medical Physics</i> , 1996, 23, 713-721.	3.0	106
14	Inverse planning with constraints to generate smoothed intensity-modulated beams. <i>Physics in Medicine and Biology</i> , 1998, 43, 2785-2794.	3.0	97
15	Assessing the effect of electron density in photon dose calculations. <i>Medical Physics</i> , 2006, 33, 540-552.	3.0	96
16	Scattered radiation in portal images: A Monte Carlo simulation and a simple physical model. <i>Medical Physics</i> , 1996, 23, 63-73.	3.0	94
17	A randomised trial of Supine versus Prone breast radiotherapy (SuPr study): Comparing set-up errors and respiratory motion. <i>Radiotherapy and Oncology</i> , 2011, 100, 221-226.	0.6	84
18	The role of texture analysis in imaging as an outcome predictor and potential tool in radiotherapy treatment planning. <i>British Journal of Radiology</i> , 2014, 87, 20140369.	2.2	83

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19	A linear array, scintillation crystal-photodiode detector for megavoltage imaging. <i>Medical Physics</i> , 1991, 18, 681-691.	3.0	80
20	Independent verification using portal imaging of intensity-modulated beam delivery by the dynamic MLC technique. <i>Medical Physics</i> , 1998, 25, 1872-1879.	3.0	79
21	Defining the margins in the radical radiotherapy of non-small cell lung cancer (NSCLC) with active breathing control (ABC) and the effect on physical lung parameters. <i>Radiotherapy and Oncology</i> , 2008, 87, 65-73.	0.6	78
22	The UK HeartSpare Study (Stage IB): Randomised comparison of a voluntary breath-hold technique and prone radiotherapy after breast conserving surgery. <i>Radiotherapy and Oncology</i> , 2015, 114, 66-72.	0.6	72
23	Design of compensators for breast radiotherapy using electronic portal imaging. <i>Radiotherapy and Oncology</i> , 1995, 37, 43-54.	0.6	71
24	Extraction of primary signal from EPIDs using only forward convolution. <i>Medical Physics</i> , 1997, 24, 1477-1484.	3.0	70
25	A Comparison of the Use of Bony Anatomy and Internal Markers for Offline Verification and an Evaluation of the Potential Benefit of Online and Offline Verification Protocols for Prostate Radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 71, 41-50.	0.8	69
26	Feasibility of the use of the Active Breathing Coordinator (ABC) in patients receiving radical radiotherapy for non-small cell lung cancer (NSCLC). <i>Radiotherapy and Oncology</i> , 2009, 93, 424-429.	0.6	69
27	Relationship between irradiated breast volume and late normal tissue complications: A systematic review. <i>Radiotherapy and Oncology</i> , 2012, 104, 1-10.	0.6	69
28	Feasibility of using ultrasound for real-time tracking during radiotherapy. <i>Medical Physics</i> , 2005, 32, 1500-1512.	3.0	67
29	Speckle tracking in a phantom and feature-based tracking in liver in the presence of respiratory motion using 4D ultrasound. <i>Physics in Medicine and Biology</i> , 2010, 55, 3363-3380.	3.0	66
30	Parameters for the Lyman Kutcher Burman (LKB) model of Normal Tissue Complication Probability (NTCP) for specific rectal complications observed in clinical practise. <i>Radiotherapy and Oncology</i> , 2012, 102, 347-351.	0.6	66
31	Evaluation of compensation in breast radiotherapy: a planning study using multiple static fields. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000, 46, 671-679.	0.8	65
32	The dosimetric consequences of inter-fractional patient movement on conventional and intensity-modulated breast radiotherapy treatments. <i>Radiotherapy and Oncology</i> , 2000, 54, 57-64.	0.6	64
33	Second cancer incidence risk estimates using BEIR VII models for standard and complex external beam radiotherapy for early breast cancer. <i>Medical Physics</i> , 2012, 39, 5814-5824.	3.0	64
34	Dosimetric investigation of lung tumor motion compensation with a robotic respiratory tracking system: An experimental study. <i>Medical Physics</i> , 2008, 35, 1232-1240.	3.0	60
35	Quality assurance of the dose delivered by small radiation segments. <i>Physics in Medicine and Biology</i> , 1998, 43, 2665-2675.	3.0	59
36	Recent developments in non-coplanar radiotherapy. <i>British Journal of Radiology</i> , 2019, 92, 20180908.	2.2	57

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37	A megavoltage CT scanner for radiotherapy verification. <i>Physics in Medicine and Biology</i> , 1992, 37, 1985-1999.	3.0	56
38	Dose-position and dose-volume histogram analysis of standard wedged and intensity modulated treatments in breast radiotherapy. <i>British Journal of Radiology</i> , 2002, 75, 967-973.	2.2	55
39	A proof that uniform dose gives the greatest TCP for fixed integral dose in the planning target volume. <i>Physics in Medicine and Biology</i> , 1994, 39, 2091-2098.	3.0	53
40	Monte Carlo modelling of a-Si EPID response: The effect of spectral variations with field size and position. <i>Medical Physics</i> , 2006, 33, 4527-4540.	3.0	52
41	Direct measurement and analytical modeling of scatter in portal imaging. <i>Medical Physics</i> , 2000, 27, 462-471.	3.0	51
42	Tumor Bed Delineation for Partial Breast and Breast Boost Radiotherapy Planned in the Prone Position: What Does MRI Add to X-ray CT Localization of Titanium Clips Placed in the Excision Cavity Wall?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 74, 1276-1282.	0.8	50
43	Trajectory optimization for dynamic couch rotation during volumetric modulated arc radiotherapy. <i>Physics in Medicine and Biology</i> , 2013, 58, 8163-8177.	3.0	50
44	Obtaining breathing patterns from any sequential thoracic x-ray image set. <i>Physics in Medicine and Biology</i> , 2009, 54, 4879-4888.	3.0	49
45	A randomised trial of patient repositioning during radiotherapy using a megavoltage imaging system. <i>Radiotherapy and Oncology</i> , 1994, 31, 161-168.	0.6	48
46	Dosimetric evaluation of compensation in radiotherapy of the breast: MLC intensity modulation and physical compensators. <i>Radiotherapy and Oncology</i> , 1997, 42, 249-256.	0.6	48
47	Rapid portal imaging with a high-efficiency, large field-of-view detector. <i>Medical Physics</i> , 1998, 25, 2333-2346.	3.0	47
48	Optimization of the scintillation detector in a combined 3D megavoltage CT scanner and portal imager. <i>Medical Physics</i> , 1998, 25, 1880-1890.	3.0	46
49	<i>In vivo</i> liver tracking with a high volume rate 4D ultrasound scanner and a 2D matrix array probe. <i>Physics in Medicine and Biology</i> , 2012, 57, 1359-1374.	3.0	46
50	Normal tissue complication probability (NTCP) parameters for breast fibrosis: Pooled results from two randomised trials. <i>Radiotherapy and Oncology</i> , 2013, 108, 293-298.	0.6	46
51	Image comparison techniques for use with megavoltage imaging systems. <i>British Journal of Radiology</i> , 1992, 65, 701-709.	2.2	45
52	The Use of the Active Breathing Coordinator Throughout Radical Non-Small-Cell Lung Cancer (NSCLC) Radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 81, 369-375.	0.8	45
53	The UK HeartSpare Study (Stage II): Multicentre Evaluation of a Voluntary Breath-hold Technique in Patients Receiving Breast Radiotherapy. <i>Clinical Oncology</i> , 2017, 29, e51-e56.	1.4	45
54	Reproducibility of patient positioning during routine radiotherapy, as assessed by an integrated megavoltage imaging system. <i>Radiotherapy and Oncology</i> , 1995, 35, 151-160.	0.6	44

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55	Combining Dosimetry for Targeted Radionuclide and External Beam Therapies Using the Biologically Effective Dose. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2003, 18, 89-97.	1.0	44
56	Characterization of Target Volume Changes During Breast Radiotherapy Using Implanted Fiducial Markers and Portal Imaging. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 73, 958-966.	0.8	43
57	Application of the linear-quadratic model to combined modality radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 59, 228-241.	0.8	42
58	Practical implementation of compensators in breast radiotherapy. <i>Radiotherapy and Oncology</i> , 1998, 49, 255-265.	0.6	41
59	Removal and effects of scatter-glare in cone-beam CT with an amorphous-silicon flat-panel detector. <i>Physics in Medicine and Biology</i> , 2011, 56, 1837-1851.	3.0	41
60	Planning lung radiotherapy using 4D CT data and a motion model. <i>Physics in Medicine and Biology</i> , 2008, 53, 5815-5830.	3.0	40
61	Tumour bed delineation for partial breast/breast boost radiotherapy: What is the optimal number of implanted markers?. <i>Radiotherapy and Oncology</i> , 2013, 106, 231-235.	0.6	40
62	Evaluation of two methods of predicting MLC leaf positions using EPID measurements. <i>Medical Physics</i> , 2006, 33, 3174-3182.	3.0	39
63	Cone Beam Computed Tomography Number Errors and Consequences for Radiotherapy Planning: An Investigation of Correction Methods. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 84, e109-e114.	0.8	39
64	Dosimetry of very high energy electrons (VHEE) for radiotherapy applications: using radiochromic film measurements and Monte Carlo simulations. <i>Physics in Medicine and Biology</i> , 2014, 59, 5811-5829.	3.0	39
65	Leaf position verification during dynamic beam delivery: A comparison of three applications using electronic portal imaging. <i>Medical Physics</i> , 2000, 27, 1601-1609.	3.0	38
66	The optimum intensities for multiple static multileaf collimator field compensation. <i>Medical Physics</i> , 1997, 24, 1147-1156.	3.0	37
67	Optimization of accelerator target and detector for portal imaging using Monte Carlo simulation and experiment. <i>Physics in Medicine and Biology</i> , 2002, 47, 3331-3349.	3.0	36
68	An investigation into methods of IMRT planning applied to breast radiotherapy. <i>British Journal of Radiology</i> , 2008, 81, 311-322.	2.2	36
69	Proton-counting radiography for proton therapy: a proof of principle using CMOS APS technology. <i>Physics in Medicine and Biology</i> , 2014, 59, 2569-2581.	3.0	36
70	Non-coplanar trajectories to improve organ at risk sparing in volumetric modulated arc therapy for primary brain tumors. <i>Radiotherapy and Oncology</i> , 2016, 121, 124-131.	0.6	36
71	PRaVDA: The first solid-state system for proton computed tomography. <i>Physica Medica</i> , 2018, 55, 149-154.	0.7	36
72	Performance of ultrasound based measurement of 3D displacement using a curvilinear probe for organ motion tracking. <i>Physics in Medicine and Biology</i> , 2007, 52, 5683-5703.	3.0	35

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73	Amorphous silicon EPID calibration for dosimetric applications: comparison of a method based on Monte Carlo prediction of response with existing techniques. <i>Physics in Medicine and Biology</i> , 2007, 52, 3351-3368.	3.0	35
74	IMRT verification with a camera-based electronic portal imaging system. <i>Physics in Medicine and Biology</i> , 2000, 45, N183-N196.	3.0	33
75	A lowZlinac and flat panel imager: comparison with the conventional imaging approach. <i>Physics in Medicine and Biology</i> , 2008, 53, 6305-6319.	3.0	33
76	The design of megavoltage projection imaging systems: Some theoretical aspects. <i>Medical Physics</i> , 1991, 18, 855-866.	3.0	32
77	Evaluation of implanted gold seeds for breast radiotherapy planning and on treatment verification: A feasibility study on behalf of the IMPORT trialists. <i>Radiotherapy and Oncology</i> , 2011, 100, 276-281.	0.6	32
78	Feasibility of fully automated detection of fiducial markers implanted into the prostate using electronic portal imaging: A comparison of methods. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 66, 1263-1270.	0.8	30
79	Linear accelerator output variations and their consequences for megavoltage imaging. <i>Medical Physics</i> , 1998, 25, 1443-1452.	3.0	29
80	A theoretical framework for prescribing radiotherapy dose distributions using patient-specific biological information. <i>Medical Physics</i> , 2008, 35, 4599-4611.	3.0	29
81	A margin model to account for respiration-induced tumour motion and its variability. <i>Physics in Medicine and Biology</i> , 2008, 53, 4317-4330.	3.0	29
82	Proton computed tomography reconstruction using a backprojection-then-filtering approach. <i>Physics in Medicine and Biology</i> , 2014, 59, 7905-7918.	3.0	29
83	Measurement of sub-barrier transfer reactions for Ni58+Sn using a recoil mass separator. <i>Physical Review Letters</i> , 1987, 59, 978-981.	7.8	28
84	Dose resolution in gel dosimetry: effect of uncertainty in the calibration function. <i>Physics in Medicine and Biology</i> , 2004, 49, N139-N146.	3.0	28
85	Clinical applications of textural analysis in non-small cell lung cancer. <i>British Journal of Radiology</i> , 2018, 91, 20170267.	2.2	28
86	Voluntary Breath-hold Technique for Reducing Heart Dose in Left Breast Radiotherapy. <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	27
87	An electronic portal imaging device for transit dosimetry. <i>Physics in Medicine and Biology</i> , 1997, 42, 2273-2283.	3.0	26
88	Characterization and Testing of LAS: A Prototype 'Large Area Sensor' With Performance Characteristics Suitable for Medical Imaging Applications. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 2938-2946.	2.0	26
89	DynAMITe: a wafer scale sensor for biomedical applications. <i>Journal of Instrumentation</i> , 2011, 6, C12064-C12064.	1.2	26
90	Optical scattering in camera-based electronic portal imaging. <i>Physics in Medicine and Biology</i> , 1999, 44, 2381-2396.	3.0	25

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91	Verification of patient position and delivery of IMRT by electronic portal imaging. <i>Radiotherapy and Oncology</i> , 2004, 73, 339-347.	0.6	23
92	The susceptibility of IMRT dose distributions to intrafraction organ motion: An investigation into smoothing filters derived from four dimensional computed tomography data. <i>Medical Physics</i> , 2006, 33, 2809-2818.	3.0	22
93	How does knowledge of three-dimensional excision margins following breast conservation surgery impact upon clinical target volume definition for partial-breast radiotherapy?. <i>Radiotherapy and Oncology</i> , 2010, 94, 292-299.	0.6	22
94	An experimental evaluation of the Agility MLC for motion-compensated VMAT delivery. <i>Physics in Medicine and Biology</i> , 2013, 58, 4643-4657.	3.0	22
95	The use of electronic portal imaging to verify patient position during intensity-modulated radiotherapy delivered by the dynamic MLC technique. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002, 54, 1225-1234.	0.8	21
96	Target-tracking deliveries on an Elekta linac: a feasibility study. <i>Physics in Medicine and Biology</i> , 2009, 54, 3563-3578.	3.0	21
97	Dose prescription complexity versus tumor control probability in biologically conformal radiotherapy. <i>Medical Physics</i> , 2009, 36, 4379-4388.	3.0	21
98	Proton Beam Therapy – the Challenges of Delivering High-quality Evidence of Clinical Benefit. <i>Clinical Oncology</i> , 2018, 30, 280-284.	1.4	21
99	A method of improving the spatial resolution of treatments that involve a multileaf collimator. <i>Physics in Medicine and Biology</i> , 2000, 45, 609-622.	3.0	20
100	How does imaging frequency and soft tissue motion affect the PTV margin size in partial breast and boost radiotherapy?. <i>Radiotherapy and Oncology</i> , 2012, 103, 166-171.	0.6	20
101	Multileaf Collimation Cardiac Shielding in Breast Radiotherapy: Cardiac Doses are Reduced, But at What Cost?. <i>Clinical Oncology</i> , 2013, 25, 690-696.	1.4	20
102	An experimental demonstration of a new type of proton computed tomography using a novel silicon tracking detector. <i>Medical Physics</i> , 2016, 43, 6129-6136.	3.0	20
103	Polymer gel measurement of dose homogeneity in the breast: comparing MLC intensity modulation with standard wedged delivery. <i>Physics in Medicine and Biology</i> , 2003, 48, 1065-1074.	3.0	19
104	CT dosimetry: getting the best from the adult Cristy phantom. <i>Radiation Protection Dosimetry</i> , 2005, 114, 321-325.	0.8	19
105	Rayleigh scatter in kilovoltage x-ray imaging: is the independent atom approximation good enough?. <i>Physics in Medicine and Biology</i> , 2009, 54, 6931-6942.	3.0	18
106	4D ultrasound speckle tracking of intra-fraction prostate motion: a phantom-based comparison with x-ray fiducial tracking using CyberKnife. <i>Physics in Medicine and Biology</i> , 2014, 59, 1701-1720.	3.0	18
107	A simulation of the effects of set-up error and changes in breast volume on conventional and intensity-modulated treatments in breast radiotherapy. <i>Physics in Medicine and Biology</i> , 2001, 46, 1451-1471.	3.0	17
108	Optical photon transport in powdered phosphor scintillators. Part II. Calculation of single scattering transport parameters. <i>Medical Physics</i> , 2013, 40, 041905.	3.0	17

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109	Performance of a novel wafer scale CMOS active pixel sensor for bio-medical imaging. Physics in Medicine and Biology, 2014, 59, 3533-3554.	3.0	17
110	CT reconstruction from portal images acquired during volumetric-modulated arc therapy. Physics in Medicine and Biology, 2010, 55, 5635-5651.	3.0	16
111	Study of neutron transfer reactions at sub-coulomb energies using a recoil separator. Nuclear Physics A, 1989, 499, 173-199.	1.5	15
112	Effects of averaging over motion and the resulting systematic errors in radiation therapy. Physics in Medicine and Biology, 2006, 51, N1-N7.	3.0	15
113	Optical photon transport in powdered phosphor scintillators. Part 1. Multiple scattering and validity of the Boltzmann transport equation. Medical Physics, 2013, 40, 041904.	3.0	15
114	Radiological thickness measurement using a liquid ionization chamber electronic portal imaging device. Physics in Medicine and Biology, 1999, 44, N89-N97.	3.0	14
115	The dosimetric consequences of inter-fractional patient movement on three classes of intensity-modulated delivery techniques in breast radiotherapy. Radiotherapy and Oncology, 2001, 59, 281-291.	0.6	14
116	Analysis of the effects of the delivery technique on an IMRT plan: comparison for multiple static field, dynamic and NOMOS MIMiC collimation. Physics in Medicine and Biology, 2001, 46, 3073-3087.	3.0	14
117	Electron beam quality control using an amorphous silicon EPID. Medical Physics, 2009, 36, 1859-1866.	3.0	14
118	Gating characteristics of an Elekta radiotherapy treatment unit measured with three types of detector. Physics in Medicine and Biology, 2010, 55, N201-N210.	3.0	14
119	The implementation of patient position correction using a megavoltage imaging device on a linear accelerator. British Journal of Radiology, 1993, 66, 833-838.	2.2	13
120	Initial patient imaging with an optimised radiotherapy beam for portal imaging. Radiotherapy and Oncology, 2005, 76, 63-71.	0.6	13
121	The use of PET images for radiotherapy treatment planning: An error analysis using radiobiological endpoints. Medical Physics, 2010, 37, 516-531.	3.0	13
122	Expected proton signal sizes in the PRaVDA Range Telescope for proton Computed Tomography. Journal of Instrumentation, 2015, 10, P05013-P05013.	1.2	13
123	The practical implementation of a scatter model for portal imaging at 10 MV. Physics in Medicine and Biology, 1998, 43, 2685-2693.	3.0	12
124	The Multidimensional Integrated Intelligent Imaging project (MI-3). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, 196-198.	1.6	12
125	Statistical limitations in proton imaging. Physics in Medicine and Biology, 2020, 65, 085011.	3.0	12
126	Spatial aspects of combined modality radiotherapy. Radiotherapy and Oncology, 2005, 77, 301-309.	0.6	11

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127	Innovative Techniques in Radiation Therapy: Editorial, Overview, and Crystal Ball Gaze to the Future. Seminars in Radiation Oncology, 2006, 16, 193-198.	2.2	11
128	An investigation into the use of CMOS active pixel technology in image-guided radiotherapy. Physics in Medicine and Biology, 2008, 53, 3159-3174.	3.0	11
129	Characterisation of regional variations in a stitched CMOS active pixel sensor. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 620, 540-548.	1.6	11
130	CMOS Active Pixel Sensors as energy-range detectors for proton Computed Tomography. Journal of Instrumentation, 2015, 10, C06001-C06001.	1.2	11
131	An end-to-end assessment on the accuracy of adaptive radiotherapy in an MR-linac. Physics in Medicine and Biology, 2021, 66, 055021.	3.0	11
132	Development of video frame store and distortion correction facilities for an external-beam radiotherapy treatment simulator. British Journal of Radiology, 1991, 64, 747-750.	2.2	10
133	Dissipative reaction mechanisms in medium-mass nuclear collisions. Nuclear Physics A, 1991, 526, 365-394.	1.5	10
134	The effect of object speed and direction on the performance of 3D speckle tracking using a 3D swept-volume ultrasound probe. Physics in Medicine and Biology, 2011, 56, 7127-7143.	3.0	10
135	The Validation Index: A New Metric for Validation of Segmentation Algorithms Using Two or More Expert Outlines With Application to Radiotherapy Planning. IEEE Transactions on Medical Imaging, 2013, 32, 1481-1489.	8.9	10
136	An intercomparison of IMRT delivery techniques: a case study for breast treatment. Physics in Medicine and Biology, 2001, 46, N175-N185.	3.0	9
137	Kilovoltage energy imaging with a radiotherapy linac with a continuously variable energy range. Medical Physics, 2012, 39, 1218-1226.	3.0	9
138	The Effect of Image Guidance on Dose Distributions in Breast Boost Radiotherapy. Clinical Oncology, 2014, 26, 671-676.	1.4	9
139	Monte Carlo simulations of CsI(Tl) scintillation crystals for use in a three-dimensional megavoltage CT scanner. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 348, 563-566.	1.6	8
140	Fluoroscopy as a surrogate for lung tumour motion. British Journal of Radiology, 2012, 85, 168-175.	2.2	8
141	Adaptive Breast Radiation Therapy Using Modeling of Tissue Mechanics: A Breast Tissue Segmentation Study. International Journal of Radiation Oncology Biology Physics, 2012, 84, e419-e425.	0.8	8
142	Towards real-time VMAT verification using a prototype, high-speed CMOS active pixel sensor. Physics in Medicine and Biology, 2013, 58, 3359-3375.	3.0	8
143	The stability of imaging biomarkers in radiomics: a framework for evaluation. Physics in Medicine and Biology, 2019, 64, 165012.	3.0	8
144	Monte Carlo and Lambertian light guide models of the light output from scintillation crystals at megavoltage energies. Medical Physics, 2006, 33, 1797-1809.	3.0	7

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145	Comparative study of a low-Zcone-beam computed tomography system. Physics in Medicine and Biology, 2011, 56, 4453-4464.	3.0	7
146	Dosimetric accuracy of dynamic couch rotation during volumetric modulated arc therapy (DCR-VMAT) for primary brain tumours. Physics in Medicine and Biology, 2019, 64, 08NT01.	3.0	7
147	3D Liver tracking using a matrix array: Implications for ultrasonic guidance of IMRT. , 2010, , .		6
148	Dosimetric consequences of inter-fraction breathing-pattern variation on radiotherapy with personalized motion-assessed margins. Physics in Medicine and Biology, 2011, 56, 7033-7043.	3.0	6
149	A multicentre study of the evidence for customized margins in photon breast boost radiotherapy. British Journal of Radiology, 2016, 89, 20150603.	2.2	6
150	Statistical limitations in ion imaging. Physics in Medicine and Biology, 2021, 66, 105009.	3.0	6
151	A multicentre observational study evaluating image-guided radiotherapy for more accurate partial-breast intensity-modulated radiotherapy: comparison with standard imaging technique. Efficacy and Mechanism Evaluation, 2014, 1, 1-74.	0.7	6
152	Combinational use of conformal and intensity-modulated beams in radiotherapy planning. Physics in Medicine and Biology, 2003, 48, 1795-1807.	3.0	5
153	Patient radiation doses for electron beam CT. Medical Physics, 2005, 32, 2517-2527.	3.0	5
154	A quantitative study of IMRT delivery effects in commercial planning systems for the case of oesophagus and prostate tumours. British Journal of Radiology, 2006, 79, 401-408.	2.2	5
155	SU-FF-I-160: SpekCalc: A Free and User-Friendly Software Program for Calculating X-Ray Tube Spectra. Medical Physics, 2009, 36, 2472-2472.	3.0	5
156	Methods for transferring patient and plan data between radiotherapy treatment planning systems.. British Journal of Radiology, 1997, 70, 740-749.	2.2	4
157	A large-area ionization chamber for portal image calibration. Physics in Medicine and Biology, 1999, 44, 271-279.	3.0	4
158	The IMPORT HIGH Image-guided Radiotherapy Study: A Model for Assessing Image-guided Radiotherapy. Clinical Oncology, 2015, 27, 3-5.	1.4	4
159	The Challenge Facing Academic Radiotherapy Physics in the UK. Clinical Oncology, 2019, 31, 858-860.	1.4	4
160	Accuracy and precision of an external-marker tracking-system for radiotherapy treatments. British Journal of Radiology, 2006, 79, 808-817.	2.2	3
161	Evaluation of a three-dimensional ultrasound localisation system incorporating probe pressure correction for use in partial breast irradiation. British Journal of Radiology, 2009, 82, 839-846.	2.2	3
162	Imaging of moving fiducial markers during radiotherapy using a fast, efficient active pixel sensor based EPID. Medical Physics, 2011, 38, 6152-6159.	3.0	3

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