

# Philip M Evans

## List of Publications by Citations

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188  
papers

6,110  
citations

43  
h-index

69  
g-index

207  
ext. papers

6,878  
ext. citations

2.9  
avg, IF

5.53  
L-index

#	Paper	IF	Citations
188	SpekCalc: a program to calculate photon spectra from tungsten anode x-ray tubes. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, N433-8	3.8	421
187	Randomised trial of standard 2D radiotherapy (RT) versus intensity modulated radiotherapy (IMRT) in patients prescribed breast radiotherapy. <i>Radiotherapy and Oncology</i> , <b>2007</b> , 82, 254-64	5.3	354
186	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> , <b>2017</b> , 390, 1048-1060	4.0	269
185	Calculation of x-ray spectra emerging from an x-ray tube. Part I. electron penetration characteristics in x-ray targets. <i>Medical Physics</i> , <b>2007</b> , 34, 2164-74	4.4	139
184	Prone versus supine positioning for whole and partial-breast radiotherapy: a comparison of non-target tissue dosimetry. <i>Radiotherapy and Oncology</i> , <b>2010</b> , 96, 178-84	5.3	127
183	The UK HeartSpare Study: randomised evaluation of voluntary deep-inspiratory breath-hold in women undergoing breast radiotherapy. <i>Radiotherapy and Oncology</i> , <b>2013</b> , 108, 242-7	5.3	125
182	A cone-beam megavoltage CT scanner for treatment verification in conformal radiotherapy. <i>Radiotherapy and Oncology</i> , <b>1998</b> , 48, 319-28	5.3	117
181	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> , <b>2010</b> , 76, 747-54	4	108
180	The application of transit dosimetry to precision radiotherapy. <i>Medical Physics</i> , <b>1996</b> , 23, 713-21	4.4	100
179	The delivery of intensity modulated radiotherapy to the breast using multiple static fields. <i>Radiotherapy and Oncology</i> , <b>2000</b> , 57, 79-89	5.3	98
178	Proton radiography and tomography with application to proton therapy. <i>British Journal of Radiology</i> , <b>2015</b> , 88, 20150134	3.4	96
177	An efficient Monte Carlo-based algorithm for scatter correction in keV cone-beam CT. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 3847-64	3.8	94
176	Anatomical imaging for radiotherapy. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, R151-91	3.8	93
175	Inverse planning with constraints to generate smoothed intensity-modulated beams. <i>Physics in Medicine and Biology</i> , <b>1998</b> , 43, 2785-94	3.8	90
174	Scattered radiation in portal images: a Monte Carlo simulation and a simple physical model. <i>Medical Physics</i> , <b>1996</b> , 23, 63-73	4.4	80
173	Assessing the effect of electron density in photon dose calculations. <i>Medical Physics</i> , <b>2006</b> , 33, 540-52	4.4	77
172	A linear array, scintillation crystal-photodiode detector for megavoltage imaging. <i>Medical Physics</i> , <b>1991</b> , 18, 681-91	4.4	73

171	Independent verification using portal imaging of intensity-modulated beam delivery by the dynamic MLC technique. <i>Medical Physics</i> , <b>1998</b> , 25, 1872-9	4.4	72
170	Design of compensators for breast radiotherapy using electronic portal imaging. <i>Radiotherapy and Oncology</i> , <b>1995</b> , 37, 43-54	5.3	67
169	The role of texture analysis in imaging as an outcome predictor and potential tool in radiotherapy treatment planning. <i>British Journal of Radiology</i> , <b>2014</b> , 87, 20140369	3.4	66
168	A randomised trial of supine versus prone breast radiotherapy (SuPr study): comparing set-up errors and respiratory motion. <i>Radiotherapy and Oncology</i> , <b>2011</b> , 100, 221-6	5.3	65
167	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> , <b>2008</b> , 87, 65-73	5.3	65
166	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> , <b>2008</b> , 71, 41-50	4	64
165	Extraction of primary signal from EPIDs using only forward convolution. <i>Medical Physics</i> , <b>1997</b> , 24, 1477-84	4.4	63
164	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> , <b>2009</b> , 93, 424-9	5.3	61
163	The dosimetric consequences of inter-fractional patient movement on conventional and intensity-modulated breast radiotherapy treatments. <i>Radiotherapy and Oncology</i> , <b>2000</b> , 54, 57-64	5.3	58
162	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> , <b>2012</b> , 102, 347-51	5.3	57
161	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> , <b>2010</b> , 55, 3363-80	3.8	57
160	Evaluation of compensation in breast radiotherapy: a planning study using multiple static fields. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2000</b> , 46, 671-9	4	57
159	Quality assurance of the dose delivered by small radiation segments. <i>Physics in Medicine and Biology</i> , <b>1998</b> , 43, 2665-75	3.8	56
158	A megavoltage CT scanner for radiotherapy verification. <i>Physics in Medicine and Biology</i> , <b>1992</b> , 37, 1985-98	3.8	56
157	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> , <b>2015</b> , 114, 66-72	5.3	54
156	Dosimetric investigation of lung tumor motion compensation with a robotic respiratory tracking system: an experimental study. <i>Medical Physics</i> , <b>2008</b> , 35, 1232-40	4.4	52
155	Feasibility of using ultrasound for real-time tracking during radiotherapy. <i>Medical Physics</i> , <b>2005</b> , 32, 1500-12	4.4	52
154	Second cancer incidence risk estimates using BEIR VII models for standard and complex external beam radiotherapy for early breast cancer. <i>Medical Physics</i> , <b>2012</b> , 39, 5814-24	4.4	50

153	Relationship between irradiated breast volume and late normal tissue complications: a systematic review. <i>Radiotherapy and Oncology</i> , <b>2012</b> , 104, 1-10	5.3	49
152	Monte Carlo modelling of a-Si EPID response: the effect of spectral variations with field size and position. <i>Medical Physics</i> , <b>2006</b> , 33, 4527-40	4.4	48
151	Dosimetric evaluation of compensation in radiotherapy of the breast: MLC intensity modulation and physical compensators. <i>Radiotherapy and Oncology</i> , <b>1997</b> , 42, 249-56	5.3	47
150	Direct measurement and analytical modeling of scatter in portal imaging. <i>Medical Physics</i> , <b>2000</b> , 27, 462-71	4.4	47
149	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> , <b>1994</b> , 39, 2091-8	3.8	47
148	Dose-position and dose-volume histogram analysis of standard wedged and intensity modulated treatments in breast radiotherapy. <i>British Journal of Radiology</i> , <b>2002</b> , 75, 967-73	3.4	43
147	A randomised trial of patient repositioning during radiotherapy using a megavoltage imaging system. <i>Radiotherapy and Oncology</i> , <b>1994</b> , 31, 161-8	5.3	43
146	Image comparison techniques for use with megavoltage imaging systems. <i>British Journal of Radiology</i> , <b>1992</b> , 65, 701-9	3.4	43
145	Rapid portal imaging with a high-efficiency, large field-of-view detector. <i>Medical Physics</i> , <b>1998</b> , 25, 2333-41	4.4	42
144	Optimization of the scintillation detector in a combined 3D megavoltage CT scanner and portal imager. <i>Medical Physics</i> , <b>1998</b> , 25, 1880-90	4.4	41
143	Trajectory optimization for dynamic couch rotation during volumetric modulated arc radiotherapy. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 8163-77	3.8	40
142	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> , <b>2009</b> , 74, 1276-82	4	40
141	Characterization of target volume changes during breast radiotherapy using implanted fiducial markers and portal imaging. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2009</b> , 73, 958-66 <sup>4</sup>	4	40
140	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> , <b>2011</b> , 81, 369-75	4	39
139	Obtaining breathing patterns from any sequential thoracic x-ray image set. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 4879-88	3.8	39
138	In vivo liver tracking with a high volume rate 4D ultrasound scanner and a 2D matrix array probe. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 1359-74	3.8	39
137	Planning lung radiotherapy using 4D CT data and a motion model. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, 5815-30	3.8	38
136	Reproducibility of patient positioning during routine radiotherapy, as assessed by an integrated megavoltage imaging system. <i>Radiotherapy and Oncology</i> , <b>1995</b> , 35, 151-60	5.3	37

135	Tumour bed delineation for partial breast/breast boost radiotherapy: what is the optimal number of implanted markers?. <i>Radiotherapy and Oncology</i> , <b>2013</b> , 106, 231-5	5.3	36
134	Normal tissue complication probability (NTCP) parameters for breast fibrosis: pooled results from two randomised trials. <i>Radiotherapy and Oncology</i> , <b>2013</b> , 108, 293-8	5.3	36
133	Practical implementation of compensators in breast radiotherapy. <i>Radiotherapy and Oncology</i> , <b>1998</b> , 49, 255-65	5.3	36
132	Proton-counting radiography for proton therapy: a proof of principle using CMOS APS technology. <i>Physics in Medicine and Biology</i> , <b>2014</b> , 59, 2569-81	3.8	35
131	Evaluation of two methods of predicting MLC leaf positions using EPID measurements. <i>Medical Physics</i> , <b>2006</b> , 33, 3174-82	4.4	35
130	Combining dosimetry for targeted radionuclide and external beam therapies using the biologically effective dose. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , <b>2003</b> , 18, 89-97	3.9	35
129	Leaf position verification during dynamic beam delivery: a comparison of three applications using electronic portal imaging. <i>Medical Physics</i> , <b>2000</b> , 27, 1601-9	4.4	35
128	Application of the linear-quadratic model to combined modality radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2004</b> , 59, 228-41	4	34
127	The optimum intensities for multiple static multileaf collimator field compensation. <i>Medical Physics</i> , <b>1997</b> , 24, 1147-56	4.4	33
126	The UK HeartSpare Study (Stage II): Multicentre Evaluation of a Voluntary Breath-hold Technique in Patients Receiving Breast Radiotherapy. <i>Clinical Oncology</i> , <b>2017</b> , 29, e51-e56	2.8	32
125	Optimization of accelerator target and detector for portal imaging using Monte Carlo simulation and experiment. <i>Physics in Medicine and Biology</i> , <b>2002</b> , 47, 3331-49	3.8	32
124	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> , <b>2012</b> , 84, e109-14	4	31
123	Removal and effects of scatter-glare in cone-beam CT with an amorphous-silicon flat-panel detector. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 1837-51	3.8	31
122	Performance of ultrasound based measurement of 3D displacement using a curvilinear probe for organ motion tracking. <i>Physics in Medicine and Biology</i> , <b>2007</b> , 52, 5683-703	3.8	31
121	A low Z linac and flat panel imager: comparison with the conventional imaging approach. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, 6305-19	3.8	30
120	IMRT verification with a camera-based electronic portal imaging system. <i>Physics in Medicine and Biology</i> , <b>2000</b> , 45, N183-96	3.8	30
119	A margin model to account for respiration-induced tumour motion and its variability. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, 4317-30	3.8	29
118	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> , <b>2007</b> , 52, 3351-68	3.8	29

117	The design of megavoltage projection imaging systems: some theoretical aspects. <i>Medical Physics</i> , <b>1991</b> , 18, 855-66	4.4	28
116	Non-coplanar trajectories to improve organ at risk sparing in volumetric modulated arc therapy for primary brain tumors. <i>Radiotherapy and Oncology</i> , <b>2016</b> , 121, 124-131	5.3	28
115	Recent developments in non-coplanar radiotherapy. <i>British Journal of Radiology</i> , <b>2019</b> , 92, 20180908	3.4	27
114	A theoretical framework for prescribing radiotherapy dose distributions using patient-specific biological information. <i>Medical Physics</i> , <b>2008</b> , 35, 4599-611	4.4	27
113	Dose resolution in gel dosimetry: effect of uncertainty in the calibration function. <i>Physics in Medicine and Biology</i> , <b>2004</b> , 49, N139-46	3.8	27
112	Linear accelerator output variations and their consequences for megavoltage imaging. <i>Medical Physics</i> , <b>1998</b> , 25, 1443-52	4.4	27
111	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> , <b>2014</b> , 59, 5811-29	3.8	26
110	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> , <b>2011</b> , 100, 276-81	5.3	26
109	An investigation into methods of IMRT planning applied to breast radiotherapy. <i>British Journal of Radiology</i> , <b>2008</b> , 81, 311-22	3.4	25
108	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> , <b>2006</b> , 66, 1263-70	4	25
107	Proton computed tomography reconstruction using a backprojection-then-filtering approach. <i>Physics in Medicine and Biology</i> , <b>2014</b> , 59, 7905-18	3.8	24
106	An electronic portal imaging device for transit dosimetry. <i>Physics in Medicine and Biology</i> , <b>1997</b> , 42, 2273-83	3.8	24
105	Measurement of sub-barrier transfer reactions for $^{58}\text{Ni}+\text{Sn}$ using a recoil mass separator. <i>Physical Review Letters</i> , <b>1987</b> , 59, 978-981	7.4	23
104	Clinical applications of textural analysis in non-small cell lung cancer. <i>British Journal of Radiology</i> , <b>2018</b> , 91, 20170267	3.4	22
103	An experimental evaluation of the Agility MLC for motion-compensated VMAT delivery. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 4643-57	3.8	22
102	DynAMITe: a wafer scale sensor for biomedical applications. <i>Journal of Instrumentation</i> , <b>2011</b> , 6, C12064-C12064	4.1	21
101	Target-tracking deliveries on an Elekta linac: a feasibility study. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 3563-78	3.8	21
100	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> , <b>2006</b> , 33, 2809-18	4.4	21

99	Voluntary breath-hold technique for reducing heart dose in left breast radiotherapy. <i>Journal of Visualized Experiments</i> , <b>2014</b> ,	1.6	20
98	Optical scattering in camera-based electronic portal imaging. <i>Physics in Medicine and Biology</i> , <b>1999</b> , 44, 2381-96	3.8	20
97	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> , <b>2010</b> , 94, 292-9	5.3	19
96	Verification of patient position and delivery of IMRT by electronic portal imaging. <i>Radiotherapy and Oncology</i> , <b>2004</b> , 73, 339-47	5.3	19
95	A method of improving the spatial resolution of treatments that involve a multileaf collimator. <i>Physics in Medicine and Biology</i> , <b>2000</b> , 45, 609-22	3.8	19
94	PRaVDA: The first solid-state system for proton computed tomography. <i>Physica Medica</i> , <b>2018</b> , 55, 149-154	5.7	19
93	. <i>IEEE Transactions on Nuclear Science</i> , <b>2009</b> , 56, 2938-2946	1.7	18
92	Multileaf collimation cardiac shielding in breast radiotherapy: Cardiac doses are reduced, but at what cost?. <i>Clinical Oncology</i> , <b>2013</b> , 25, 690-6	2.8	17
91	Optical photon transport in powdered-phosphor scintillators. Part II. Calculation of single-scattering transport parameters. <i>Medical Physics</i> , <b>2013</b> , 40, 041905	4.4	17
90	Dose prescription complexity versus tumor control probability in biologically conformal radiotherapy. <i>Medical Physics</i> , <b>2009</b> , 36, 4379-88	4.4	17
89	Polymer gel measurement of dose homogeneity in the breast: comparing MLC intensity modulation with standard wedged delivery. <i>Physics in Medicine and Biology</i> , <b>2003</b> , 48, 1065-74	3.8	17
88	An experimental demonstration of a new type of proton computed tomography using a novel silicon tracking detector. <i>Medical Physics</i> , <b>2016</b> , 43, 6129	4.4	17
87	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> , <b>2014</b> , 59, 1701-20	3.8	16
86	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> , <b>2002</b> , 54, 1225-34	4	16
85	CT dosimetry: getting the best from the adult Cristy phantom. <i>Radiation Protection Dosimetry</i> , <b>2005</b> , 114, 321-5	0.9	16
84	How does imaging frequency and soft tissue motion affect the PTV margin size in partial breast and boost radiotherapy?. <i>Radiotherapy and Oncology</i> , <b>2012</b> , 103, 166-71	5.3	15
83	Optical photon transport in powdered-phosphor scintillators. Part 1. Multiple-scattering and validity of the Boltzmann transport equation. <i>Medical Physics</i> , <b>2013</b> , 40, 041904	4.4	15
82	Rayleigh scatter in kilovoltage x-ray imaging: is the independent atom approximation good enough?. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 6931-42	3.8	15

81	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> , <b>2001</b> , 46, 1451-71	3.8	15
80	Performance of a novel wafer scale CMOS active pixel sensor for bio-medical imaging. <i>Physics in Medicine and Biology</i> , <b>2014</b> , 59, 3533-54	3.8	14
79	Effects of averaging over motion and the resulting systematic errors in radiation therapy. <i>Physics in Medicine and Biology</i> , <b>2006</b> , 51, N1-7	3.8	14
78	Study of neutron transfer reactions at sub-coulomb energies using a recoil separator. <i>Nuclear Physics A</i> , <b>1989</b> , 499, 173-199	1.3	14
77	Gating characteristics of an Elekta radiotherapy treatment unit measured with three types of detector. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, N201-10	3.8	13
76	Analysis of the effects of the delivery technique on an IMRT plan: comparison for multiple static field, dynamic and NOMOS MIMiC collimation. <i>Physics in Medicine and Biology</i> , <b>2001</b> , 46, 3073-87	3.8	13
75	Radiological thickness measurement using a liquid ionization chamber electronic portal imaging device. <i>Physics in Medicine and Biology</i> , <b>1999</b> , 44, N89-97	3.8	13
74	CT reconstruction from portal images acquired during volumetric-modulated arc therapy. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, 5635-51	3.8	12
73	Electron beam quality control using an amorphous silicon EPID. <i>Medical Physics</i> , <b>2009</b> , 36, 1859-66	4.4	12
72	Initial patient imaging with an optimised radiotherapy beam for portal imaging. <i>Radiotherapy and Oncology</i> , <b>2005</b> , 76, 63-71	5.3	12
71	The dosimetric consequences of inter-fractional patient movement on three classes of intensity-modulated delivery techniques in breast radiotherapy. <i>Radiotherapy and Oncology</i> , <b>2001</b> , 59, 281-91	5.3	12
70	The practical implementation of a scatter model for portal imaging at 10 MV. <i>Physics in Medicine and Biology</i> , <b>1998</b> , 43, 2685-93	3.8	12
69	Technical note: the implementation of patient position correction using a megavoltage imaging device on a linear accelerator. <i>British Journal of Radiology</i> , <b>1993</b> , 66, 833-8	3.4	12
68	Proton Beam Therapy - the Challenges of Delivering High-quality Evidence of Clinical Benefit. <i>Clinical Oncology</i> , <b>2018</b> , 30, 280-284	2.8	11
67	The Multidimensional Integrated Intelligent Imaging project (MI-3). <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2009</b> , 604, 196-198	1.2	11
66	Expected proton signal sizes in the PRaVDA Range Telescope for proton Computed Tomography. <i>Journal of Instrumentation</i> , <b>2015</b> , 10, P05013-P05013	1	10
65	The use of PET images for radiotherapy treatment planning: an error analysis using radiobiological endpoints. <i>Medical Physics</i> , <b>2010</b> , 37, 516-31	4.4	10
64	The effect of object speed and direction on the performance of 3D speckle tracking using a 3D swept-volume ultrasound probe. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 7127-43	3.8	10



63	An investigation into the use of CMOS active pixel technology in image-guided radiotherapy. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, 3159-74	3.8	10
62	Dissipative reaction mechanisms in medium-mass nuclear collisions. <i>Nuclear Physics A</i> , <b>1991</b> , 526, 365-394	4.3	10
61	Development of video frame store and distortion correction facilities for an external-beam radiotherapy treatment simulator. <i>British Journal of Radiology</i> , <b>1991</b> , 64, 747-50	3.4	10
60	The validation index: a new metric for validation of segmentation algorithms using two or more expert outlines with application to radiotherapy planning. <i>IEEE Transactions on Medical Imaging</i> , <b>2013</b> , 32, 1481-9	11.7	9
59	Characterisation of regional variations in a stitched CMOS active pixel sensor. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2010</b> , 620, 540-548	1.2	9
58	Spatial aspects of combined modality radiotherapy. <i>Radiotherapy and Oncology</i> , <b>2005</b> , 77, 301-9	5.3	9
57	An intercomparison of IMRT delivery techniques: a case study for breast treatment. <i>Physics in Medicine and Biology</i> , <b>2001</b> , 46, N175-185	3.8	9
56	The effect of image guidance on dose distributions in breast boost radiotherapy. <i>Clinical Oncology</i> , <b>2014</b> , 26, 671-6	2.8	8
55	Monte Carlo simulations of CsI(Tl) scintillation crystals for use in a three-dimensional megavoltage CT scanner. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1994</b> , 348, 563-566	1.2	8
54	CMOS Active Pixel Sensors as energy-range detectors for proton Computed Tomography. <i>Journal of Instrumentation</i> , <b>2015</b> , 10,	1	7
53	Adaptive breast radiation therapy using modeling of tissue mechanics: a breast tissue segmentation study. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2012</b> , 84, e419-25	4	7
52	Towards real-time VMAT verification using a prototype, high-speed CMOS active pixel sensor. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 3359-75	3.8	7
51	Kilovoltage energy imaging with a radiotherapy linac with a continuously variable energy range. <i>Medical Physics</i> , <b>2012</b> , 39, 1218-26	4.4	7
50	The stability of imaging biomarkers in radiomics: a framework for evaluation. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 165012	3.8	6
49	Statistical limitations in proton imaging. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 085011	3.8	6
48	3D Liver tracking using a matrix array: Implications for ultrasonic guidance of IMRT <b>2010</b> ,		6
47	Dosimetric consequences of inter-fraction breathing-pattern variation on radiotherapy with personalized motion-assessed margins. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 7033-43	3.8	6
46	Comparative study of a low-Z cone-beam computed tomography system. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 4453-64	3.8	6

45	Fluoroscopy as a surrogate for lung tumour motion. <i>British Journal of Radiology</i> , <b>2012</b> , 85, 168-75	3.4	6
44	Monte Carlo and Lambertian light guide models of the light output from scintillation crystals at megavoltage energies. <i>Medical Physics</i> , <b>2006</b> , 33, 1797-809	4.4	6
43	A quantitative study of IMRT delivery effects in commercial planning systems for the case of oesophagus and prostate tumours. <i>British Journal of Radiology</i> , <b>2006</b> , 79, 401-8	3.4	5
42	Combinational use of conformal and intensity-modulated beams in radiotherapy planning. <i>Physics in Medicine and Biology</i> , <b>2003</b> , 48, 1795-807	3.8	5
41	Patient radiation doses for electron beam CT. <i>Medical Physics</i> , <b>2005</b> , 32, 2517-27	4.4	5
40	A multicentre observational study evaluating image-guided radiotherapy for more accurate partial-breast intensity-modulated radiotherapy: comparison with standard imaging technique. <i>Efficacy and Mechanism Evaluation</i> , <b>2014</b> , 1, 1-74	1.7	5
39	A multicentre study of the evidence for customized margins in photon breast boost radiotherapy. <i>British Journal of Radiology</i> , <b>2016</b> , 89, 20150603	3.4	4
38	Methods for transferring patient and plan data between radiotherapy treatment planning systems. <i>British Journal of Radiology</i> , <b>1997</b> , 70, 740-9	3.4	4
37	A large-area ionization chamber for portal image calibration. <i>Physics in Medicine and Biology</i> , <b>1999</b> , 44, 271-9	3.8	4
36	SU-FF-I-160: SpekCalc: A Free and User-Friendly Software Program for Calculating X-Ray Tube Spectra. <i>Medical Physics</i> , <b>2009</b> , 36, 2472-2472	4.4	4
35	Dosimetric accuracy of dynamic couch rotation during volumetric modulated arc therapy (DCR-VMAT) for primary brain tumours. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 08NT01	3.8	4
34	Imaging of moving fiducial markers during radiotherapy using a fast, efficient active pixel sensor based EPID. <i>Medical Physics</i> , <b>2011</b> , 38, 6152-9	4.4	3
33	Evaluation of a three-dimensional ultrasound localisation system incorporating probe pressure correction for use in partial breast irradiation. <i>British Journal of Radiology</i> , <b>2009</b> , 82, 839-46	3.4	3
32	Accuracy and precision of an external-marker tracking-system for radiotherapy treatments. <i>British Journal of Radiology</i> , <b>2006</b> , 79, 808-17	3.4	3
31	Mean heart dose variation over a course of breath-holding breast cancer radiotherapy. <i>British Journal of Radiology</i> , <b>2016</b> , 89, 20160536	3.4	3
30	An end-to-end assessment on the accuracy of adaptive radiotherapy in an MR-linac. <i>Physics in Medicine and Biology</i> , <b>2021</b> , 66, 055021	3.8	3
29	The IMPORT HIGH image-guided radiotherapy study: a model for assessing image-guided radiotherapy. <i>Clinical Oncology</i> , <b>2015</b> , 27, 3-5	2.8	2
28	Classification of fibroglandular tissue distribution in the breast based on radiotherapy planning CT. <i>BMC Medical Imaging</i> , <b>2016</b> , 16, 6	2.9	2

27	Does breast composition influence late adverse effects in breast radiotherapy?. <i>Breast</i> , <b>2016</b> , 26, 25-30	3.6	2
26	14 Evaluation of Pencil Beam, Collapsed Cone and Monte Carlo IMRT dose calculation algorithms for dual target sites. <i>Radiotherapy and Oncology</i> , <b>2005</b> , 76, S18	5.3	2
25	Analysis of stochastic noise in intensity-modulated beams. <i>Physics in Medicine and Biology</i> , <b>2004</b> , 49, 3853-85	3.8	2
24	Sampling considerations for intensity modulated radiotherapy verification using electronic portal imaging. <i>Medical Physics</i> , <b>2001</b> , 28, 543-52	4.4	2
23	Preliminary clinical performance of a scanning detector for rapid portal imaging. <i>Clinical Oncology</i> , <b>1994</b> , 6, 245-50	2.8	2
22	PO-0893: Dosimetric accuracy and delivery efficiency of dynamic couch rotation VMAT (DCR-VMAT). <i>Radiotherapy and Oncology</i> , <b>2018</b> , 127, S474	5.3	2
21	Factors influencing the robustness of P-value measurements in CT texture prognosis studies. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 5403-5416	3.8	1
20	Combining marker-less patient setup and respiratory motion monitoring using low cost 3D camera technology <b>2015</b> ,		1
19	Fast regional readout CMOS Image Sensor for dynamic MLC tracking. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 489, 012085	0.3	1
18	An experimental comparison of conventional two-bank and novel four-bank dynamic MLC tracking. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 1635-48	3.8	1
17	Technical note: suppression of artifacts arising from simultaneous cone-beam imaging and RF transponder tracking in prostate radiotherapy. <i>Medical Physics</i> , <b>2012</b> , 39, 1646-9	4.4	1
16	A Csi-Active Pixel Sensor Based Detector for Gamma Ray Imaging <b>2006</b> ,		1
15	Verification of dynamic MLC beam delivery using electronic portal imaging <b>2000</b> , 556-557		1
14	Molière maximum likelihood proton path estimation approximated by cubic Bézier curve for scatter corrected proton CT reconstruction. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 175003	3.8	1
13	TU-A-301-02: Evaluation of Breast Tissue Segmentation Methods Using Supine and Prone Computed Tomography Data. <i>Medical Physics</i> , <b>2011</b> , 38, 3745-3745	4.4	1
12	Machine learning for proton path tracking in proton computed tomography. <i>Physics in Medicine and Biology</i> , <b>2021</b> , 66,	3.8	1
11	Statistical limitations in ion imaging. <i>Physics in Medicine and Biology</i> , <b>2021</b> , 66,	3.8	1
10	Investigation of the accuracy of breast tissue segmentation methods for the purpose of developing breast deformation models for use in adaptive radiotherapy. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 489, 012030	0.3	0

9	Preliminary investigations of active pixel sensors in Nuclear Medicine imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2009</b> , 604, 86-88	1.2
8	A simple Monte Carlo based optimisation model to determine image contrast in an imaging system. <i>Journal of Physics: Conference Series</i> , <b>2008</b> , 102, 012019	0.3
7	The Dosimetric Consequences of Patient Movement on Three Classes of Intensity-Modulated Delivery Techniques in Breast Radiotherapy <b>2000</b> , 289-291	
6	The Use of Compensators and Multiple Static Fields for IMRT of the Breast <b>2000</b> , 208-209	
5	WE-C-AUD B-04: Normal Tissue Complication Probability: Updating the Model Parameters for Modern Radiotherapy. <i>Medical Physics</i> , <b>2008</b> , 35, 2933-2933	4.4
4	TU-A-12A-06: Intra-Observer Variability in Delineation of Target Volumes in Breast Radiotherapy and Its Effect On Accuracy of Deformation Measurements. <i>Medical Physics</i> , <b>2014</b> , 41, 451-451	4.4
3	SU-E-J-135: An Investigation of Ultrasound Imaging for 3D Intra-Fraction Prostate Motion Estimation. <i>Medical Physics</i> , <b>2014</b> , 41, 187-187	4.4
2	WE-D-220-03: The Effect of Object Speed on the Performance of 3D Speckle Tracking Using a 3D Swept-Volume Probe for the Purpose of Ultrasound-Guided Radiotherapy. <i>Medical Physics</i> , <b>2011</b> , 38, 3813-3813	4.4
1	Textural analysis and lung function study: Predicting lung fitness for radiotherapy from a CT scan. <i>BJR/Open</i> , <b>2019</b> , 1, 20180001	1.4