

# Marcel B Van Herk

## List of Publications by Year in descending order

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380  
papers

26,529  
citations

8732

75  
h-index

6979

154  
g-index

382  
all docs

382  
docs citations

382  
times ranked

11199  
citing authors

#	ARTICLE	IF	CITATIONS
1	Physics, 2006, 33, 3874-3900.	1.6	1,829
2	The probability of correct target dosage: dose-population histograms for deriving treatment margins in radiotherapy. International Journal of Radiation Oncology Biology Physics, 2000, 47, 1121-1135.	0.4	1,443
3	Precise and real-time measurement of 3D tumor motion in lung due to breathing and heartbeat, measured during radiotherapy. International Journal of Radiation Oncology Biology Physics, 2002, 53, 822-834.	0.4	1,251
4	Errors and margins in radiotherapy. Seminars in Radiation Oncology, 2004, 14, 52-64.	1.0	1,121
5	Imaging biomarker roadmap for cancer studies. Nature Reviews Clinical Oncology, 2017, 14, 169-186.	12.5	792
6	Physical aspects of a real-time tumor-tracking system for gated radiotherapy. International Journal of Radiation Oncology Biology Physics, 2000, 48, 1187-1195.	0.4	603
7	Respiratory correlated cone beam CT. Medical Physics, 2005, 32, 1176-1186.	1.6	579
8	Definition of the prostate in CT and MRI: a multi-observer study. International Journal of Radiation Oncology Biology Physics, 1999, 43, 57-66.	0.4	524
9	Quantification of organ motion during conformal radiotherapy of the prostate by three dimensional image registration. International Journal of Radiation Oncology Biology Physics, 1995, 33, 1311-1320.	0.4	481
10	Inclusion of geometric uncertainties in treatment plan evaluation. International Journal of Radiation Oncology Biology Physics, 2002, 52, 1407-1422.	0.4	474
11	CT-based delineation of organs at risk in the head and neck region: DAHANCA, EORTC, GORTEC, HKNPCSG, NCIC CTG, NCRI, NRG Oncology and TROG consensus guidelines. Radiotherapy and Oncology, 2015, 117, 83-90.	0.3	425
12	Quantification of shape variation of prostate and seminal vesicles during external beam radiotherapy. International Journal of Radiation Oncology Biology Physics, 2005, 61, 228-238.	0.4	327
13	Prostate gland motion assessed with cine-magnetic resonance imaging (cine-MRI). International Journal of Radiation Oncology Biology Physics, 2005, 62, 406-417.	0.4	321
14	Strategies to reduce the systematic error due to tumor and rectum motion in radiotherapy of prostate cancer. Radiotherapy and Oncology, 2005, 74, 177-185.	0.3	289
15	Reduction of observer variation using matched CT-PET for lung cancer delineation: A three-dimensional analysis. International Journal of Radiation Oncology Biology Physics, 2006, 64, 435-448.	0.4	289
16	Biologic and physical fractionation effects of random geometric errors. International Journal of Radiation Oncology Biology Physics, 2003, 57, 1460-1471.	0.4	288
17	The width of margins in radiotherapy treatment plans. Physics in Medicine and Biology, 2000, 45, 3331-3342.	1.6	265
18	A review of electronic portal imaging devices (EPIDs). Medical Physics, 1992, 19, 1-16.	1.6	263

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19	Comparison of Different Strategies to Use Four-Dimensional Computed Tomography in Treatment Planning for Lung Cancer Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 70, 1229-1238.	0.4	263
20	Variation in volumes, dose-volume histograms, and estimated normal tissue complication probabilities of rectum and bladder during conformal radiotherapy of T3 prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 1995, 33, 1109-1119.	0.4	251
21	Frameless Stereotactic Body Radiotherapy for Lung Cancer Using Four-Dimensional Cone Beam CT Guidance. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 74, 567-574.	0.4	246
22	Mid-ventilation CT scan construction from four-dimensional respiration-correlated CT scans for radiotherapy planning of lung cancer patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 65, 1560-1571.	0.4	242
23	A verification procedure to improve patient set-up accuracy using portal images. <i>Radiotherapy and Oncology</i> , 1993, 29, 253-260.	0.3	241
24	Clinical use of electronic portal imaging: Report of AAPM Radiation Therapy Committee Task Group 58. <i>Medical Physics</i> , 2001, 28, 712-737.	1.6	241
25	An Adaptive Off-Line Procedure for Radiotherapy of Prostate Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 67, 1559-1567.	0.4	234
26	Quantification and predictors of prostate position variability in 50 patients evaluated with multiple CT scans during conformal radiotherapy. <i>Radiotherapy and Oncology</i> , 1999, 50, 225-234.	0.3	232
27	Variability of Four-Dimensional Computed Tomography Patient Models. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 70, 590-598.	0.4	226
28	Automatic three-dimensional correlation of CT-CT, CT-MRI, and CT-SPECT using chamfer matching. <i>Medical Physics</i> , 1994, 21, 1163-1178.	1.6	213
29	Portal imaging to assess set-up errors, tumor motion and tumor shrinkage during conformal radiotherapy of non-small cell lung cancer. <i>Radiotherapy and Oncology</i> , 2003, 66, 75-85.	0.3	208
30	Margins for translational and rotational uncertainties: a probability-based approach. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002, 53, 464-474.	0.4	203
31	Dealing with geometric uncertainties in dose painting by numbers: Introducing the $\hat{V}H1$ This work was supported by Dutch Cancer Society grant 2007-3895.1. <i>Radiotherapy and Oncology</i> , 2011, 100, 402-406.	0.3	201
32	Impact of Anatomical Location on Value of CT-PET Co-Registration for Delineation of Lung Tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 70, 1403-1407.	0.4	198
33	A fast algorithm for local minimum and maximum filters on rectangular and octagonal kernels. <i>Pattern Recognition Letters</i> , 1992, 13, 517-521.	2.6	194
34	Accurate two-dimensional IMRT verification using a back-projection EPID dosimetry method. <i>Medical Physics</i> , 2006, 33, 259-273.	1.6	185
35	Target Definition in Prostate, Head, and Neck. <i>Seminars in Radiation Oncology</i> , 2005, 15, 136-145.	1.0	184
36	Automatic prostate localization on cone-beam CT scans for high precision image-guided radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005, 63, 975-984.	0.4	182

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37	Catching errors with <i>in vivo</i> EPID dosimetry. <i>Medical Physics</i> , 2010, 37, 2638-2644.	1.6	178
38	The potential impact of CT-MRI matching on tumor volume delineation in advanced head and neck cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 1997, 39, 841-848.	0.4	157
39	Image fusion for stereotactic radiotherapy and radiosurgery treatment planning. <i>International Journal of Radiation Oncology Biology Physics</i> , 1994, 28, 1229-1234.	0.4	156
40	Margins for geometric uncertainty around organs at risk in radiotherapy. <i>Radiotherapy and Oncology</i> , 2002, 62, 299-307.	0.3	156
41	3D Dosimetric verification of volumetric-modulated arc therapy by portal dosimetry. <i>Radiotherapy and Oncology</i> , 2010, 94, 181-187.	0.3	156
42	Robust radiotherapy planning. <i>Physics in Medicine and Biology</i> , 2018, 63, 22TR02.	1.6	156
43	Setup Uncertainties of Anatomical Sub-Regions in Head-and-Neck Cancer Patients After Offline CBCT Guidance. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 73, 1566-1573.	0.4	152
44	Dose-response and ghosting effects of an amorphous silicon electronic portal imaging device. <i>Medical Physics</i> , 2003, 31, 285-295.	1.6	146
45	A fast algorithm for gamma evaluation in 3D. <i>Medical Physics</i> , 2007, 34, 1647-1654.	1.6	146
46	Observer variation in target volume delineation of lung cancer related to radiation oncologist's computer interaction: A "Big Brother"™ evaluation. <i>Radiotherapy and Oncology</i> , 2005, 77, 182-190.	0.3	145
47	A matrix ionisation chamber imaging device for on-line patient setup verification during radiotherapy. <i>Radiotherapy and Oncology</i> , 1988, 11, 369-378.	0.3	143
48	Magnetic resonance image-directed stereotactic neurosurgery: use of image fusion with computerized tomography to enhance spatial accuracy. <i>Journal of Neurosurgery</i> , 1995, 83, 271-276.	0.9	140
49	Radiation dose to heart base linked with poorer survival in lung cancer patients. <i>European Journal of Cancer</i> , 2017, 85, 106-113.	1.3	136
50	A simple backprojection algorithm for 3D <i>in vivo</i> EPID dosimetry of IMRT treatments. <i>Medical Physics</i> , 2009, 36, 3310-3321.	1.6	134
51	Different Styles of Image-Guided Radiotherapy. <i>Seminars in Radiation Oncology</i> , 2007, 17, 258-267.	1.0	133
52	Magnetic Resonance Imaging-Guided Adaptive Radiation Therapy: A "Game Changer" for Prostate Treatment?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 100, 361-373.	0.4	132
53	On-the-fly motion-compensated cone-beam CT using an <i>a priori</i> model of the respiratory motion. <i>Medical Physics</i> , 2009, 36, 2283-2296.	1.6	129
54	Reconstruction of a time-averaged midposition CT scan for radiotherapy planning of lung cancer	1.6	128

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55	Automatic three-dimensional inspection of patient setup in radiation therapy using portal images, simulator images, and computed tomography data. <i>Medical Physics</i> , 1996, 23, 389-399.	1.6	125
56	MRI-guided prostate adaptive radiotherapy – A systematic review. <i>Radiotherapy and Oncology</i> , 2016, 119, 371-380.	0.3	124
57	Kilo-Voltage Cone-Beam Computed Tomography Setup Measurements for Lung Cancer Patients; First Clinical Results and Comparison With Electronic Portal-Imaging Device. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 68, 555-561.	0.4	116
58	Automatic on-line inspection of patient setup in radiation therapy using digital portal images. <i>Medical Physics</i> , 1993, 20, 667-677.	1.6	114
59	Target margins for random geometrical treatment uncertainties in conformal radiotherapy. <i>Medical Physics</i> , 1996, 23, 1537-1545.	1.6	114
60	Target volumes in radiotherapy for high-grade malignant glioma of the brain. <i>Radiotherapy and Oncology</i> , 2000, 56, 151-156.	0.3	114
61	Fusion of respiration-correlated PET and CT scans: correlated lung tumour motion in anatomical and functional scans. <i>Physics in Medicine and Biology</i> , 2005, 50, 1569-1583.	1.6	113
62	Magnetic resonance–guided radiation therapy: A review. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2020, 64, 163-177.	0.9	104
63	3-D portal image analysis in clinical practice: an evaluation of 2-D and 3-D analysis techniques as applied to 30 prostate cancer patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000, 46, 1281-1290.	0.4	102
64	Acute Toxicity After Image-Guided Intensity Modulated Radiation Therapy Compared to 3D Conformal Radiation Therapy in Prostate Cancer Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 91, 737-744.	0.4	102
65	Replacing Pretreatment Verification With In Vivo EPID Dosimetry for Prostate IMRT. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 67, 1568-1577.	0.4	99
66	Reduction of dose delivered to the rectum and bulb of the penis using MRI delineation for radiotherapy of the prostate. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003, 57, 1269-1279.	0.4	95
67	Urinary Obstruction in Prostate Cancer Patients From the Dutch Trial (68 Gy vs. 78 Gy): Relationships With Local Dose, Acute Effects, and Baseline Characteristics. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 78, 19-25.	0.4	93
68	Radiotherapy-Related Lymphopenia Affects Overall Survival in Patients With Lung Cancer. <i>Journal of Thoracic Oncology</i> , 2020, 15, 1624-1635.	0.5	89
69	The Influence of a Dietary Protocol on Cone Beam CT–Guided Radiotherapy for Prostate Cancer Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 71, 1279-1286.	0.4	87
70	A general methodology for three-dimensional analysis of variation in target volume delineation. <i>Medical Physics</i> , 1999, 26, 931-940.	1.6	86
71	New Method to Obtain the Midplane Dose Using Portal In Vivo Dosimetry. <i>International Journal of Radiation Oncology Biology Physics</i> , 1998, 41, 465-474.	0.4	83
72	Magnetic Resonance Imaging–Guided Radiation Therapy: A Short Strengths, Weaknesses, Opportunities, and Threats Analysis. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 101, 1057-1060.	0.4	83

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73	The long-term stability of amorphous silicon flat panel imaging devices for dosimetry purposes. <i>Medical Physics</i> , 2004, 31, 2989-2995.	1.6	81
74	First clinical experience with a newly developed electronic portal imaging device. <i>International Journal of Radiation Oncology Biology Physics</i> , 1990, 18, 1173-1181.	0.4	80
75	Fast evaluation of patient set-up during radiotherapy by aligning features in portal and simulator images. <i>Physics in Medicine and Biology</i> , 1991, 36, 1665-1679.	1.6	78
76	Transmission dosimetry with a liquid-filled electronic portal imaging device. <i>International Journal of Radiation Oncology Biology Physics</i> , 1996, 34, 931-941.	0.4	76
77	Tumor motion and deformation during external radiotherapy of bladder cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 64, 1551-1558.	0.4	76
78	Dosimetric characteristics of a liquid-filled electronic portal imaging device. <i>International Journal of Radiation Oncology Biology Physics</i> , 1995, 33, 1265-1272.	0.4	75
79	Radiation field edge detection in portal images. <i>Physics in Medicine and Biology</i> , 1991, 36, 1705-1710.	1.6	73
80	When should systematic patient positioning errors in radiotherapy be corrected?. <i>Physics in Medicine and Biology</i> , 2002, 47, N297-N302.	1.6	72
81	Short-term and long-term reproducibility of lung tumor position using active breathing control (ABC). <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 65, 1553-1559.	0.4	72
82	Toward adaptive radiotherapy for head and neck patients: Uncertainties in dose warping due to the choice of deformable registration algorithm. <i>Medical Physics</i> , 2015, 42, 760-769.	1.6	72
83	Quantification of local rectal wall displacements by virtual rectum unfolding. <i>Radiotherapy and Oncology</i> , 2004, 70, 21-30.	0.3	71
84	Clinical experience with EPID dosimetry for prostate IMRT pre-treatment dose verification. <i>Medical Physics</i> , 2006, 33, 3921-3930.	1.6	71
85	3D in vivo dose verification of entire hypo-fractionated IMRT treatments using an EPID and cone-beam CT. <i>Radiotherapy and Oncology</i> , 2008, 86, 35-42.	0.3	70
86	A liquid ionisation detector for digital radiography of therapeutic megavoltage photon beams. <i>Physics in Medicine and Biology</i> , 1985, 30, 313-321.	1.6	69
87	Computerized design of target margins for treatment uncertainties in conformal radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 1999, 43, 437-445.	0.4	69
88	Decreased 3D observer variation with matched CT-MRI, for target delineation in Nasopharynx cancer. <i>Radiation Oncology</i> , 2010, 5, 21.	1.2	67
89	Multiple comparisons permutation test for image based data mining in radiotherapy. <i>Radiation Oncology</i> , 2013, 8, 293.	1.2	67
90	IMRT optimization including random and systematic geometric errors based on the expectation of TCP and NTCP. <i>Medical Physics</i> , 2007, 34, 3544-3555.	1.6	66

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91	99mTc Hynic-rh-Annexin V scintigraphy for in vivo imaging of apoptosis in patients with head and neck cancer treated with chemoradiotherapy. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2008, 35, 509-518.	3.3	65
92	Lipiodol injection for target volume delineation and image guidance during radiotherapy for bladder cancer. <i>Radiotherapy and Oncology</i> , 2009, 93, 364-367.	0.3	64
93	Impact of geometrical uncertainties on 3D CRT and IMRT dose distributions for lung cancer treatment. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 65, 1260-1269.	0.4	63
94	<i>In aqua vivo</i> EPID dosimetry. <i>Medical Physics</i> , 2011, 39, 367-377.	1.6	63
95	Image guidance in radiation therapy for better cure of cancer. <i>Molecular Oncology</i> , 2020, 14, 1470-1491.	2.1	63
96	First clinical tests using a liquid-filled electronic portal imaging device and a convolution model for the verification of the midplane dose. <i>Radiotherapy and Oncology</i> , 1998, 47, 303-312.	0.3	62
97	Reproducibility of the bladder shape and bladder shape changes during filling. <i>Medical Physics</i> , 2005, 32, 2590-2597.	1.6	62
98	Acute Esophagus Toxicity in Lung Cancer Patients After Intensity Modulated Radiation Therapy and Concurrent Chemotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 84, e223-e228.	0.4	62
99	Target volume delineation variation in radiotherapy for early stage rectal cancer in the Netherlands. <i>Radiotherapy and Oncology</i> , 2012, 102, 14-21.	0.3	62
100	Novel Methodology to Investigate the Effect of Radiation Dose to Heart Substructures on Overall Survival. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 108, 1073-1081.	0.4	62
101	A convolution model to convert transmission dose images to exit dose distributions. <i>Medical Physics</i> , 1997, 24, 189-199.	1.6	61
102	Overview of 3-year experience with large-scale electronic portal imaging device-based 3-dimensional transit dosimetry. <i>Practical Radiation Oncology</i> , 2015, 5, e679-e687.	1.1	61
103	Three-dimensional dose reconstruction of breast cancer treatment using portal imaging. <i>Medical Physics</i> , 2003, 30, 2376-2389.	1.6	60
104	Physical aspects of a liquid-filled ionization chamber with pulsed polarizing voltage. <i>Medical Physics</i> , 1991, 18, 692-702.	1.6	59
105	Comparison of ghosting effects for three commercial a-Si EPIDs. <i>Medical Physics</i> , 2006, 33, 2448-2451.	1.6	59
106	Effects of Setup Errors and Shape Changes on Breast Radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 79, 1557-1564.	0.4	59
107	Deformable Image Registration for Adaptive Radiation Therapy of Head and Neck Cancer: Accuracy and Precision in the Presence of Tumor Changes. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 90, 680-687.	0.4	59
108	Dose-surface maps identifying local dose-effects for acute gastrointestinal toxicity after radiotherapy for prostate cancer. <i>Radiotherapy and Oncology</i> , 2015, 117, 515-520.	0.3	59



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109	Automatic <i>in vivo</i> portal dosimetry of all treatments. <i>Physics in Medicine and Biology</i> , 2013, 58, 8253-8264.	1.6	57
110	A model to simulate day-to-day variations in rectum shape. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002, 54, 615-625.	0.4	56
111	Automatic localization of the prostate for on-line or off-line image-guided radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 60, 623-635.	0.4	56
112	Quantification of the Variability of Diaphragm Motion and Implications for Treatment Margin Construction. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 82, e399-e407.	0.4	55
113	Two-dimensional exit dosimetry using a liquid-filled electronic portal imaging device and a convolution model. <i>Radiotherapy and Oncology</i> , 1997, 44, 149-157.	0.3	53
114	The effects of target size and tissue density on the minimum margin required for random errors. <i>Medical Physics</i> , 2004, 31, 3068-3079.	1.6	53
115	The sensitivity of dose distributions for organ motion and set-up uncertainties in prostate IMRT. <i>Radiotherapy and Oncology</i> , 2005, 76, 18-26.	0.3	52
116	Short-Term Displacement and Reproducibility of the Breast and Nodal Targets Under Active Breathing Control. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 68, 541-546.	0.4	52
117	The effect of set-up uncertainties, contour changes, and tissue inhomogeneities on target dose-volume histograms. <i>Medical Physics</i> , 2002, 29, 2305-2318.	1.6	51
118	Behavior of Lipiodol Markers During Image Guided Radiotherapy of Bladder Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 77, 309-314.	0.4	51
119	Nodal stage migration and prognosis in anal cancer: a systematic review, meta-regression, and simulation study. <i>Lancet Oncology</i> , The, 2017, 18, 1348-1359.	5.1	51
120	The dose response relationship of a liquid-filled electronic portal imaging device. <i>Medical Physics</i> , 1996, 23, 1601-1611.	1.6	50
121	<sup>99m</sup> Tc-HYNIC-rh-annexin-V scintigraphy: visual and quantitative evaluation of early treatment-induced apoptosis to predict treatment outcome. <i>Nuclear Medicine Communications</i> , 2008, 29, 39-44.	0.5	50
122	Interactive three dimensional inspection of patient setup in radiation therapy using digital portal images and computed tomography data. <i>International Journal of Radiation Oncology Biology Physics</i> , 1996, 34, 873-885.	0.4	49
123	Strategies for Online Organ Motion Correction for Intensity-Modulated Radiotherapy of Prostate Cancer: Prostate, Rectum, and Bladder Dose Effects. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 75, 1254-1260.	0.4	49
124	Online 3D EPID-based dose verification: Proof of concept. <i>Medical Physics</i> , 2016, 43, 3969-3974.	1.6	49
125	Automatic registration of pelvic computed tomography data and magnetic resonance scans including a full circle method for quantitative accuracy evaluation. <i>Medical Physics</i> , 1998, 25, 2054-2067.	1.6	48
126	Irradiation of paranasal sinus tumors, a delineation and dose comparison study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002, 52, 120-127.	0.4	46



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127	First clinical experience with a multiple region of interest registration and correction method in radiotherapy of head-and-neck cancer patients. <i>Radiotherapy and Oncology</i> , 2010, 94, 213-217.	0.3	45
128	Optimization of automatic portal image analysis. <i>Medical Physics</i> , 1995, 22, 1089-1099.	1.6	44
129	Head and Neck Margin Reduction With Adaptive Radiation Therapy: Robustness of Treatment Plans Against Anatomy Changes. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 96, 653-660.	0.4	44
130	Effects of anatomical changes on pencil beam scanning proton plans in locally advanced NSCLC patients. <i>Radiotherapy and Oncology</i> , 2016, 120, 286-292.	0.3	44
131	Effects of Respiration-Induced Density Variations on Dose Distributions in Radiotherapy of Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 74, 1266-1275.	0.4	43
132	<i>Physics</i> , 2006, 33, 3874-3900.	1.6	43
133	Optimal combination of anti-scatter grids and software correction for CBCT imaging. <i>Medical Physics</i> , 2017, 44, 4437-4451.	1.6	42
134	Post-treatment lymphocytopaenia, integral body dose and overall survival in lung cancer patients treated with radical radiotherapy. <i>Radiotherapy and Oncology</i> , 2019, 135, 115-119.	0.3	42
135	Automatic verification of radiation field shape using digital portal images. <i>Medical Physics</i> , 1992, 19, 1007-1014.	1.6	41
136	Repeat CT assessed CTV variation and PTV margins for short- and long-course pre-operative RT of rectal cancer. <i>Radiotherapy and Oncology</i> , 2012, 102, 399-405.	0.3	41
137	A model to predict bladder shapes from changes in bladder and rectal filling. <i>Medical Physics</i> , 2004, 31, 1415-1423.	1.6	40
138	Strategy for Online Correction of Rotational Organ Motion for Intensity-Modulated Radiotherapy of Prostate Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 69, 1608-1617.	0.4	40
139	Relating Dose Outside the Prostate With Freedom From Failure in the Dutch Trial 68 Gy vs. 78 Gy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 77, 131-138.	0.4	40
140	Correction strategies to manage deformations in head-and-neck radiotherapy. <i>Radiotherapy and Oncology</i> , 2010, 94, 199-205.	0.3	40
141	Leukemia and brain tumors among children after radiation exposure from CT scans: design and methodological opportunities of the Dutch Pediatric CT Study. <i>European Journal of Epidemiology</i> , 2014, 29, 293-301.	2.5	40
142	A comprehensive system for the analysis of portal images. <i>Radiotherapy and Oncology</i> , 1993, 29, 221-229.	0.3	39
143	Comparative study of respiratory motion correction techniques in cone-beam computed tomography. <i>Radiotherapy and Oncology</i> , 2011, 100, 356-359.	0.3	39
144	A novel method for megavoltage scatter correction in cone-beam CT acquired concurrent with rotational irradiation. <i>Radiotherapy and Oncology</i> , 2011, 100, 365-369.	0.3	39

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145	Residual Setup Errors Towards the Heart After Image Guidance Linked With Poorer Survival in Lung Cancer Patients: Do We Need Stricter IGRT Protocols?. International Journal of Radiation Oncology Biology Physics, 2018, 102, 434-442.	0.4	39
146	Comparison of prostate cancer treatment in two institutions: a quality control study. International Journal of Radiation Oncology Biology Physics, 1999, 45, 1055-1062.	0.4	38
147	Leaf position verification during dynamic beam delivery: A comparison of three applications using electronic portal imaging. Medical Physics, 2000, 27, 1601-1609.	1.6	38
148	Field size reduction enables Iso-NTCP escalation of tumor control probability for irradiation of lung tumors. International Journal of Radiation Oncology Biology Physics, 2001, 51, 1290-1298.	0.4	38
149	Probabilistic objective functions for margin-less IMRT planning. Physics in Medicine and Biology, 2013, 58, 3563-3580.	1.6	38
150	An algorithm for automatic analysis of portal images: clinical evaluation for prostate treatments. Radiotherapy and Oncology, 1993, 29, 261-268.	0.3	37
151	Anatomy changes in radiotherapy detected using portal imaging. Radiotherapy and Oncology, 2006, 79, 211-217.	0.3	35
152	Inter- and intra-fractional bladder motion during radiotherapy for bladder cancer: A comparison of full and empty bladders. Radiotherapy and Oncology, 2014, 113, 254-259.	0.3	35
153	Demonstration of a reduction in muscarinic receptor binding in early Alzheimer's disease using iodine-123 dextimide single-photon emission tomography. European Journal of Nuclear Medicine and Molecular Imaging, 1997, 24, 602-608.	2.2	34
154	Finite element based bladder modeling for image-guided radiotherapy of bladder cancer. Medical Physics, 2011, 38, 142-150.	1.6	34
155	Dental students' attitude towards anti-smoking programmes: a study in Flanders, Belgium. European Journal of Dental Education, 2007, 11, 177-183.	1.0	33
156	Image-based Data Mining to Probe Dosimetric Correlates of Radiation-induced Trismus. International Journal of Radiation Oncology Biology Physics, 2018, 102, 1330-1338.	0.4	32
157	Time trends in organ position and volume in patients receiving prostate three-dimensional conformal radiotherapy. Radiotherapy and Oncology, 2002, 62, 261-265.	0.3	31
158	Simplifying EPID dosimetry for IMRT treatment verification. Medical Physics, 2011, 38, 983-992.	1.6	31
159	Adaptive radiotherapy with an average anatomy model: Evaluation and quantification of residual deformations in head and neck cancer patients. Radiotherapy and Oncology, 2013, 109, 463-468.	0.3	31
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