Marcel B Van Herk

List of Publications by Year
in descending order

380 papers	26,529 citations	8755 75 h-index	6996 154 g-index
382 all docs	382 docs citations	382 times ranked	11199 citing authors

#	Article	IF	Citations
1	Physics, 2006, 33, 3874-3900.	3.0	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.	0.8	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.	0.8	1,251
4	Errors and margins in radiotherapy. Seminars in Radiation Oncology, 2004, 14, 52-64.	2.2	1,121
5	Imaging biomarker roadmap for cancer studies. Nature Reviews Clinical Oncology, 2017, 14, 169-186.	27.6	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.	0.8	603
7	Respiratory correlated cone beam CT. Medical Physics, 2005, 32, 1176-1186.	3.0	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.	0.8	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.	0.8	481
10	Inclusion of geometric uncertainties in treatment plan evaluation. International Journal of Radiation Oncology Biology Physics, 2002, 52, 1407-1422.	0.8	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.	0.6	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.	0.8	327
13	Prostate gland motion assessed with cine-magnetic resonance imaging (cine-MRI). International Journal of Radiation Oncology Biology Physics, 2005, 62, 406-417.	0.8	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.	0.6	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.	0.8	289
16	Biologic and physical fractionation effects of random geometric errors. International Journal of Radiation Oncology Biology Physics, 2003, 57, 1460-1471.	0.8	288
17	The width of margins in radiotherapy treatment plans. Physics in Medicine and Biology, 2000, 45, 3331-3342.	3.0	265
18	A review of electronic portal imaging devices (EPIDs). Medical Physics, 1992, 19, 1-16.	3.0	263

#	Article	IF	Citations
19	Comparison of Different Strategies to Use Four-Dimensional Computed Tomography in Treatment Planning for Lung Cancer Patients. International Journal of Radiation Oncology Biology Physics, 2008, 70, 1229-1238.	0.8	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. International Journal of Radiation Oncology Biology Physics, 1995, 33, 1109-1119.	0.8	251
21	Frameless Stereotactic Body Radiotherapy for Lung Cancer Using Four-Dimensional Cone Beam CT Guidance. International Journal of Radiation Oncology Biology Physics, 2009, 74, 567-574.	0.8	246
22	Mid-ventilation CT scan construction from four-dimensional respiration-correlated CT scans for radiotherapy planning of lung cancer patients. International Journal of Radiation Oncology Biology Physics, 2006, 65, 1560-1571.	0.8	242
23	A verification procedure to improve patient set-up accuracy using portal images. Radiotherapy and Oncology, 1993, 29, 253-260.	0.6	241
24	Clinical use of electronic portal imaging: Report of AAPM Radiation Therapy Committee Task Group 58. Medical Physics, 2001, 28, 712-737.	3.0	241
25	An Adaptive Off-Line Procedure for Radiotherapy of Prostate Cancer. International Journal of Radiation Oncology Biology Physics, 2007, 67, 1559-1567.	0.8	234
26	Quantification and predictors of prostate position variability in 50 patients evaluated with multiple CT scans during conformal radiotherapy. Radiotherapy and Oncology, 1999, 50, 225-234.	0.6	232
27	Variability of Four-Dimensional Computed Tomography Patient Models. International Journal of Radiation Oncology Biology Physics, 2008, 70, 590-598.	0.8	226
28	Automatic three-dimensional correlation of CT-CT, CT-MRI, and CT-SPECT using chamfer matching. Medical Physics, 1994, 21, 1163-1178.	3.0	213
29	Portal imaging to assess set-up errors, tumor motion and tumor shrinkage during conformal radiotherapy of non-small cell lung cancer. Radiotherapy and Oncology, 2003, 66, 75-85.	0.6	208
30	Margins for translational and rotational uncertainties: a probability-based approach. International Journal of Radiation Oncology Biology Physics, 2002, 53, 464-474.	0.8	203
31	Dealing with geometric uncertainties in dose painting by numbers: Introducing the Î"VH1This work was supported by Dutch Cancer Society grant 2007-3895.1. Radiotherapy and Oncology, 2011, 100, 402-406.	0.6	201
32	Impact of Anatomical Location on Value of CTâ€"PET Co-Registration for Delineation of Lung Tumors. International Journal of Radiation Oncology Biology Physics, 2008, 70, 1403-1407.	0.8	198
33	A fast algorithm for local minimum and maximum filters on rectangular and octagonal kernels. Pattern Recognition Letters, 1992, 13, 517-521.	4.2	194
34	Accurate two-dimensional IMRT verification using a back-projection EPID dosimetry method. Medical Physics, 2006, 33, 259-273.	3.0	185
35	Target Definition in Prostate, Head, and Neck. Seminars in Radiation Oncology, 2005, 15, 136-145.	2.2	184
36	Automatic prostate localization on cone-beam CT scans for high precision image-guided radiotherapy. International Journal of Radiation Oncology Biology Physics, 2005, 63, 975-984.	0.8	182

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37	Catching errors with *in vivo* EPID dosimetry. Medical Physics, 2010, 37, 2638-2644.	3.0	178
38	The potential impact of CT-MRI matching on tumor volume delineation in advanced head and neck cancer. International Journal of Radiation Oncology Biology Physics, 1997, 39, 841-848.	0.8	157
39	Image fusion for stereotactic radiotherapy and radiosurgery treatment planning. International Journal of Radiation Oncology Biology Physics, 1994, 28, 1229-1234.	0.8	156
40	Margins for geometric uncertainty around organs at risk in radiotherapy. Radiotherapy and Oncology, 2002, 62, 299-307.	0.6	156
41	3D Dosimetric verification of volumetric-modulated arc therapy by portal dosimetry. Radiotherapy and Oncology, 2010, 94, 181-187.	0.6	156
42	Robust radiotherapy planning. Physics in Medicine and Biology, 2018, 63, 22TR02.	3.0	156
43	Setup Uncertainties of Anatomical Sub-Regions in Head-and-Neck Cancer Patients After Offline CBCT Guidance. International Journal of Radiation Oncology Biology Physics, 2009, 73, 1566-1573.	0.8	152
44	Dose-response and ghosting effects of an amorphous silicon electronic portal imaging device. Medical Physics, 2003, 31, 285-295.	3.0	146
45	A fast algorithm for gamma evaluation in 3D. Medical Physics, 2007, 34, 1647-1654.	3.0	146
46	Observer variation in target volume delineation of lung cancer related to radiation oncologistâ€"computer interaction: A â€˜Big Brotherâ€™ evaluation. Radiotherapy and Oncology, 2005, 77, 182-190.	0.6	145
47	A matrix ionisation chamber imaging device for on-line patient setup verification during radiotherapy. Radiotherapy and Oncology, 1988, 11, 369-378.	0.6	143
48	Magnetic resonance imageâ€"directed stereotactic neurosurgery: use of image fusion with computerized tomography to enhance spatial accuracy. Journal of Neurosurgery, 1995, 83, 271-276.	1.6	140
49	Radiation dose to heart base linked with poorer survival in lung cancer patients. European Journal of Cancer, 2017, 85, 106-113.	2.8	136
50	A simple backprojection algorithm for 3D *in vivo* EPID dosimetry of IMRT treatments. Medical Physics, 2009, 36, 3310-3321.	3.0	134
51	Different Styles of Image-Guided Radiotherapy. Seminars in Radiation Oncology, 2007, 17, 258-267.	2.2	133
52	Magnetic Resonance Imaging-Guided Adaptive Radiation Therapy: A â€œGame Changerâ€•for Prostate Treatment?. International Journal of Radiation Oncology Biology Physics, 2018, 100, 361-373.	0.8	132
53	Onâ€theâ€fly motionâ€compensated coneâ€beam CT using an *a priori* model of the respiratory motion. Medical Physics, 2009, 36, 2283-2296.	3.0	129
54	Reconstruction of a timeâ€averaged midposition CT scan for radiotherapy planning of lung cancer	3.0	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. Medical Physics, 1996, 23, 389-399.	3.0	125
56	MRI-guided prostate adaptive radiotherapy – A systematic review. Radiotherapy and Oncology, 2016, 119, 371-380.	0.6	124
57	Kilo-Voltage Cone-Beam Computed Tomography Setup Measurements for Lung Cancer Patients; First Clinical Results and Comparison With Electronic Portal-Imaging Device. International Journal of Radiation Oncology Biology Physics, 2007, 68, 555-561.	0.8	116
58	Automatic on-line inspection of patient setup in radiation therapy using digital portal images. Medical Physics, 1993, 20, 667-677.	3.0	114
59	Target margins for random geometrical treatment uncertainties in conformal radiotherapy. Medical Physics, 1996, 23, 1537-1545.	3.0	114
60	Target volumes in radiotherapy for high-grade malignant glioma of the brain. Radiotherapy and Oncology, 2000, 56, 151-156.	0.6	114
61	Fusion of respiration-correlated PET and CT scans: correlated lung tumour motion in anatomical and functional scans. Physics in Medicine and Biology, 2005, 50, 1569-1583.	3.0	113
62	Magnetic resonance–guided radiation therapy: A review. Journal of Medical Imaging and Radiation Oncology, 2020, 64, 163-177.	1.8	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. International Journal of Radiation Oncology Biology Physics, 2000, 46, 1281-1290.	0.8	102
64	Acute Toxicity After Image-Guided Intensity Modulated Radiation Therapy Compared to 3D Conformal Radiation Therapy in Prostate Cancer Patients. International Journal of Radiation Oncology Biology Physics, 2015, 91, 737-744.	0.8	102
65	Replacing Pretreatment Verification With In Vivo EPID Dosimetry for Prostate IMRT. International Journal of Radiation Oncology Biology Physics, 2007, 67, 1568-1577.	0.8	99
66	Reduction of dose delivered to the rectum and bulb of the penis using MRI delineation for radiotherapy of the prostate. International Journal of Radiation Oncology Biology Physics, 2003, 57, 1269-1279.	0.8	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. International Journal of Radiation Oncology Biology Physics, 2010, 78, 19-25.	0.8	93
68	Radiotherapy-Related Lymphopenia Affects Overall Survival in Patients With Lung Cancer. Journal of Thoracic Oncology, 2020, 15, 1624-1635.	1.1	89
69	The Influence of a Dietary Protocol on Cone Beam CT–Guided Radiotherapy for Prostate Cancer Patients. International Journal of Radiation Oncology Biology Physics, 2008, 71, 1279-1286.	0.8	87
70	A general methodology for three-dimensional analysis of variation in target volume delineation. Medical Physics, 1999, 26, 931-940.	3.0	86
71	New Method to Obtain the Midplane Dose Using Portal In Vivo Dosimetry. International Journal of Radiation Oncology Biology Physics, 1998, 41, 465-474.	0.8	83
72	Magnetic Resonance Imaging–Guided Radiation Therapy: A Short Strengths, Weaknesses, Opportunities, and Threats Analysis. International Journal of Radiation Oncology Biology Physics, 2018, 101, 1057-1060.	0.8	83

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73	The long-term stability of amorphous silicon flat panel imaging devices for dosimetry purposes. Medical Physics, 2004, 31, 2989-2995.	3.0	81
74	First clinical experience with a newly developed electronic portal imaging device. International Journal of Radiation Oncology Biology Physics, 1990, 18, 1173-1181.	0.8	80
75	Fast evaluation of patient set-up during radiotherapy by aligning features in portal and simulator images. Physics in Medicine and Biology, 1991, 36, 1665-1679.	3.0	78
76	Transmission dosimetry with a liquid-filled electronic portal imaging device. International Journal of Radiation Oncology Biology Physics, 1996, 34, 931-941.	0.8	76
77	Tumor motion and deformation during external radiotherapy of bladder cancer. International Journal of Radiation Oncology Biology Physics, 2006, 64, 1551-1558.	0.8	76
78	Dosimetric characteristics of a liquid-filled electronic portal imaging device. International Journal of Radiation Oncology Biology Physics, 1995, 33, 1265-1272.	0.8	75
79	Radiation field edge detection in portal images. Physics in Medicine and Biology, 1991, 36, 1705-1710.	3.0	73
80	When should systematic patient positioning errors in radiotherapy be corrected?. Physics in Medicine and Biology, 2002, 47, N297-N302.	3.0	72
81	Short-term and long-term reproducibility of lung tumor position using active breathing control (ABC). International Journal of Radiation Oncology Biology Physics, 2006, 65, 1553-1559.	0.8	72
82	Toward adaptive radiotherapy for head and neck patients: Uncertainties in dose warping due to the choice of deformable registration algorithm. Medical Physics, 2015, 42, 760-769.	3.0	72
83	Quantification of local rectal wall displacements by virtual rectum unfolding. Radiotherapy and Oncology, 2004, 70, 21-30.	0.6	71
84	Clinical experience with EPID dosimetry for prostate IMRT pre-treatment dose verification. Medical Physics, 2006, 33, 3921-3930.	3.0	71
85	3D in vivo dose verification of entire hypo-fractionated IMRT treatments using an EPID and cone-beam CT. Radiotherapy and Oncology, 2008, 86, 35-42.	0.6	70
86	A liquid ionisation detector for digital radiography of therapeutic megavoltage photon beams. Physics in Medicine and Biology, 1985, 30, 313-321.	3.0	69
87	Computerized design of target margins for treatment uncertainties in conformal radiotherapy. International Journal of Radiation Oncology Biology Physics, 1999, 43, 437-445.	0.8	69
88	Decreased 3D observer variation with matched CT-MRI, for target delineation in Nasopharynx cancer. Radiation Oncology, 2010, 5, 21.	2.7	67
89	Multiple comparisons permutation test for image based data mining in radiotherapy. Radiation Oncology, 2013, 8, 293.	2.7	67
90	IMRT optimization including random and systematic geometric errors based on the expectation of TCP and NTCP. Medical Physics, 2007, 34, 3544-3555.	3.0	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. European Journal of Nuclear Medicine and Molecular Imaging, 2008, 35, 509-518.	6.4	65
92	Lipiodol injection for target volume delineation and image guidance during radiotherapy for bladder cancer. Radiotherapy and Oncology, 2009, 93, 364-367.	0.6	64
93	Impact of geometrical uncertainties on 3D CRT and IMRT dose distributions for lung cancer treatment. International Journal of Radiation Oncology Biology Physics, 2006, 65, 1260-1269.	0.8	63
94	<i>In aqua vivo</i> EPID dosimetry. Medical Physics, 2011, 39, 367-377.	3.0	63
95	Image guidance in radiation therapy for better cure of cancer. Molecular Oncology, 2020, 14, 1470-1491.	4.6	63
96	First clinical tests using a liquid-filled electronic portal imaging device and a convolution model for the verification of the midplane dose. Radiotherapy and Oncology, 1998, 47, 303-312.	0.6	62
97	Reproducibility of the bladder shape and bladder shape changes during filling. Medical Physics, 2005, 32, 2590-2597.	3.0	62
98	Acute Esophagus Toxicity in Lung Cancer Patients After Intensity Modulated Radiation Therapy and Concurrent Chemotherapy. International Journal of Radiation Oncology Biology Physics, 2012, 84, e223-e228.	0.8	62
99	Target volume delineation variation in radiotherapy for early stage rectal cancer in the Netherlands. Radiotherapy and Oncology, 2012, 102, 14-21.	0.6	62
100	Novel Methodology to Investigate the Effect of Radiation Dose to Heart Substructures on Overall Survival. International Journal of Radiation Oncology Biology Physics, 2020, 108, 1073-1081.	0.8	62
101	A convolution model to convert transmission dose images to exit dose distributions. Medical Physics, 1997, 24, 189-199.	3.0	61
102	Overview of 3-year experience with large-scale electronic portal imaging device–based 3-dimensional transit dosimetry. Practical Radiation Oncology, 2015, 5, e679-e687.	2.1	61
103	Three-dimensional dose reconstruction of breast cancer treatment using portal imaging. Medical Physics, 2003, 30, 2376-2389.	3.0	60
104	Physical aspects of a liquid-filled ionization chamber with pulsed polarizing voltage. Medical Physics, 1991, 18, 692-702.	3.0	59
105	Comparison of ghosting effects for three commercial a-Si EPIDs. Medical Physics, 2006, 33, 2448-2451.	3.0	59
106	Effects of Setup Errors and Shape Changes on Breast Radiotherapy. International Journal of Radiation Oncology Biology Physics, 2011, 79, 1557-1564.	0.8	59
107	Deformable Image Registration for Adaptive Radiation Therapy of Head and Neck Cancer: Accuracy and Precision in the Presence of Tumor Changes. International Journal of Radiation Oncology Biology Physics, 2014, 90, 680-687.	0.8	59
108	Dose–surface maps identifying local dose–effects for acute gastrointestinal toxicity after radiotherapy for prostate cancer. Radiotherapy and Oncology, 2015, 117, 515-520.	0.6	59

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109	Automatic *in vivo* portal dosimetry of all treatments. Physics in Medicine and Biology, 2013, 58, 8253-8264.	3.0	57
110	A model to simulate day-to-day variations in rectum shape. International Journal of Radiation Oncology Biology Physics, 2002, 54, 615-625.	0.8	56
111	Automatic localization of the prostate for on-line or off-line image-guided radiotherapy. International Journal of Radiation Oncology Biology Physics, 2004, 60, 623-635.	0.8	56
112	Quantification of the Variability of Diaphragm Motion and Implications for Treatment Margin Construction. International Journal of Radiation Oncology Biology Physics, 2012, 82, e399-e407.	0.8	55
113	Two-dimensional exit dosimetry using a liquid-filled electronic portal imaging device and a convolution model. Radiotherapy and Oncology, 1997, 44, 149-157.	0.6	53
114	The effects of target size and tissue density on the minimum margin required for random errors. Medical Physics, 2004, 31, 3068-3079.	3.0	53
115	The sensitivity of dose distributions for organ motion and set-up uncertainties in prostate IMRT. Radiotherapy and Oncology, 2005, 76, 18-26.	0.6	52
116	Short-Term Displacement and Reproducibility of the Breast and Nodal Targets Under Active Breathing Control. International Journal of Radiation Oncology Biology Physics, 2007, 68, 541-546.	0.8	52
117	The effect of set-up uncertainties, contour changes, and tissue inhomogeneities on target dose-volume histograms. Medical Physics, 2002, 29, 2305-2318.	3.0	51
118	Behavior of Lipiodol Markers During Image Guided Radiotherapy of Bladder Cancer. International Journal of Radiation Oncology Biology Physics, 2010, 77, 309-314.	0.8	51
119	Nodal stage migration and prognosis in anal cancer: a systematic review, meta-regression, and simulation study. Lancet Oncology, The, 2017, 18, 1348-1359.	10.7	51
120	The dose response relationship of a liquid-filled electronic portal imaging device. Medical Physics, 1996, 23, 1601-1611.	3.0	50
121	99mTc-HYNIC-rh-annexin-V scintigraphy: visual and quantitative evaluation of early treatment-induced apoptosis to predict treatment outcome. Nuclear Medicine Communications, 2008, 29, 39-44.	1.1	50
122	Interactive three dimensional inspection of patient setup in radiation therapy using digital portal images and computed tomography data. International Journal of Radiation Oncology Biology Physics, 1996, 34, 873-885.	0.8	49
123	Strategies for Online Organ Motion Correction for Intensity-Modulated Radiotherapy of Prostate Cancer: Prostate, Rectum, and Bladder Dose Effects. International Journal of Radiation Oncology Biology Physics, 2009, 75, 1254-1260.	0.8	49
124	Online 3D EPID–based dose verification: Proof of concept. Medical Physics, 2016, 43, 3969-3974.	3.0	49
125	Automatic registration of pelvic computed tomography data and magnetic resonance scans including a full circle method for quantitative accuracy evaluation. Medical Physics, 1998, 25, 2054-2067.	3.0	48
126	Irradiation of paranasal sinus tumors, a delineation and dose comparison study. International Journal of Radiation Oncology Biology Physics, 2002, 52, 120-127.	0.8	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. Radiotherapy and Oncology, 2010, 94, 213-217.	0.6	45
128	Optimization of automatic portal image analysis. Medical Physics, 1995, 22, 1089-1099.	3.0	44
129	Head and Neck Margin Reduction With Adaptive Radiation Therapy: Robustness of Treatment Plans Against Anatomy Changes. International Journal of Radiation Oncology Biology Physics, 2016, 96, 653-660.	0.8	44
130	Effects of anatomical changes on pencil beam scanning proton plans in locally advanced NSCLC patients. Radiotherapy and Oncology, 2016, 120, 286-292.	0.6	44
131	Effects of Respiration-Induced Density Variations on Dose Distributions in Radiotherapy of Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2009, 74, 1266-1275.	0.8	43
132	Physics, 2006, 33, 3874-3900.	3.0	43
133	Optimal combination of anti€scatter grids and software correction for CBCT imaging. Medical Physics, 2017, 44, 4437-4451.	3.0	42
134	Post-treatment lymphocytopaenia, integral body dose and overall survival in lung cancer patients treated with radical radiotherapy. Radiotherapy and Oncology, 2019, 135, 115-119.	0.6	42
135	Automatic verification of radiation field shape using digital portal images. Medical Physics, 1992, 19, 1007-1014.	3.0	41
136	Repeat CT assessed CTV variation and PTV margins for short- and long-course pre-operative RT of rectal cancer. Radiotherapy and Oncology, 2012, 102, 399-405.	0.6	41
137	A model to predict bladder shapes from changes in bladder and rectal filling. Medical Physics, 2004, 31, 1415-1423.	3.0	40
138	Strategy for Online Correction of Rotational Organ Motion for Intensity-Modulated Radiotherapy of Prostate Cancer. International Journal of Radiation Oncology Biology Physics, 2007, 69, 1608-1617.	0.8	40
139	Relating Dose Outside the Prostate With Freedom From Failure in the Dutch Trial 68 Gy vs. 78 Gy. International Journal of Radiation Oncology Biology Physics, 2010, 77, 131-138.	0.8	40
140	Correction strategies to manage deformations in head-and-neck radiotherapy. Radiotherapy and Oncology, 2010, 94, 199-205.	0.6	40
141	Leukemia and brain tumors among children after radiation exposure from CT scans: design and methodological opportunities of the Dutch Pediatric CT Study. European Journal of Epidemiology, 2014, 29, 293-301.	5.7	40
142	A comprehensive system for the analysis of portal images. Radiotherapy and Oncology, 1993, 29, 221-229.	0.6	39
143	Comparative study of respiratory motion correction techniques in cone-beam computed tomography. Radiotherapy and Oncology, 2011, 100, 356-359.	0.6	39
144	A novel method for megavoltage scatter correction in cone-beam CT acquired concurrent with rotational irradiation. Radiotherapy and Oncology, 2011, 100, 365-369.	0.6	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.	0.8	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.	0.8	38
147	Leaf position verification during dynamic beam delivery: A comparison of three applications using electronic portal imaging. Medical Physics, 2000, 27, 1601-1609.	3.0	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.	0.8	38
149	Probabilistic objective functions for margin-less IMRT planning. Physics in Medicine and Biology, 2013, 58, 3563-3580.	3.0	38
150	An algorithm for automatic analysis of portal images: clinical evaluation for prostate treatments. Radiotherapy and Oncology, 1993, 29, 261-268.	0.6	37
151	Anatomy changes in radiotherapy detected using portal imaging. Radiotherapy and Oncology, 2006, 79, 211-217.	0.6	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.	0.6	35
153	Demonstration of a reduction in muscarinic receptor binding in early Alzheimer's disease using iodine-123 dexetimide single-photon emission tomography. European Journal of Nuclear Medicine and Molecular Imaging, 1997, 24, 602-608.	2.1	34
154	Finite element based bladder modeling for image†guided radiotherapy of bladder cancer. Medical Physics, 2011, 38, 142-150.	3.0	34
155	Dental students' attitude towards anti†smoking programmes: a study in Flanders, Belgium. European Journal of Dental Education, 2007, 11, 177-183.	2.0	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.	0.8	32
157	Time trends in organ position and volume in patients receiving prostate three-dimensional conformal radiotherapy. Radiotherapy and Oncology, 2002, 62, 261-265.	0.6	31
158	Simplifying EPID dosimetry for IMRT treatment verification. Medical Physics, 2011, 38, 983-992.	3.0	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.	0.6	31
160	Impact of daily anatomical changes on EPID-based in vivo dosimetry of VMAT treatments of head-and-neck cancer. Radiotherapy and Oncology, 2015, 116, 70-74.	0.6	31
161	Target delineation variability and corresponding margins of peripheral early stage NSCLC treated with stereotactic body radiotherapy. Radiotherapy and Oncology, 2015, 114, 361-366.	0.6	31
162	Adaptive radiotherapy for long course neo-adjuvant treatment of rectal cancer. Radiotherapy and Oncology, 2012, 103, 353-359.	0.6	30

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163	Registration accuracy and image quality of time averaged mid-position CT scans for liver SBRT. Radiotherapy and Oncology, 2013, 109, 404-408.	0.6	30
164	Detection of *In Vivo* Dynamic 3-D Motion Patterns in the Wrist Joint. IEEE Transactions on Biomedical Engineering, 2009, 56, 1236-1244.	4.2	29
165	Serotonin and dopamine transporters in relation to neuropsychological functioning, personality traits and mood in young adult healthy subjects. Psychological Medicine, 2011, 41, 419-429.	4.5	28
166	Mapping of treatment-induced apoptosis in normal structures: 99mTc-Hynic-rh-annexin V SPECT and CT image fusion. European Journal of Nuclear Medicine and Molecular Imaging, 2006, 33, 893-899.	6.4	27
167	The computation of MR image distortions caused by tissue susceptibility using the boundary element method. IEEE Transactions on Medical Imaging, 1996, 15, 620-627.	8.9	26
168	Application of video imaging for improvement of patient set-up. Radiotherapy and Oncology, 2003, 68, 277-284.	0.6	26
169	Leaf trajectory verification during dynamic intensity modulated radiotherapy using an amorphous silicon flat panel imager. Medical Physics, 2004, 31, 389-395.	3.0	26
170	Cardiac sub-volume targeting demonstrates regional radiosensitivity in the mouse heart. Radiotherapy and Oncology, 2020, 152, 216-221.	0.6	26
171	Automatic bladder segmentation on CBCT for multiple plan ART of bladder cancer using a patient-specific bladder model. Physics in Medicine and Biology, 2012, 57, 3945-3962.	3.0	25
172	Improved image quality of cone beam CT scans for radiotherapy image guidance using fiber-interspaced antiscatter grid. Medical Physics, 2014, 41, 061910.	3.0	25
173	Accurate MR Image Registration to Anatomical Reference Space for Diffuse Glioma. Frontiers in Neuroscience, 2020, 14, 585.	2.8	25
174	Radiotherapy with rectangular fields is associated with fewer clinical failures than conformal fields in the high-risk prostate cancer subgroup: Results from a randomized trial. Radiotherapy and Oncology, 2013, 107, 134-139.	0.6	24
175	Will IGRT live up to its promise?. Acta Oncológica, 2008, 47, 1186-1187.	1.8	23
176	Residual Seminal Vesicle Displacement in Marker-Based Image-Guided Radiotherapy for Prostate Cancer and the Impact on Margin Design. International Journal of Radiation Oncology Biology Physics, 2011, 80, 590-596.	0.8	23
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