

Marcel B Van Herk

List of Publications by Year in descending order

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Version: 2024-02-01

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	The impact of gadolinium-based MR contrast on radiotherapy planning for oropharyngeal treatment on the MR Linac. Medical Physics, 2022, 49, 510-520.	1.6	3
2	In Reply to Ebert et al.. International Journal of Radiation Oncology Biology Physics, 2022, 112, 833-834.	0.4	1
3	Radial Data Mining to Identify Density-Dose Interactions That Predict Distant Failure Following SABR. Frontiers in Oncology, 2022, 12, 838155.	1.3	2
4	Evaluating principal component analysis models for representing anatomical changes in head and neck radiotherapy. Physics and Imaging in Radiation Oncology, 2022, 22, 13-19.	1.2	2
5	Causal relation between heart irradiation and survival of lung cancer patients after radiotherapy. Radiotherapy and Oncology, 2022, 172, 126-133.	0.3	7
6	Image-based data mining applies to data collected from children. Physica Medica, 2022, 99, 31-43.	0.4	4
7	The impact of an educational tool in cervix image registration across three imaging modalities. British Journal of Radiology, 2022, 95, .	1.0	0
8	Automated gross tumor volume contour generation for large-scale analysis of early-stage lung cancer patients planned with 4D-CT. Medical Physics, 2021, 48, 724-732.	1.6	4
9	Novel methodology to assess the effect of contouring variation on treatment outcome. Medical Physics, 2021, 48, 3234-3242.	1.6	5
10	Challenges in the target volume definition of lung cancer radiotherapy. Translational Lung Cancer Research, 2021, 10, 1983-1998.	1.3	11
11	Optimising use of 4D-CT phase information for radiomics analysis in lung cancer patients treated with stereotactic body radiotherapy. Physics in Medicine and Biology, 2021, 66, 115012.	1.6	8
12	An evaluation of MR based deep learning auto-contouring for planning head and neck radiotherapy. Radiotherapy and Oncology, 2021, 158, 112-117.	0.3	15
13	MRI and CBCT for lymph node identification and registration in patients with NSCLC undergoing radical radiotherapy. Radiotherapy and Oncology, 2021, 159, 112-118.	0.3	7
14	Flogging a Dead Salmon? Reduced Dose Posterior to Prostate Correlates With Increased PSA Progression in Voxel-Based Analysis of 3 Randomized Phase 3 Trials. International Journal of Radiation Oncology Biology Physics, 2021, 110, 696-699.	0.4	12
15	Technical Note: Four-dimensional deformable digital phantom for MRI sequence development. Medical Physics, 2021, 48, 5406-5413.	1.6	4
16	Low dose cone beam CT for paediatric image-guided radiotherapy: Image quality and practical recommendations. Radiotherapy and Oncology, 2021, 163, 68-75.	0.3	6
17	Early prediction of tumour-response to radiotherapy in NSCLC patients. Physics in Medicine and Biology, 2021, 66, 225002.	1.6	3
18	Learning healthcare systems and rapid learning in radiation oncology: Where are we and where are we going?. Radiotherapy and Oncology, 2021, 164, 183-195.	0.3	9

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19	Magnetic resonanceâ€­guided radiation therapy: A review. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2020, 64, 163-177.	0.9	104
20	Is tumour sphericity an important prognostic factor in patients with lung cancer?. <i>Radiotherapy and Oncology</i> , 2020, 143, 73-80.	0.3	18
21	Retrospective Analyses of Registry Data for Technical Radiation Oncology Questions: Apples Versus Pears or Solid Evidence?. <i>Journal of Thoracic Oncology</i> , 2020, 15, 15-17.	0.5	3
22	The impact of baseline shifts towards the heart after image guidance on survival in lung SABR patients. <i>Radiotherapy and Oncology</i> , 2020, 152, 183-188.	0.3	12
23	Inter-fraction robustness of intensity-modulated proton therapy in the post-operative treatment of oropharyngeal and oral cavity squamous cell carcinomas. <i>British Journal of Radiology</i> , 2020, 93, 20190638.	1.0	12
24	Influence of heterogeneous media on Very High Energy Electron (VHEE) dose penetration and a Monte Carlo-based comparison with existing radiotherapy modalities. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020, 482, 70-81.	0.6	16
25	Dose surface maps of the heart can identify regions associated with worse survival for lung cancer patients treated with radiotherapy. <i>Physics and Imaging in Radiation Oncology</i> , 2020, 15, 46-51.	1.2	19
26	Predictive value of vascular calcification identified in 4D planning CT of lung cancer patients treated with stereotactic body radiation therapy. <i>Physica Medica</i> , 2020, 78, 173-178.	0.4	5
27	Cardiac sub-volume targeting demonstrates regional radiosensitivity in the mouse heart. <i>Radiotherapy and Oncology</i> , 2020, 152, 216-221.	0.3	26
28	Three-dimensional (3D) magnetic resonance volume assessment and loco-regional failure in anal cancer: early evaluation case-control study. <i>BMC Cancer</i> , 2020, 20, 1165.	1.1	1
29	Image Based Data Mining Using Per-voxel Cox Regression. <i>Frontiers in Oncology</i> , 2020, 10, 1178.	1.3	15
30	Cardiovascular mortality and morbidity following radical radiotherapy for lung cancer: Is cardiovascular death under-reported?. <i>Lung Cancer</i> , 2020, 146, 1-5.	0.9	16
31	Impact of small residual setup errors after image guidance on heart dose and survival in non-small cell lung cancer treated with curative-intent radiotherapy. <i>Radiotherapy and Oncology</i> , 2020, 152, 177-182.	0.3	9
32	Image guidance in radiation therapy for better cure of cancer. <i>Molecular Oncology</i> , 2020, 14, 1470-1491.	2.1	63
33	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
34	Accurate MR Image Registration to Anatomical Reference Space for Diffuse Glioma. <i>Frontiers in Neuroscience</i> , 2020, 14, 585.	1.4	25
35	Comparison of radiographer interobserver image registration variability using cone beam CT and MR for cervix radiotherapy. <i>British Journal of Radiology</i> , 2020, 93, 20200169.	1.0	6
36	Characterizing local dose perturbations due to gas cavities in magnetic resonanceâ€­guided radiotherapy. <i>Medical Physics</i> , 2020, 47, 2484-2494.	1.6	3

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37	Radiotherapy-Related Lymphopenia Affects Overall Survival in Patients With Lung Cancer. <i>Journal of Thoracic Oncology</i> , 2020, 15, 1624-1635.	0.5	89
38	Protecting the Heart: A Practical Approach to Account for the Full Extent of Heart Motion in Radiation Therapy Planning. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 108, 1082-1090.	0.4	10
39	En-face optical coherence tomography for the detection of cancer in prostatectomy specimens: Quantitative analysis in 20 patients. <i>Journal of Biophotonics</i> , 2020, 13, e201960105.	1.1	0
40	Identification of patterns of tumour change measured on CBCT images in NSCLC patients during radiotherapy. <i>Physics in Medicine and Biology</i> , 2020, 65, 215001.	1.6	3
41	New approaches for effective and safe pelvic radiotherapy in high-risk prostate cancer. <i>Nature Reviews Urology</i> , 2019, 16, 523-538.	1.9	21
42	In Regard to Zhang et al. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 104, 1179-1180.	0.4	6
43	Assessing localized dosimetric effects due to unplanned gas cavities during pelvic MR-guided radiotherapy using Monte Carlo simulations. <i>Medical Physics</i> , 2019, 46, 5807-5815.	1.6	13
44	Evaluation of acute esophageal radiation-induced damage using magnetic resonance imaging: a feasibility study in mice. <i>Radiation Oncology</i> , 2019, 14, 188.	1.2	6
45	Is reducing irradiated margins key to improving outcomes for radiotherapy?. <i>Lancet Oncology</i> , The, 2019, 20, 1208-1210.	5.1	2
46	Voxelwise statistical methods to localize practice variation in brain tumor surgery. <i>PLoS ONE</i> , 2019, 14, e0222939.	1.1	5
47	FAst Segmentation Through SURface Fairing (FASTSURF): A novel semi-automatic hippocampus segmentation method. <i>PLoS ONE</i> , 2019, 14, e0210641.	1.1	8
48	Evolutionary Machine Learning for Multi-Objective Class Solutions in Medical Deformable Image Registration. <i>Algorithms</i> , 2019, 12, 99.	1.2	5
49	Optical coherence tomography to detect acute esophageal radiation-induced damage in mice: A validation study. <i>Journal of Biophotonics</i> , 2019, 12, e201800440.	1.1	5
50	Quantitative evaluation of 4D Cone beam CT scans with reduced scan time in lung cancer patients. <i>Radiation Therapy and Oncology</i> , 2019, 136, 64-70.	0.3	10
51	Influence of tumour laterality on patient survival in non-small cell lung cancer after radiotherapy. <i>Radiation Therapy and Oncology</i> , 2019, 137, 71-76.	0.3	9
52	Reduced inter-observer and intra-observer delineation variation in esophageal cancer radiotherapy by use of fiducial markers. <i>Acta Oncologica</i> , 2019, 58, 943-950.	0.8	18
53	Post-treatment lymphocytopenia, integral body dose and overall survival in lung cancer patients treated with radical radiotherapy. <i>Radiation Therapy and Oncology</i> , 2019, 135, 115-119.	0.3	42
54	The advanced radiotherapy network (ART-NET) UK lung stereotactic ablative radiotherapy survey: national provision and a focus on image guidance. <i>British Journal of Radiology</i> , 2019, 92, 20180988.	1.0	9

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55	One-to-one registration of face optical coherence tomography attenuation coefficients with histology of a prostatectomy specimen. <i>Journal of Biophotonics</i> , 2019, 12, e201800274.	1.1	10
56	The impact of training and professional collaboration on the interobserver variation of lung cancer delineations: a multi-institutional study. <i>Acta Oncologica</i> , 2019, 58, 200-208.	0.8	12
57	Use of a novel atlas for muscles of mastication to reduce inter observer variability in head and neck radiotherapy contouring. <i>Radiotherapy and Oncology</i> , 2019, 130, 56-61.	0.3	15
58	Comparison of intensity modulated radiotherapy plan optimisation methods for a 1.5 T MR-Linac. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 43-49.	0.8	6
59	Evolutionary multi-objective meta-optimization of deformation and tissue removal parameters improves the performance of deformable image registration of pre- and post-surgery images. , 2019, , .		2
60	Prospective evaluation of relationships between radiotherapy dose to masticatory apparatus and trismus. <i>Acta Oncologica</i> , 2018, 57, 1038-1042.	0.8	15
61	A method to combine target volume data from 3D and 4D planned thoracic radiotherapy patient cohorts for machine learning applications. <i>Radiotherapy and Oncology</i> , 2018, 126, 355-361.	0.3	12
62	Interobserver variability in the delineation of the primary lung cancer and lymph nodes on different four-dimensional computed tomography reconstructions. <i>Radiotherapy and Oncology</i> , 2018, 126, 325-332.	0.3	17
63	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
64	Image Guided Radiation Therapy Strategies for Pelvic Lymph Node Irradiation in High-Risk Prostate Cancer: Motion and Margins. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 100, 68-77.	0.4	23
65	Changes in prostate apparent diffusion coefficient values during radiotherapy after neoadjuvant hormones. <i>Therapeutic Advances in Urology</i> , 2018, 10, 359-364.	0.9	4
66	Robust radiotherapy planning. <i>Physics in Medicine and Biology</i> , 2018, 63, 22TR02.	1.6	156
67	[OA129] Calcifications in lung cancer patients: can they be used as surrogate for overall survival predictions?. <i>Physica Medica</i> , 2018, 52, 49.	0.4	2
68	Residual Setup Errors Towards the Heart After Image Guidance Linked With Poorer Survival in Lung Cancer Patients: Do We Need Stricter IGRT Protocols?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 434-442.	0.4	39
69	Assessing MR-linac radiotherapy robustness for anatomical changes in head and neck cancer. <i>Physics in Medicine and Biology</i> , 2018, 63, 125020.	1.6	21
70	Earliest radiological progression in glioblastoma by multidisciplinary consensus review. <i>Journal of Neuro-Oncology</i> , 2018, 139, 591-598.	1.4	4
71	Image-based Data Mining to Probe Dosimetric Correlates of Radiation-induced Trismus. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 1330-1338.	0.4	32
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	Comparison of SUVmax and SUVpeak based segmentation to determine primary lung tumour volume on FDG PET-CT correlated with pathology data. <i>Radiotherapy and Oncology</i> , 2018, 129, 227-233.	0.3	11
74	Feasibility of using optical coherence tomography to detect radiation-induced fibrosis and residual cancer extent after neoadjuvant chemo-radiation therapy: an ex vivo study. <i>Biomedical Optics Express</i> , 2018, 9, 4196.	1.5	4
75	Feasibility of using optical coherence tomography to detect acute radiation-induced esophageal damage in small animal models. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	1.4	5
76	Simplex-based navigation tool for a posteriori selection of the preferred deformable image registration outcome from a set of trade-off solutions obtained with multiobjective optimization for the case of breast MRI. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	0.8	2
77	Semi-automatic hippocampus delineation algorithm using surface fairing. <i>IFMBE Proceedings</i> , 2018, , 956-959.	0.2	0
78	Ex-vivo study in nephroureterectomy specimens defining the role of 3-D upper urinary tract visualization using optical coherence tomography and endoluminal ultrasound. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	0.8	3
79	Using a contextualized sensemaking model for interaction design: A case study of tumor contouring. <i>Journal of Biomedical Informatics</i> , 2017, 65, 145-158.	2.5	12
80	The feasibility of manual parameter tuning for deformable breast MR image registration from a multi-objective optimization perspective. <i>Physics in Medicine and Biology</i> , 2017, 62, 5723-5743.	1.6	9
81	Optimal combination of anti-scatter grids and software correction for CBCT imaging. <i>Medical Physics</i> , 2017, 44, 4437-4451.	1.6	42
82	Addition of MRI for CT-based pancreatic tumor delineation: a feasibility study. <i>Acta Oncologica</i> , 2017, 56, 923-930.	0.8	23
83	A population based statistical model for daily geometric variations in the thorax. <i>Radiotherapy and Oncology</i> , 2017, 123, 99-105.	0.3	8
84	Visibility of fiducial markers used for image-guided radiation therapy on optical coherence tomography for registration with CT: An esophageal phantom study. <i>Medical Physics</i> , 2017, 44, 6570-6582.	1.6	10
85	The impact of breathing amplitude on dose homogeneity in intensity modulated proton therapy. <i>Physics and Imaging in Radiation Oncology</i> , 2017, 3, 11-16.	1.2	7
86	Beyond the margin recipe: the probability of correct target dosage and tumor control in the presence of a dose limiting structure. <i>Physics in Medicine and Biology</i> , 2017, 62, 7874-7888.	1.6	18
87	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
88	Technical Note: Investigating the impact of field size on patient selection for the 1.5T MR-Linac. <i>Medical Physics</i> , 2017, 44, 5667-5671.	1.6	23
89	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
90	Considerable interobserver variation in delineation of pancreatic cancer on 3DCT and 4DCT: a multi-institutional study. <i>Radiation Oncology</i> , 2017, 12, 58.	1.2	17

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91	Imaging biomarker roadmap for cancer studies. <i>Nature Reviews Clinical Oncology</i> , 2017, 14, 169-186.	12.5	792
92	The influence of automation on tumor contouring. <i>Cognition, Technology and Work</i> , 2017, 19, 795-808.	1.7	5
93	Regional analysis of volumes and reproducibilities of automatic and manual hippocampal segmentations. <i>PLoS ONE</i> , 2017, 12, e0166785.	1.1	14
94	A first step toward uncovering the truth about weight tuning in deformable image registration. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
95	An automated workflow for patient-specific quality control of contour propagation. <i>Physics in Medicine and Biology</i> , 2016, 61, 8577-8586.	1.6	17
96	Online 3D EPID-based dose verification: Proof of concept. <i>Medical Physics</i> , 2016, 43, 3969-3974.	1.6	49
97	Clinical introduction of image lag correction for a cone beam CT system. <i>Medical Physics</i> , 2016, 43, 1057-1064.	1.6	8
98	Impact of coronal and sagittal views on lung gross tumor volume delineation. <i>Physica Medica</i> , 2016, 32, 1082-1087.	0.4	2
99	MRI-guided prostate adaptive radiotherapy – A systematic review. <i>Radiotherapy and Oncology</i> , 2016, 119, 371-380.	0.3	124
100	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
101	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
102	Feasibility of OCT to detect radiation-induced esophageal damage in small animal models (Conference) Tj ETQq0 0 0 rgBT /Overlock 10		
103	Dynamic CT perfusion image data compression for efficient parallel processing. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 463-473.	1.6	5
104	Changes in prostate volume during neo-adjuvant hormone therapy and definitive radiotherapy.. <i>Journal of Clinical Oncology</i> , 2016, 34, e628-e628.	0.8	0
105	TU-D-202-00: Rest In Peace - ITV. <i>Medical Physics</i> , 2016, 43, 3747-3747.	1.6	0
106	Portal dosimetry in wedged beams. <i>Journal of Applied Clinical Medical Physics</i> , 2015, 16, 244-257.	0.8	2
107	Current status of 3D EPID-based in vivo dosimetry in The Netherlands Cancer Institute. <i>Journal of Physics: Conference Series</i> , 2015, 573, 012014.	0.3	12
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	Establishing implantation uncertainties for focal brachytherapy with I-125 seeds for the treatment of localized prostate cancer. <i>Acta Oncologica</i> , 2015, 54, 839-846.	0.8	13
110	Clinical evaluation of respiration-induced attenuation uncertainties in pulmonary 3D PET/CT. <i>EJNMMI Physics</i> , 2015, 2, 4.	1.3	10
111	Comment on "Multi-modality functional image guided dose escalation in the presence of uncertainties". <i>Radiotherapy and Oncology</i> , 2015, 115, 149.	0.3	0
112	Impact of daily anatomical changes on EPID-based in vivo dosimetry of VMAT treatments of head-and-neck cancer. <i>Radiotherapy and Oncology</i> , 2015, 116, 70-74.	0.3	31
113	Probabilistic evaluation of target dose deterioration in dose painting by numbers for stage II/III lung cancer. <i>Practical Radiation Oncology</i> , 2015, 5, e375-e382.	1.1	7
114	Target delineation variability and corresponding margins of peripheral early stage NSCLC treated with stereotactic body radiotherapy. <i>Radiotherapy and Oncology</i> , 2015, 114, 361-366.	0.3	31
115	Dynamic Collimator Angle Adjustments During Volumetric Modulated Arc Therapy to Account for Prostate Rotations. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 91, 1009-1016.	0.4	12
116	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
117	On the usefulness of gradient information in multi-objective deformable image registration using a B-spline-based dual-dynamic transformation model: comparison of three optimization algorithms. , 2015, , .		0
118	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
119	Diversifying Multi-Objective Gradient Techniques and their Role in Hybrid Multi-Objective Evolutionary Algorithms for Deformable Medical Image Registration. , 2015, , .		0
120	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. <i>Radiotherapy and Oncology</i> , 2015, 117, 83-90.	0.3	425
121	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
122	PlanJury: probabilistic plan evaluation revisited. <i>Journal of Physics: Conference Series</i> , 2014, 489, 012062.	0.3	2
123	Improved image quality of cone beam CT scans for radiotherapy image guidance using fiber-interspaced antiscatter grid. <i>Medical Physics</i> , 2014, 41, 061910.	1.6	25
124	Inter- and intra-fractional bladder motion during radiotherapy for bladder cancer: A comparison of full and empty bladders. <i>Radiotherapy and Oncology</i> , 2014, 113, 254-259.	0.3	35
125	4D CT amplitude binning for the generation of a time-averaged 3D mid-position CT scan. <i>Physics in Medicine and Biology</i> , 2014, 59, 5517-5529.	1.6	18
126	Clinical implementation and rapid commissioning of an EPID based in-vivo dosimetry system. <i>Physics in Medicine and Biology</i> , 2014, 59, N171-N179.	1.6	13

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127	Occupancy of serotonin transporters in the amygdala by paroxetine in association with attenuation of left amygdala activation by negative faces in major depressive disorder. <i>Psychiatry Research - Neuroimaging</i> , 2014, 221, 155-161.	0.9	17
128	Automatic detection system for multiple region of interest registration to account for posture changes in head and neck radiotherapy. <i>Physics in Medicine and Biology</i> , 2014, 59, 2005-2021.	1.6	5
129	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
130	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
131	In vivo portal dosimetry for head-and-neck VMAT and lung IMRT: Linking \hat{D}_3 -analysis with differences in dose-volume histograms of the PTV. <i>Radiotherapy and Oncology</i> , 2014, 112, 396-401.	0.3	23
132	Integration of a clinical trial database with a PACS. <i>Journal of Physics: Conference Series</i> , 2014, 489, 012099.	0.3	4
133	Multiple comparisons permutation test for image based data mining in radiotherapy. <i>Radiation Oncology</i> , 2013, 8, 293.	1.2	67
134	Adaptive radiotherapy with an average anatomy model: Evaluation and quantification of residual deformations in head and neck cancer patients. <i>Radiotherapy and Oncology</i> , 2013, 109, 463-468.	0.3	31
135	Registration accuracy and image quality of time averaged mid-position CT scans for liver SBRT. <i>Radiotherapy and Oncology</i> , 2013, 109, 404-408.	0.3	30
136	An in silico comparison between margin-based and probabilistic target-planning approaches in head and neck cancer patients. <i>Radiotherapy and Oncology</i> , 2013, 109, 430-436.	0.3	14
137	Hybrid Registration of Prostate and Seminal Vesicles for Image Guided Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 86, 177-182.	0.4	16
138	PET Motion Compensation for Radiation Therapy Using a CT-Based Mid-Position Motion Model: Methodology and Clinical Evaluation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 87, 394-400.	0.4	22
139	Motion compensated digital tomosynthesis. <i>Radiotherapy and Oncology</i> , 2013, 109, 398-403.	0.3	14
140	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. <i>Radiotherapy and Oncology</i> , 2013, 107, 134-139.	0.3	24
141	Automatic <i>in vivo</i> portal dosimetry of all treatments. <i>Physics in Medicine and Biology</i> , 2013, 58, 8253-8264.	1.6	57
142	3D EPID-based <i>in vivo</i> dosimetry for IMRT and VMAT. <i>Journal of Physics: Conference Series</i> , 2013, 444, 012011.	0.3	17
143	Probabilistic objective functions for margin-less IMRT planning. <i>Physics in Medicine and Biology</i> , 2013, 58, 3563-3580.	1.6	38
144	Fusion of planning CT and cystoscopy images for bladder tumor delineation: A feasibility study. <i>Medical Physics</i> , 2013, 40, 051713.	1.6	5

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145	TU-E-108-08: EPID-Based in Vivo Dosimetry: The Next Step in Patient-Specific QA. <i>Medical Physics</i> , 2013, 40, 445-445.	1.6	0
146	Validation of deformable registration in head and neck cancer using analysis of variance. <i>Medical Physics</i> , 2012, 39, 6879-6884.	1.6	20
147	Semiautomatic bladder segmentation on CBCT using a population-based model for multiple-plan ART of bladder cancer. <i>Physics in Medicine and Biology</i> , 2012, 57, N525-N541.	1.6	6
148	Automatic bladder segmentation on CBCT for multiple plan ART of bladder cancer using a patient-specific bladder model. <i>Physics in Medicine and Biology</i> , 2012, 57, 3945-3962.	1.6	25
149	Influence of the number of elongated fiducial markers on the localization accuracy of the prostate. <i>Physics in Medicine and Biology</i> , 2012, 57, 6211-6226.	1.6	11
150	In-situ imaging of articular cartilage of the first carpometacarpal joint using co-registered optical coherence tomography and computed tomography. <i>Journal of Biomedical Optics</i> , 2012, 17, 060501.	1.4	17
151	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
152	Evaluation of Tumor Shape Variability in Head-and-Neck Cancer Patients Over the Course of Radiation Therapy Using Implanted Gold Markers. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 84, e201-e207.	0.4	18
153	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
154	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
155	A practical technique to avoid the hippocampus in prophylactic cranial irradiation for lung cancer. <i>Radiotherapy and Oncology</i> , 2012, 102, 225-227.	0.3	23
156	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
157	Adaptive radiotherapy for long course neo-adjuvant treatment of rectal cancer. <i>Radiotherapy and Oncology</i> , 2012, 103, 353-359.	0.3	30
158	Adaptive margin radiotherapy for patients with prostate carcinoma: What's the benefit?. <i>Radiotherapy and Oncology</i> , 2012, 105, 203-206.	0.3	5
159	Clinical Investigations Contrast-enhanced ultrasound as support for prostate brachytherapy treatment planning. <i>Journal of Contemporary Brachytherapy</i> , 2012, 2, 69-74.	0.4	7
160	SU-E-T-346: Clinical Results of 3D in Vivo Dose Verification of VMAT. <i>Medical Physics</i> , 2012, 39, 3783-3783.	1.6	0
161	Finite element based bladder modeling for image-guided radiotherapy of bladder cancer. <i>Medical Physics</i> , 2011, 38, 142-150.	1.6	34
162	A voxel-based finite element model for the prediction of bladder deformation. <i>Medical Physics</i> , 2011, 39, 55-65.	1.6	16

#	ARTICLE	IF	CITATIONS
163	Comparative study of respiratory motion correction techniques in cone-beam computed tomography. <i>Radiotherapy and Oncology</i> , 2011, 100, 356-359.	0.3	39
164	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
165	Dealing with geometric uncertainties in dose painting by numbers: Introducing the \hat{V}_H This work was supported by Dutch Cancer Society grant 2007-3895.1. <i>Radiotherapy and Oncology</i> , 2011, 100, 402-406.	0.3	201
166	Position Verification for the Prostate: Effect on Rectal Wall Dose. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 80, 462-468.	0.4	7
167	In Response to Dr. Jereczek-Fossa and Colleagues. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 79, 956-957.	0.4	1
168	Residual Seminal Vesicle Displacement in Marker-Based Image-Guided Radiotherapy for Prostate Cancer and the Impact on Margin Design. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 80, 590-596.	0.4	23
169	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
170	Simplifying EPID dosimetry for IMRT treatment verification. <i>Medical Physics</i> , 2011, 38, 983-992.	1.6	31
171	<i>In aqua vivo</i> EPID dosimetry. <i>Medical Physics</i> , 2011, 39, 367-377.	1.6	63
172	Serotonin and dopamine transporters in relation to neuropsychological functioning, personality traits and mood in young adult healthy subjects. <i>Psychological Medicine</i> , 2011, 41, 419-429.	2.7	28
173	Semi-automatic delineation using weighted CT-MRI registered images for radiotherapy of nasopharyngeal cancer. <i>Medical Physics</i> , 2011, 38, 4662-4666.	1.6	21
174	2D AND 3D dose verification at The Netherlands Cancer Institute "Antoni van Leeuwenhoek Hospital using EPIDs. <i>Journal of Physics: Conference Series</i> , 2010, 250, 012020.	0.3	8
175	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
176	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
177	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
178	Decreased 3D observer variation with matched CT-MRI, for target delineation in Nasopharynx cancer. <i>Radiation Oncology</i> , 2010, 5, 21.	1.2	67
179	Catching errors with <i>in vivo</i> EPID dosimetry. <i>Medical Physics</i> , 2010, 37, 2638-2644.	1.6	178
180	Correction strategies to manage deformations in head-and-neck radiotherapy. <i>Radiotherapy and Oncology</i> , 2010, 94, 199-205.	0.3	40

#	ARTICLE	IF	CITATIONS
181	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
182	3D Dosimetric verification of volumetric-modulated arc therapy by portal dosimetry. <i>Radiotherapy and Oncology</i> , 2010, 94, 181-187.	0.3	156
183	Image Registration Using Chamfer Matching. , 2009, , 591-603.		2
184	Detection of <i>In Vivo</i> Dynamic 3-D Motion Patterns in the Wrist Joint. <i>IEEE Transactions on Biomedical Engineering</i> , 2009, 56, 1236-1244.	2.5	29
185	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
186	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
187	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
188	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
189	On-the-Fly Motion-compensated Cone-beam CT using a Motion Model Updated via Navigator Channels. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 75, S22.	0.4	0
190	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
191	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
192	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
193	^{99m} Tc 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
194	Tumor Position and Shape Variability in Head and Neck Cancer Patients over the Course of Radiotherapy Assessed with Implanted Gold Markers. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 72, S149-S150.	0.4	0
195	Relation between Dose Outside the Prostate and Failure Free Survival in the Dutch Prostate Cancer Trial. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 72, S65.	0.4	1
196	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
197	Variability of Four-Dimensional Computed Tomography Patient Models. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 70, 590-598.	0.4	226
198	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

#	ARTICLE	IF	CITATIONS
199	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
200	Observer Variation in Delineation of Prostate and Seminal Vesicles using CT versus Matched MRI-CT, a 3-D Analysis. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 72, S331.	0.4	2
201	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
202	Will IGRT live up to its promise?. <i>Acta OncolÃ³gica</i> , 2008, 47, 1186-1187.	0.8	23
203	Reconstruction of a time-averaged midposition CT scan for radiotherapy planning of lung cancer	1.6	128
204	^{99m} 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
205	On-the-Fly Motion-Compensated Cone-Beam CT Using an a Priori Motion Model. <i>Lecture Notes in Computer Science</i> , 2008, 11, 729-736.	1.0	13
206	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
207	Three-dimensional heart dose reconstruction to estimate normal tissue complication probability after breast irradiation using portal dosimetry. <i>Medical Physics</i> , 2007, 34, 1354-1363.	1.6	18
208	Retrospective attenuation correction of PET data for radiotherapy planning using a free breathing CT. <i>Radiotherapy and Oncology</i> , 2007, 83, 42-48.	0.3	9
209	A fast algorithm for gamma evaluation in 3D. <i>Medical Physics</i> , 2007, 34, 1647-1654.	1.6	146
210	^{99m} Tc hynic-RH-annexin V scintigraphy for in vivo imaging of apoptosis in patients with advanced head and neck cancer treated with concurrent cisplatin and radiotherapy. <i>Radiotherapy and Oncology</i> , 2007, 82, S34.	0.3	0
211	4D Radiotherapy. <i>Clinical Oncology</i> , 2007, 19, S10.	0.6	0
212	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
213	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
214	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
215	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
216	Anatomical Changes During Radiotherapy of Lung Cancer Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 69, S508-S509.	0.4	9

#	ARTICLE	IF	CITATIONS
217	3-Dimensional Observer Variation in International Guideline Based Delineation of Neck Lymph Node Levels. International Journal of Radiation Oncology Biology Physics, 2007, 69, S205.	0.4	1
218	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.	0.4	40
219	Dental students' attitude towards anti-smoking programmes: a study in Flanders, Belgium. European Journal of Dental Education, 2007, 11, 177-183.	1.0	33
220	Different Styles of Image-Guided Radiotherapy. Seminars in Radiation Oncology, 2007, 17, 258-267.	1.0	133
221	MO-100: Planning Target Volume Determination. Medical Physics, 2007, 34, 2530-2530.	1.6	0
222	WE-DAUD-06: In Vivo EPID Dosimetry for Large Scale Clinical IMRT Verification. Medical Physics, 2007, 34, 2601-2601.	1.6	0
223	WE-CABRA-03: TCP Model Parameters " Extracting These From Clinical Data on "Movable" Patients. Medical Physics, 2007, 34, 2594-2595.	1.6	0
224	B5-05: Frameless stereotactic body radiotherapy using four dimensional cone beam CT guidance. Journal of Thoracic Oncology, 2007, 2, S348-S349.	0.5	1
225	Accurate two-dimensional IMRT verification using a back-projection EPID dosimetry method. Medical Physics, 2006, 33, 259-273.	1.6	185
226	Anatomy changes in radiotherapy detected using portal imaging. Radiotherapy and Oncology, 2006, 79, 211-217.	0.3	35
227	Physics, 2006, 33, 3874-3900.	1.6	1,829
228	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
229	Tumor motion and deformation during external radiotherapy of bladder cancer. International Journal of Radiation Oncology Biology Physics, 2006, 64, 1551-1558.	0.4	76
230	In response to Dr. Rodriguez de Dios. International Journal of Radiation Oncology Biology Physics, 2006, 65, 1276-1277.	0.4	1
231	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.	0.4	63
232	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.	0.4	72
233	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.	0.4	242
234	137. International Journal of Radiation Oncology Biology Physics, 2006, 66, S76-S77.	0.4	7

#	ARTICLE	IF	CITATIONS
235	2282. International Journal of Radiation Oncology Biology Physics, 2006, 66, S367.	0.4	0
236	138. International Journal of Radiation Oncology Biology Physics, 2006, 66, S77.	0.4	0
237	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.	3.3	27
238	Clinical experience with EPID dosimetry for prostate IMRT pre-treatment dose verification. Medical Physics, 2006, 33, 3921-3930.	1.6	71
239	Comparison of ghosting effects for three commercial a-Si EPIDs. Medical Physics, 2006, 33, 2448-2451.	1.6	59
240	TU-C-ValB-02: Patient Specific Differences in Setup Error Variability and Its Effect On Treatment Margins in Fractionated Radiotherapy. Medical Physics, 2006, 33, 2187-2187.	1.6	2
241	Physics, 2006, 33, 3874-3900.	1.6	43
242	Imaging for IMRT. , 2006, , 19-30.		0
243	SU-DD-A2-04: A Simple Method to Reconstruct a Representative Mid-Ventilation CT Scan From 4D Respiration Correlated CT Scans for Radiotherapy Treatment Planning of Lung Cancer Patients. Medical Physics, 2006, 33, 1987-1987.	1.6	0
244	TU-D-ValB-02: KV Tomographic Image Guided Radiotherapy. Medical Physics, 2006, 33, 2197-2198.	1.6	0
245	SU-FF-J-68: First Clinical Results of An Adaptive Off-Line Radiation Scheme Using Cone-Beam CT Scans for Treatment of Prostate Cancer. Medical Physics, 2006, 33, 2036-2036.	1.6	0
246	TU-C-ValB-04: Margin-Less Prostate IMRT Plans, Directly Optimized for TCP and NTCP Including Geometric Uncertainties. Medical Physics, 2006, 33, 2188-2188.	1.6	0
247	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
248	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
249	An Off-Line 4D Cone Beam CT Based Correction Protocol for Lung Tumor Motion. International Journal of Radiation Oncology Biology Physics, 2005, 63, S389-S390.	0.4	8
250	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.	0.4	182
251	Target Definition in Prostate, Head, and Neck. Seminars in Radiation Oncology, 2005, 15, 136-145.	1.0	184
252	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.	1.6	113

#	ARTICLE	IF	CITATIONS
253	The applicability of simultaneous TRUS-CT imaging for the evaluation of prostate seed implants. Medical Physics, 2005, 32, 2262-2270.	1.6	21
254	Reproducibility of the bladder shape and bladder shape changes during filling. Medical Physics, 2005, 32, 2590-2597.	1.6	62
255	Respiratory correlated cone beam CT. Medical Physics, 2005, 32, 1176-1186.	1.6	579
256	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
257	The sensitivity of dose distributions for organ motion and set-up uncertainties in prostate IMRT. Radiotherapy and Oncology, 2005, 76, 18-26.	0.3	52
258	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.	0.3	145
259	O-151 Four dimensional cone beam CT for verification of radiotherapy for lung cancer. Lung Cancer, 2005, 49, S52.	0.9	1
260	P-363 Impact of anatomical location of primary tumor in lung on value of CT-PET co-registration for delineation. Lung Cancer, 2005, 49, S211.	0.9	0
261	P-741 Reduction of observer variation by matched CT-PET for lung cancer delineation. Lung Cancer, 2005, 49, S313-S314.	0.9	0
262	8 Kilovoltage cone beam CT guided radiotherapy. Radiotherapy and Oncology, 2005, 76, S3.	0.3	1
263	4 Amorphous silicon flat panel imaging devices for pretreatment verification and in vivo dosimetry of IMRT. Radiotherapy and Oncology, 2005, 76, S15.	0.3	0
264	109 Improved procedure for automatic prostate localization on cone-beam CT scans. Radiotherapy and Oncology, 2005, 76, S58-S59.	0.3	0
265	126 Using EPID pre-treatment dosimetry to solve a clinical problem. Radiotherapy and Oncology, 2005, 76, S65.	0.3	0
266	134 Varian Physics Award Kilo-voltage cone-beam CT for image-guided radiation therapy. Radiotherapy and Oncology, 2005, 76, S70.	0.3	0
267	138 Online corrections for radiotherapy of bladder cancer. Radiotherapy and Oncology, 2005, 76, S72.	0.3	0
268	167 In room measurement of 3D motion in lung. Radiotherapy and Oncology, 2005, 76, S85.	0.3	0
269	208 Margin-less prostate IMRT plans, directly optimised for TCP including geometrical uncertainties. Radiotherapy and Oncology, 2005, 76, S101-S102.	0.3	0
270	213 A simple method to correctly account for rotational errors in radiotherapy. Radiotherapy and Oncology, 2005, 76, S103-S104.	0.3	2

#	ARTICLE	IF	CITATIONS
271	236 Impact of geometrical uncertainties on 3D-CRT and IMRT dose distributions for lung cancer treatment. Radiotherapy and Oncology, 2005, 76, S113.	0.3	0
272	272 The value of respiration corrected PET for determination of the standard uptake value of FDG in lung tumors. Radiotherapy and Oncology, 2005, 76, S126-S127.	0.3	0
273	508 A simple method to reconstruct a representative CT scan from a 4D CT data set for use in treatment planning of lung cancer. Radiotherapy and Oncology, 2005, 76, S217.	0.3	0
274	513 An adaptive off-line radiation scheme for the treatment of prostate cancer. Radiotherapy and Oncology, 2005, 76, S219.	0.3	1
275	TU-C-T-6E-06: First Clinical Experience with Pre-Treatment and in Vivo IMRT Verification Using EPID Dosimetry. Medical Physics, 2005, 32, 2090-2090.	1.6	8
276	WE-E-J-6C-05: Variability of Four Dimensional CT Patient Models. Medical Physics, 2005, 32, 2143-2144.	1.6	0
277	SU-FF-J-74: Tumor Motion and Tumor Shape Changes During Radiotherapy of Bladder Cancer. Medical Physics, 2005, 32, 1936-1937.	1.6	0
278	The long-term stability of amorphous silicon flat panel imaging devices for dosimetry purposes. Medical Physics, 2004, 31, 2989-2995.	1.6	81
279	The effects of target size and tissue density on the minimum margin required for random errors. Medical Physics, 2004, 31, 3068-3079.	1.6	53
280	The stability of liquid-filled matrix ionization chamber electronic portal imaging devices for dosimetry purposes. Medical Physics, 2004, 31, 819-827.	1.6	22
281	Errors and margins in radiotherapy. Seminars in Radiation Oncology, 2004, 14, 52-64.	1.0	1,121
282	Impact of knee support and shape of tabletop on rectum and prostate position. International Journal of Radiation Oncology Biology Physics, 2004, 60, 1364-1372.	0.4	22
283	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.	0.4	56
284	Leaf trajectory verification during dynamic intensity modulated radiotherapy using an amorphous silicon flat panel imager. Medical Physics, 2004, 31, 389-395.	1.6	26
285	A model to predict bladder shapes from changes in bladder and rectal filling. Medical Physics, 2004, 31, 1415-1423.	1.6	40
286	Quantification of local rectal wall displacements by virtual rectum unfolding. Radiotherapy and Oncology, 2004, 70, 21-30.	0.3	71
287	Recalculation of dose changes due to breathing movement assessed from respiratory-correlated cone beam CT. International Journal of Radiation Oncology Biology Physics, 2004, 60, S289-S289.	0.4	1
288	First clinical experience with cone-beam CT guided radiation therapy; evaluation of dose and geometric accuracy. International Journal of Radiation Oncology Biology Physics, 2004, 60, S196-S196.	0.4	0

#	ARTICLE	IF	CITATIONS
289	Observer variation in delineation of nasopharyngeal carcinoma for radiotherapy, a 3-D analysis. International Journal of Radiation Oncology Biology Physics, 2004, 60, S160-S161.	0.4	4
290	Biologic and physical fractionation effects of random geometric errors. International Journal of Radiation Oncology Biology Physics, 2003, 57, 1460-1471.	0.4	288
291	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.	0.4	95
292	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.	0.3	208
293	Feasibility of geometrical verification of patient set-up using body contours and computed tomography data. Radiotherapy and Oncology, 2003, 66, 225-233.	0.3	4
294	Application of video imaging for improvement of patient set-up. Radiotherapy and Oncology, 2003, 68, 277-284.	0.3	26
295	Dose-response and ghosting effects of an amorphous silicon electronic portal imaging device. Medical Physics, 2003, 31, 285-295.	1.6	146
296	Evaluation of cost functions for gray value matching of two-dimensional images in radiotherapy. Medical Physics, 2003, 30, 778-784.	1.6	20
297	Three-dimensional dose reconstruction of breast cancer treatment using portal imaging. Medical Physics, 2003, 30, 2376-2389.	1.6	60
298	Focal spot motion of linear accelerators and its effect on portal image analysis. Medical Physics, 2003, 30, 1067-1075.	1.6	21
299	The theoretical benefit of beam fringe compensation and field size reduction for iso-normal tissue complication probability dose escalation in radiotherapy of lung cancer. Medical Physics, 2003, 30, 1086-1095.	1.6	16
300	A method for geometrical verification of dynamic intensity modulated radiotherapy using a scanning electronic portal imaging device. Medical Physics, 2002, 29, 1071-1079.	1.6	18
301	The effect of set-up uncertainties, contour changes, and tissue inhomogeneities on target dose-volume histograms. Medical Physics, 2002, 29, 2305-2318.	1.6	51
302	When should systematic patient positioning errors in radiotherapy be corrected?. Physics in Medicine and Biology, 2002, 47, N297-N302.	1.6	72
303	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
304	Margins for geometric uncertainty around organs at risk in radiotherapy. Radiotherapy and Oncology, 2002, 62, 299-307.	0.3	156
305	Irradiation of paranasal sinus tumors, a delineation and dose comparison study. International Journal of Radiation Oncology Biology Physics, 2002, 52, 120-127.	0.4	46
306	Inclusion of geometric uncertainties in treatment plan evaluation. International Journal of Radiation Oncology Biology Physics, 2002, 52, 1407-1422.	0.4	474

#	ARTICLE	IF	CITATIONS
307	A model to simulate day-to-day variations in rectum shape. International Journal of Radiation Oncology Biology Physics, 2002, 54, 615-625.	0.4	56
308	Assessment of prostate and seminal vesicles motion/deformation using sagittal cinemri for margin determination in on-line image-guided radiation therapy (IGRT) for prostate cancer. International Journal of Radiation Oncology Biology Physics, 2002, 54, 182-183.	0.4	4
309	Margins for translational and rotational uncertainties: a probability-based approach. International Journal of Radiation Oncology Biology Physics, 2002, 53, 464-474.	0.4	203
310	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
311	REPLY TO LETTER TO CHIEN ET AL.. Radiotherapy and Oncology, 2001, 58, 220.	0.3	0
312	CLINICAL TARGET VOLUME OF HIGH-GRADE GLIOMA. Radiotherapy and Oncology, 2001, 58, 219.	0.3	0
313	Clinical use of electronic portal imaging: Report of AAPM Radiation Therapy Committee Task Group 58. Medical Physics, 2001, 28, 712-737.	1.6	241
314	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
315	3D tumor motion in lung due to breathing and heartbeat, measured during real-time tumor tracking radiation therapy. International Journal of Radiation Oncology Biology Physics, 2001, 51, 24.	0.4	6
316	Portal imaging to assess setup errors, tumor motion and tumor shrinkage during conformal radiotherapy for non-small cell lung cancer. International Journal of Radiation Oncology Biology Physics, 2001, 51, 207-208.	0.4	2
317	Accurate measurement of the dynamic response of a scanning electronic portal imaging device. Medical Physics, 2001, 28, 310-316.	1.6	11
318	Image Guided Radiotherapy of the Prostate. Lecture Notes in Computer Science, 2001, , 1075-1080.	1.0	4
319	Evaluation of Cost Functions for Gray Value Matching of 2D Images in Radiotherapy. Lecture Notes in Computer Science, 2001, , 1354-1355.	1.0	2
320	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
321	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
322	A tool for evaluation the robustness of clinical treatment plans. International Journal of Radiation Oncology Biology Physics, 2000, 48, 192.	0.4	0
323	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.	0.4	102
324	The accuracy of image registration for the brain and the nasopharynx using external anatomical landmarks. Physics in Medicine and Biology, 2000, 45, 2403-2416.	1.6	14

#	ARTICLE	IF	CITATIONS
325	Leaf position verification during dynamic beam delivery: A comparison of three applications using electronic portal imaging. <i>Medical Physics</i> , 2000, 27, 1601-1609.	1.6	38
326	The width of margins in radiotherapy treatment plans. <i>Physics in Medicine and Biology</i> , 2000, 45, 3331-3342.	1.6	265
327	Target volumes in radiotherapy for high-grade malignant glioma of the brain. <i>Radiotherapy and Oncology</i> , 2000, 56, 151-156.	0.3	114
328	A delineation system for N modalities " software aspects. , 2000, , 73-75.		10
329	The design and implementation of a multi-center volumetric and dosimetric database. , 2000, , 82-84.		4
330	Image Registration Using Chamfer Matching. , 2000, , 515-527.		6
331	Defining margins for systematic rotations and translations: A probability based geometrical approach. , 2000, , 551-552.		0
332	Progress in portal imaging techniques. , 2000, , 266-268.		0
333	A general methodology for three-dimensional analysis of variation in target volume delineation. <i>Medical Physics</i> , 1999, 26, 931-940.	1.6	86
334	Definition of the prostate in CT and MRI: a multi-observer study. <i>International Journal of Radiation Oncology Biology Physics</i> , 1999, 43, 57-66.	0.4	524
335	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
336	Comparison of prostate cancer treatment in two institutions: a quality control study. <i>International Journal of Radiation Oncology Biology Physics</i> , 1999, 45, 1055-1062.	0.4	38
337	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
338	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
339	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
340	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
341	Registration of MR and SPECT without using external fiducial markers. <i>Physics in Medicine and Biology</i> , 1998, 43, 1255-1269.	1.6	17
342	Effect of Image Artifacts, Organ Motion, and Poor Segmentation on the Reliability and Accuracy of Three-Dimensional Chamfer Matching. <i>Computer Aided Surgery</i> , 1997, 2, 346-355.	1.8	15

#	ARTICLE	IF	CITATIONS
343	A convolution model to convert transmission dose images to exit dose distributions. <i>Medical Physics</i> , 1997, 24, 189-199.	1.6	61
344	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
345	Demonstration of a reduction in muscarinic receptor binding in early Alzheimer's disease using iodine-123 dextimide single-photon emission tomography. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 1997, 24, 602-608.	2.2	34
346	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
347	Demonstration of a reduction in muscarinic receptor binding in early Alzheimer's disease using iodine-123 dextimide single-photon emission tomography. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 1997, 24, 602-608.	3.3	1
348	Target margins for random geometrical treatment uncertainties in conformal radiotherapy. <i>Medical Physics</i> , 1996, 23, 1537-1545.	1.6	114
349	The computation of MR image distortions caused by tissue susceptibility using the boundary element method. <i>IEEE Transactions on Medical Imaging</i> , 1996, 15, 620-627.	5.4	26
350	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
351	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
352	1012 Quantification of variation in organ position and volume during conformal radiotherapy of the prostate. <i>International Journal of Radiation Oncology Biology Physics</i> , 1996, 36, 250.	0.4	1
353	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
354	The dose response relationship of a liquid-filled electronic portal imaging device. <i>Medical Physics</i> , 1996, 23, 1601-1611.	1.6	50
355	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
356	Quantification of organ motion during conformal radiotherapy of the prostate by three dimensional image registration. <i>International Journal of Radiation Oncology Biology Physics</i> , 1995, 33, 1311-1320.	0.4	481
357	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
358	Optimization of automatic portal image analysis. <i>Medical Physics</i> , 1995, 22, 1089-1099.	1.6	44
359	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
360	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

#	ARTICLE	IF	CITATIONS
361	Image fusion for stereotactic radiotherapy and radiosurgery treatment planning. International Journal of Radiation Oncology Biology Physics, 1994, 28, 1229-1234.	0.4	156
362	Application of three-dimensional image correlation for quantification of prostate motion. International Journal of Radiation Oncology Biology Physics, 1994, 30, 173-174.	0.4	6
363	Clinical evaluation of automatic portal image analysis for lateral and ap pelvic fields. International Journal of Radiation Oncology Biology Physics, 1994, 30, 228.	0.4	1
364	Verification of lung attenuator positioning before total body irradiation using an electronic portal imaging device. International Journal of Radiation Oncology Biology Physics, 1993, 27, 449-454.	0.4	14
365	An algorithm for automatic analysis of portal images: clinical evaluation for prostate treatments. Radiotherapy and Oncology, 1993, 29, 261-268.	0.3	37
366	A verification procedure to improve patient set-up accuracy using portal images. Radiotherapy and Oncology, 1993, 29, 253-260.	0.3	241
367	Role of electronic portal imaging in high dose/high precision radiotherapy. Radiotherapy and Oncology, 1993, 29, 269-270.	0.3	10
368	A comprehensive system for the analysis of portal images. Radiotherapy and Oncology, 1993, 29, 221-229.	0.3	39
369	Automatic on-line inspection of patient setup in radiation therapy using digital portal images. Medical Physics, 1993, 20, 667-677.	1.6	114
370	Sampling methods for a matrix ionization chamber system. Medical Physics, 1992, 19, 409-418.	1.6	11
371	Automatic verification of radiation field shape using digital portal images. Medical Physics, 1992, 19, 1007-1014.	1.6	41
372	A review of electronic portal imaging devices (EPIDs). Medical Physics, 1992, 19, 1-16.	1.6	263
373	A fast algorithm for local minimum and maximum filters on rectangular and octagonal kernels. Pattern Recognition Letters, 1992, 13, 517-521.	2.6	194
374	Physical aspects of a liquid-filled ionization chamber with pulsed polarizing voltage. Medical Physics, 1991, 18, 692-702.	1.6	59
375	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.	1.6	78
376	Radiation field edge detection in portal images. Physics in Medicine and Biology, 1991, 36, 1705-1710.	1.6	73
377	First clinical experience with a newly developed electronic portal imaging device. International Journal of Radiation Oncology Biology Physics, 1990, 18, 1173-1181.	0.4	80
378	A matrix ionisation chamber imaging device for on-line patient setup verification during radiotherapy. Radiotherapy and Oncology, 1988, 11, 369-378.	0.3	143

#	ARTICLE	IF	CITATIONS
379	An inverse filter for digital restoration of portal images. <i>Physics in Medicine and Biology</i> , 1988, 33, 687-702.	1.6	15
380	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