

# 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

8749

75  
h-index

6990

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 &amp; 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 $\hat{\beta}$ -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 tomography. <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 in vivo portal dosimetry of all treatments. <i>Physics in Medicine and Biology</i> , 2013, 58, 8253-8264.	1.6	57
142	3D EPID-based in vivo 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
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