

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

8755

75
h-index

6996

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. | 3.0 | 3 |
| 2 | In Reply to Ebert et al.. International Journal of Radiation Oncology Biology Physics, 2022, 112, 833-834. | 0.8 | 1 |
| 3 | Radial Data Mining to Identify Density-Dose Interactions That Predict Distant Failure Following SABR. Frontiers in Oncology, 2022, 12, 838155. | 2.8 | 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. | 2.9 | 2 |
| 5 | Causal relation between heart irradiation and survival of lung cancer patients after radiotherapy. Radiotherapy and Oncology, 2022, 172, 126-133. | 0.6 | 7 |
| 6 | Image-based data mining applies to data collected from children. Physica Medica, 2022, 99, 31-43. | 0.7 | 4 |
| 7 | The impact of an educational tool in cervix image registration across three imaging modalities. British Journal of Radiology, 2022, 95, . | 2.2 | 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. | 3.0 | 4 |
| 9 | Novel methodology to assess the effect of contouring variation on treatment outcome. Medical Physics, 2021, 48, 3234-3242. | 3.0 | 5 |
| 10 | Challenges in the target volume definition of lung cancer radiotherapy. Translational Lung Cancer Research, 2021, 10, 1983-1998. | 2.8 | 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. | 3.0 | 8 |
| 12 | An evaluation of MR based deep learning auto-contouring for planning head and neck radiotherapy. Radiotherapy and Oncology, 2021, 158, 112-117. | 0.6 | 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. | 0.6 | 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. | 0.8 | 12 |
| 15 | Technical Note: Four-dimensional deformable digital phantom for MRI sequence development. Medical Physics, 2021, 48, 5406-5413. | 3.0 | 4 |
| 16 | Low dose cone beam CT for paediatric image-guided radiotherapy: Image quality and practical recommendations. Radiotherapy and Oncology, 2021, 163, 68-75. | 0.6 | 6 |
| 17 | Early prediction of tumour-response to radiotherapy in NSCLC patients. Physics in Medicine and Biology, 2021, 66, 225002. | 3.0 | 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. | 0.6 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Magnetic resonanceâ€guided radiation therapy: A review. Journal of Medical Imaging and Radiation Oncology, 2020, 64, 163-177. | 1.8 | 104 |
| 20 | Is tumour sphericity an important prognostic factor in patients with lung cancer?. Radiotherapy and Oncology, 2020, 143, 73-80. | 0.6 | 18 |
| 21 | Retrospective Analyses of Registry Data for Technical Radiation Oncology Questions: Apples Versus Pears or Solid Evidence?. Journal of Thoracic Oncology, 2020, 15, 15-17. | 1.1 | 3 |
| 22 | The impact of baseline shifts towards the heart after image guidance on survival in lung SABR patients. Radiotherapy and Oncology, 2020, 152, 183-188. | 0.6 | 12 |
| 23 | Inter-fraction robustness of intensity-modulated proton therapy in the post-operative treatment of oropharyngeal and oral cavity squamous cell carcinomas. British Journal of Radiology, 2020, 93, 20190638. | 2.2 | 12 |
| 24 | Influence of heterogeneous media on Very High Energy Electron (VHEE) dose penetration and a Monte Carlo-based comparison with existing radiotherapy modalities. Nuclear Instruments & Methods in Physics Research B, 2020, 482, 70-81. | 1.4 | 16 |
| 25 | Dose surface maps of the heart can identify regions associated with worse survival for lung cancer patients treated with radiotherapy. Physics and Imaging in Radiation Oncology, 2020, 15, 46-51. | 2.9 | 19 |
| 26 | Predictive value of vascular calcification identified in 4D planning CT of lung cancer patients treated with stereotactic body radiation therapy. Physica Medica, 2020, 78, 173-178. | 0.7 | 5 |
| 27 | Cardiac sub-volume targeting demonstrates regional radiosensitivity in the mouse heart. Radiotherapy and Oncology, 2020, 152, 216-221. | 0.6 | 26 |
| 28 | Three-dimensional (3D) magnetic resonance volume assessment and loco-regional failure in anal cancer: early evaluation case-control study. BMC Cancer, 2020, 20, 1165. | 2.6 | 1 |
| 29 | Image Based Data Mining Using Per-voxel Cox Regression. Frontiers in Oncology, 2020, 10, 1178. | 2.8 | 15 |
| 30 | Cardiovascular mortality and morbidity following radical radiotherapy for lung cancer: Is cardiovascular death under-reported?. Lung Cancer, 2020, 146, 1-5. | 2.0 | 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. Radiotherapy and Oncology, 2020, 152, 177-182. | 0.6 | 9 |
| 32 | Image guidance in radiation therapy for better cure of cancer. Molecular Oncology, 2020, 14, 1470-1491. | 4.6 | 63 |
| 33 | Novel Methodology to Investigate the Effect of Radiation Dose to Heart Substructures on Overall Survival. International Journal of Radiation Oncology Biology Physics, 2020, 108, 1073-1081. | 0.8 | 62 |
| 34 | Accurate MR Image Registration to Anatomical Reference Space for Diffuse Glioma. Frontiers in Neuroscience, 2020, 14, 585. | 2.8 | 25 |
| 35 | Comparison of radiographer interobserver image registration variability using cone beam CT and MR for cervix radiotherapy. British Journal of Radiology, 2020, 93, 20200169. | 2.2 | 6 |
| 36 | Characterizing local dose perturbations due to gas cavities in magnetic resonanceâ€guided radiotherapy. Medical Physics, 2020, 47, 2484-2494. | 3.0 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Radiotherapy-Related Lymphopenia Affects Overall Survival in Patients With Lung Cancer. <i>Journal of Thoracic Oncology</i> , 2020, 15, 1624-1635. | 1.1 | 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. | 0.8 | 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. | 2.3 | 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. | 3.0 | 3 |
| 41 | New approaches for effective and safe pelvic radiotherapy in high-risk prostate cancer. <i>Nature Reviews Urology</i> , 2019, 16, 523-538. | 3.8 | 21 |
| 42 | In Regard to Zhang et al. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 104, 1179-1180. | 0.8 | 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. | 3.0 | 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. | 2.7 | 6 |
| 45 | Is reducing irradiated margins key to improving outcomes for radiotherapy?. <i>Lancet Oncology</i> , The, 2019, 20, 1208-1210. | 10.7 | 2 |
| 46 | Voxelwise statistical methods to localize practice variation in brain tumor surgery. <i>PLoS ONE</i> , 2019, 14, e0222939. | 2.5 | 5 |
| 47 | FAst Segmentation Through SURface Fairing (FASTSURF): A novel semi-automatic hippocampus segmentation method. <i>PLoS ONE</i> , 2019, 14, e0210641. | 2.5 | 8 |
| 48 | Evolutionary Machine Learning for Multi-Objective Class Solutions in Medical Deformable Image Registration. <i>Algorithms</i> , 2019, 12, 99. | 2.1 | 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. | 2.3 | 5 |
| 50 | Quantitative evaluation of 4D Cone beam CT scans with reduced scan time in lung cancer patients. <i>Radiotherapy and Oncology</i> , 2019, 136, 64-70. | 0.6 | 10 |
| 51 | Influence of tumour laterality on patient survival in non-small cell lung cancer after radiotherapy. <i>Radiotherapy and Oncology</i> , 2019, 137, 71-76. | 0.6 | 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. | 1.8 | 18 |
| 53 | Post-treatment lymphocytopaenia, integral body dose and overall survival in lung cancer patients treated with radical radiotherapy. <i>Radiotherapy and Oncology</i> , 2019, 135, 115-119. | 0.6 | 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. | 2.2 | 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. | 2.3 | 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. | 1.8 | 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. | 0.6 | 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. | 1.9 | 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. | 1.8 | 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. | 0.6 | 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. | 0.6 | 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. | 0.8 | 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. | 0.8 | 23 |
| 65 | Changes in prostate apparent diffusion coefficient values during radiotherapy after neoadjuvant hormones. <i>Therapeutic Advances in Urology</i> , 2018, 10, 359-364. | 2.0 | 4 |
| 66 | Robust radiotherapy planning. <i>Physics in Medicine and Biology</i> , 2018, 63, 22TR02. | 3.0 | 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. | 0.7 | 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. | 0.8 | 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. | 3.0 | 21 |
| 70 | Earliest radiological progression in glioblastoma by multidisciplinary consensus review. <i>Journal of Neuro-Oncology</i> , 2018, 139, 591-598. | 2.9 | 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. | 0.8 | 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. | 0.8 | 83 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 73 | Comparison of SUVmax and SUVpeak based segmentation to determine primary lung tumour volume on FDG PET-CT correlated with pathology data. Radiotherapy and Oncology, 2018, 129, 227-233. | 0.6 | 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. Biomedical Optics Express, 2018, 9, 4196. | 2.9 | 4 |
| 75 | Feasibility of using optical coherence tomography to detect acute radiation-induced esophageal damage in small animal models. Journal of Biomedical Optics, 2018, 23, 1. | 2.6 | 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. Journal of Medical Imaging, 2018, 5, 1. | 1.5 | 2 |
| 77 | Semi-automatic hippocampus delineation algorithm using surface fairing. IFMBE Proceedings, 2018, , 956-959. | 0.3 | 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. Journal of Medical Imaging, 2018, 5, 1. | 1.5 | 3 |
| 79 | Using a contextualized sensemaking model for interaction design: A case study of tumor contouring. Journal of Biomedical Informatics, 2017, 65, 145-158. | 4.3 | 12 |
| 80 | The feasibility of manual parameter tuning for deformable breast MR image registration from a multi-objective optimization perspective. Physics in Medicine and Biology, 2017, 62, 5723-5743. | 3.0 | 9 |
| 81 | Optimal combination of anti-scatter grids and software correction for CBCT imaging. Medical Physics, 2017, 44, 4437-4451. | 3.0 | 42 |
| 82 | Addition of MRI for CT-based pancreatic tumor delineation: a feasibility study. Acta Oncologica, 2017, 56, 923-930. | 1.8 | 23 |
| 83 | A population based statistical model for daily geometric variations in the thorax. Radiotherapy and Oncology, 2017, 123, 99-105. | 0.6 | 8 |
| 84 | Visibility of fiducial markers used for image-guided radiation therapy on optical coherence tomography for registration with CT: An esophageal phantom study. Medical Physics, 2017, 44, 6570-6582. | 3.0 | 10 |
| 85 | The impact of breathing amplitude on dose homogeneity in intensity modulated proton therapy. Physics and Imaging in Radiation Oncology, 2017, 3, 11-16. | 2.9 | 7 |
| 86 | Beyond the margin recipe: the probability of correct target dosage and tumor control in the presence of a dose limiting structure. Physics in Medicine and Biology, 2017, 62, 7874-7888. | 3.0 | 18 |
| 87 | Radiation dose to heart base linked with poorer survival in lung cancer patients. European Journal of Cancer, 2017, 85, 106-113. | 2.8 | 136 |
| 88 | Technical Note: Investigating the impact of field size on patient selection for the 1.5T MR-Linac. Medical Physics, 2017, 44, 5667-5671. | 3.0 | 23 |
| 89 | Nodal stage migration and prognosis in anal cancer: a systematic review, meta-regression, and simulation study. Lancet Oncology, The, 2017, 18, 1348-1359. | 10.7 | 51 |
| 90 | Considerable interobserver variation in delineation of pancreatic cancer on 3DCT and 4DCT: a multi-institutional study. Radiation Oncology, 2017, 12, 58. | 2.7 | 17 |

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|-----|--|------|-----------|
| 91 | Imaging biomarker roadmap for cancer studies. Nature Reviews Clinical Oncology, 2017, 14, 169-186. | 27.6 | 792 |
| 92 | The influence of automation on tumor contouring. Cognition, Technology and Work, 2017, 19, 795-808. | 3.0 | 5 |
| 93 | Regional analysis of volumes and reproducibilities of automatic and manual hippocampal segmentations. PLoS ONE, 2017, 12, e0166785. | 2.5 | 14 |
| 94 | A first step toward uncovering the truth about weight tuning in deformable image registration. Proceedings of SPIE, 2016, , . | 0.8 | 0 |
| 95 | An automated workflow for patient-specific quality control of contour propagation. Physics in Medicine and Biology, 2016, 61, 8577-8586. | 3.0 | 17 |
| 96 | Online 3D EPID-based dose verification: Proof of concept. Medical Physics, 2016, 43, 3969-3974. | 3.0 | 49 |
| 97 | Clinical introduction of image lag correction for a cone beam CT system. Medical Physics, 2016, 43, 1057-1064. | 3.0 | 8 |
| 98 | Impact of coronal and sagittal views on lung gross tumor volume delineation. Physica Medica, 2016, 32, 1082-1087. | 0.7 | 2 |
| 99 | MRI-guided prostate adaptive radiotherapy – A systematic review. Radiotherapy and Oncology, 2016, 119, 371-380. | 0.6 | 124 |
| 100 | Head and Neck Margin Reduction With Adaptive Radiation Therapy: Robustness of Treatment Plans Against Anatomy Changes. International Journal of Radiation Oncology Biology Physics, 2016, 96, 653-660. | 0.8 | 44 |
| 101 | Effects of anatomical changes on pencil beam scanning proton plans in locally advanced NSCLC patients. Radiotherapy and Oncology, 2016, 120, 286-292. | 0.6 | 44 |
| 102 | Feasibility of OCT to detect radiation-induced esophageal damage in small animal models (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 7 | | |
| 103 | Dynamic CT perfusion image data compression for efficient parallel processing. Medical and Biological Engineering and Computing, 2016, 54, 463-473. | 2.8 | 5 |
| 104 | Changes in prostate volume during neo-adjuvant hormone therapy and definitive radiotherapy.. Journal of Clinical Oncology, 2016, 34, e628-e628. | 1.6 | 0 |
| 105 | TU-D-202-00: Rest In Peace - ITV. Medical Physics, 2016, 43, 3747-3747. | 3.0 | 0 |
| 106 | Portal dosimetry in wedged beams. Journal of Applied Clinical Medical Physics, 2015, 16, 244-257. | 1.9 | 2 |
| 107 | Current status of 3D EPID-based in vivo dosimetry in The Netherlands Cancer Institute. Journal of Physics: Conference Series, 2015, 573, 012014. | 0.4 | 12 |
| 108 | Dose – surface maps identifying local dose – effects for acute gastrointestinal toxicity after radiotherapy for prostate cancer. Radiotherapy and Oncology, 2015, 117, 515-520. | 0.6 | 59 |

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|-----|---|-----|-----------|
| 109 | 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. | 1.8 | 13 |
| 110 | Clinical evaluation of respiration-induced attenuation uncertainties in pulmonary 3D PET/CT. <i>EJNMMI Physics</i> , 2015, 2, 4. | 2.7 | 10 |
| 111 | Comment on “Multi-modality functional image guided dose escalation in the presence of uncertainties” TM . <i>Radiotherapy and Oncology</i> , 2015, 115, 149. | 0.6 | 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. | 0.6 | 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. | 2.1 | 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. | 0.6 | 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. | 0.8 | 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. | 0.8 | 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. | 3.0 | 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. | 0.6 | 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. | 2.1 | 61 |
| 122 | PlanJury: probabilistic plan evaluation revisited. <i>Journal of Physics: Conference Series</i> , 2014, 489, 012062. | 0.4 | 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. | 3.0 | 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. | 0.6 | 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. | 3.0 | 18 |
| 126 | Clinical implementation and rapid commissioning of an EPID based<i>in-vivo</i>dosimetry system. <i>Physics in Medicine and Biology</i> , 2014, 59, N171-N179. | 3.0 | 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. | 1.8 | 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. | 3.0 | 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. | 0.8 | 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. | 5.7 | 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. | 0.6 | 23 |
| 132 | Integration of a clinical trial database with a PACS. <i>Journal of Physics: Conference Series</i> , 2014, 489, 012099. | 0.4 | 4 |
| 133 | Multiple comparisons permutation test for image based data mining in radiotherapy. <i>Radiation Oncology</i> , 2013, 8, 293. | 2.7 | 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. | 0.6 | 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. | 0.6 | 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. | 0.6 | 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. | 0.8 | 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. | 0.8 | 22 |
| 139 | Motion compensated digital tomosynthesis. <i>Radiotherapy and Oncology</i> , 2013, 109, 398-403. | 0.6 | 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. | 0.6 | 24 |
| 141 | Automatic <i>in vivo</i> portal dosimetry of all treatments. <i>Physics in Medicine and Biology</i> , 2013, 58, 8253-8264. | 3.0 | 57 |
| 142 | 3D EPID-based <i>in vivo</i> dosimetry for IMRT and VMAT. <i>Journal of Physics: Conference Series</i> , 2013, 444, 012011. | 0.4 | 17 |
| 143 | Probabilistic objective functions for margin-less IMRT planning. <i>Physics in Medicine and Biology</i> , 2013, 58, 3563-3580. | 3.0 | 38 |
| 144 | Fusion of planning CT and cystoscopy images for bladder tumor delineation: A feasibility study. <i>Medical Physics</i> , 2013, 40, 051713. | 3.0 | 5 |

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|-----|---|-----|-----------|
| 145 | TU-E-108-08: EPID-Based in Vivo Dosimetry: The Next Step in Patient-Specific QA. Medical Physics, 2013, 40, 445-445. | 3.0 | 0 |
| 146 | Validation of deformable registration in head and neck cancer using analysis of variance. Medical Physics, 2012, 39, 6879-6884. | 3.0 | 20 |
| 147 | Semiautomatic bladder segmentation on CBCT using a population-based model for multiple-plan ART of bladder cancer. Physics in Medicine and Biology, 2012, 57, N525-N541. | 3.0 | 6 |
| 148 | Automatic bladder segmentation on CBCT for multiple plan ART of bladder cancer using a patient-specific bladder model. Physics in Medicine and Biology, 2012, 57, 3945-3962. | 3.0 | 25 |
| 149 | Influence of the number of elongated fiducial markers on the localization accuracy of the prostate. Physics in Medicine and Biology, 2012, 57, 6211-6226. | 3.0 | 11 |
| 150 | In-situ imaging of articular cartilage of the first carpometacarpal joint using co-registered optical coherence tomography and computed tomography. Journal of Biomedical Optics, 2012, 17, 060501. | 2.6 | 17 |
| 151 | Quantification of the Variability of Diaphragm Motion and Implications for Treatment Margin Construction. International Journal of Radiation Oncology Biology Physics, 2012, 82, e399-e407. | 0.8 | 55 |
| 152 | Evaluation of Tumor Shape Variability in Head-and-Neck Cancer Patients Over the Course of Radiation Therapy Using Implanted Gold Markers. International Journal of Radiation Oncology Biology Physics, 2012, 84, e201-e207. | 0.8 | 18 |
| 153 | Acute Esophagus Toxicity in Lung Cancer Patients After Intensity Modulated Radiation Therapy and Concurrent Chemotherapy. International Journal of Radiation Oncology Biology Physics, 2012, 84, e223-e228. | 0.8 | 62 |
| 154 | Target volume delineation variation in radiotherapy for early stage rectal cancer in the Netherlands. Radiotherapy and Oncology, 2012, 102, 14-21. | 0.6 | 62 |
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