

Dietmar Georg

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

227
papers

7,286
citations

46
h-index

76
g-index

244
ext. papers

8,417
ext. citations

3.2
avg, IF

5.76
L-index

| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 227 | Ganetespib selectively sensitizes cancer cells for proximal and distal spread-out Bragg peak proton irradiation.. <i>Radiation Oncology</i> , 2022 , 17, 72 | 4.2 | 0 |
| 226 | Activation of efficient DNA repair mechanisms after photon and proton irradiation of human chondrosarcoma cells.. <i>Scientific Reports</i> , 2021 , 11, 24116 | 4.9 | 1 |
| 225 | Effects of a combined therapy of bortezomib and ionizing radiation on chondrosarcoma three-dimensional spheroid cultures. <i>Oncology Letters</i> , 2021 , 21, 428 | 2.6 | 1 |
| 224 | First application of the GPU-based software framework TIGRE for proton CT image reconstruction. <i>Physica Medica</i> , 2021 , 84, 56-64 | 2.7 | 0 |
| 223 | Early morbidity and dose-volume effects in definitive radiochemotherapy for locally advanced cervical cancer: a prospective cohort study covering modern treatment techniques. <i>Strahlentherapie Und Onkologie</i> , 2021 , 197, 505-519 | 4.3 | 0 |
| 222 | Cone beam CT based validation of neural network generated synthetic CTs for radiotherapy in the head region. <i>Medical Physics</i> , 2021 , 48, 4560-4571 | 4.4 | 1 |
| 221 | Technical Note: Dose prediction for radiation therapy using feature-based losses and One Cycle Learning. <i>Medical Physics</i> , 2021 , 48, 5562-5566 | 4.4 | 4 |
| 220 | Comparing the efficacy of γ and electron-irradiation of PBMCs to promote secretion of paracrine, regenerative factors. <i>Molecular Therapy - Methods and Clinical Development</i> , 2021 , 21, 14-27 | 6.4 | 1 |
| 219 | Technical Note: Design and commissioning of a water phantom for proton dosimetry in magnetic fields. <i>Medical Physics</i> , 2021 , 48, 505-512 | 4.4 | 0 |
| 218 | MR-guided proton therapy: Impact of magnetic fields on the detector response. <i>Medical Physics</i> , 2021 , 48, 2572-2579 | 4.4 | 1 |
| 217 | Computer-assisted beam modeling for particle therapy. <i>Medical Physics</i> , 2021 , 48, 841-851 | 4.4 | 3 |
| 216 | Hypofractionated stereotactic photon radiotherapy of choroidal melanoma: 20-year experience. <i>Acta Oncologica</i> , 2021 , 60, 207-214 | 3.2 | 1 |
| 215 | In reply to the letter to the editor: "In reply to Fiorino et al: The central role of the radiation oncologist in the multidisciplinary and multiprofessional model of modern radiation therapy". <i>Radiotherapy and Oncology</i> , 2021 , 155, e22-e23 | 5.3 | |
| 214 | An MR-only acquisition and artificial intelligence based image-processing protocol for photon and proton therapy using a low field MR. <i>Zeitschrift Fur Medizinische Physik</i> , 2021 , 31, 78-88 | 7.6 | 0 |
| 213 | Report of AAPM Task Group 219 on independent calculation-based dose/MU verification for IMRT. <i>Medical Physics</i> , 2021 , 48, e808-e829 | 4.4 | 5 |
| 212 | Reply to comment on 'Lateral response heterogeneity of Bragg peak ionization chambers for narrow-beam photon and proton dosimetry'. <i>Physics in Medicine and Biology</i> , 2021 , 66, | 3.8 | |
| 211 | Dose calculation accuracy in particle therapy: Comparing carbon ions with protons. <i>Medical Physics</i> , 2021 , 48, 7333-7345 | 4.4 | 0 |

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| 210 | Investigating the impact of alpha/beta and LET on relative biological effectiveness in scanned proton beams: An in vitro study based on human cell lines. <i>Medical Physics</i> , 2020 , 47, 3691-3702 | 4.4 | 10 |
| 209 | MR-guided proton therapy: a review and a preview. <i>Radiation Oncology</i> , 2020 , 15, 129 | 4.2 | 34 |
| 208 | Characterization of the PTW-34089 type 147 mm diameter large-area ionization chamber for use in light-ion beams. <i>Physics in Medicine and Biology</i> , 2020 , 65, 17NT02 | 3.8 | 2 |
| 207 | Investigating conditional GAN performance with different generator architectures, an ensemble model, and different MR scanners for MR-sCT conversion. <i>Physics in Medicine and Biology</i> , 2020 , 65, 105004 | 3.8 | 9 |
| 206 | Dose- rather than fluence-averaged LET should be used as a single-parameter descriptor of proton beam quality for radiochromic film dosimetry. <i>Medical Physics</i> , 2020 , 47, 2289-2299 | 4.4 | 8 |
| 205 | Particle therapy in Europe. <i>Molecular Oncology</i> , 2020 , 14, 1492-1499 | 7.9 | 27 |
| 204 | Implementation of a dose calculation algorithm based on Monte Carlo simulations for treatment planning towards MRI guided ion beam therapy. <i>Physica Medica</i> , 2020 , 74, 155-165 | 2.7 | 4 |
| 203 | Benchmarking a GATE/Geant4 Monte Carlo model for proton beams in magnetic fields. <i>Medical Physics</i> , 2020 , 47, 223-233 | 4.4 | 6 |
| 202 | The influence of errors in small field dosimetry on the dosimetric accuracy of treatment plans. <i>Acta Oncologica</i> , 2020 , 59, 511-517 | 3.2 | 12 |
| 201 | An analytical formalism for the assessment of dose uncertainties due to positioning uncertainties. <i>Medical Physics</i> , 2020 , 47, 1357-1363 | 4.4 | 3 |
| 200 | Experimental benchmarking of RayStation proton dose calculation algorithms inside and outside the target region in heterogeneous phantom geometries. <i>Physica Medica</i> , 2020 , 76, 182-193 | 2.7 | 6 |
| 199 | Grand challenges for medical physics in radiation oncology. <i>Radiotherapy and Oncology</i> , 2020 , 153, 7-14 | 5.3 | 12 |
| 198 | Latent space manipulation for high-resolution medical image synthesis via the StyleGAN. <i>Zeitschrift Fur Medizinische Physik</i> , 2020 , 30, 305-314 | 7.6 | 17 |
| 197 | Comparison of CBCT conversion methods for dose calculation in the head and neck region. <i>Zeitschrift Fur Medizinische Physik</i> , 2020 , 30, 289-299 | 7.6 | 4 |
| 196 | Optimization for customized trajectories in cone beam computed tomography. <i>Medical Physics</i> , 2020 , 47, 4786-4799 | 4.4 | 7 |
| 195 | RBE variation in prostate carcinoma cells in active scanning proton beams: In-vitro measurements in comparison with phenomenological models. <i>Physica Medica</i> , 2020 , 77, 187-193 | 2.7 | 2 |
| 194 | Phantom-based quality assurance for multicenter quantitative MRI in locally advanced cervical cancer. <i>Radiotherapy and Oncology</i> , 2020 , 153, 114-121 | 5.3 | 6 |
| 193 | Attenuation correction of a flat table top for radiation therapy in hybrid PET/MR using CT- and Ge/Ga transmission scan-based Emaps. <i>Physica Medica</i> , 2019 , 65, 76-83 | 2.7 | 8 |

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| 192 | Phantom design and dosimetric characterization for multiple simultaneous cell irradiations with active pencil beam scanning. <i>Radiation and Environmental Biophysics</i> , 2019 , 58, 563-573 | 2 | 6 |
| 191 | Testing the methodology for a dosimetric end-to-end audit of IMRT/VMAT: results of IAEA multicentre and national studies. <i>Acta Oncologica</i> , 2019 , 58, 1731-1739 | 3.2 | 3 |
| 190 | FLUKA particle therapy tool for Monte Carlo independent calculation of scanned proton and carbon ion beam therapy. <i>Physics in Medicine and Biology</i> , 2019 , 64, 075012 | 3.8 | 17 |
| 189 | Importance of training in external beam treatment planning for locally advanced cervix cancer: Report from the EMBRACE II dummy run. <i>Radiotherapy and Oncology</i> , 2019 , 133, 149-155 | 5.3 | 7 |
| 188 | Intra- and inter-observer variability in dependence of T1-time correction for common dynamic contrast enhanced MRI parameters in prostate cancer patients. <i>European Journal of Radiology</i> , 2019 , 116, 27-33 | 4.7 | 3 |
| 187 | Characterization of EBT3 radiochromic films for dosimetry of proton beams in the presence of magnetic fields. <i>Medical Physics</i> , 2019 , 46, 3278-3284 | 4.4 | 6 |
| 186 | Image-guided Adaptive Radiotherapy in Cervical Cancer. <i>Seminars in Radiation Oncology</i> , 2019 , 29, 284-298 | 3.8 | 27 |
| 185 | Importance of Technique, Target Selection, Contouring, Dose Prescription, and Dose-Planning in External Beam Radiation Therapy for Cervical Cancer: Evolution of Practice From EMBRACE-I to II. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019 , 104, 885-894 | 4 | 20 |
| 184 | Evaluation of electromagnetic and nuclear scattering models in GATE/Geant4 for proton therapy. <i>Medical Physics</i> , 2019 , 46, 2444-2456 | 4.4 | 20 |
| 183 | Reply to Comment on 'Lateral response heterogeneity of Bragg peak ionization chambers for narrow-beam photon and proton dosimetry'. <i>Physics in Medicine and Biology</i> , 2019 , 64, 198002 | 3.8 | 2 |
| 182 | Bringing Europe together in building clinical evidence for proton therapy - the EPTN-ESTRO-EORTC endeavor. <i>Acta Oncologica</i> , 2019 , 58, 1340-1342 | 3.2 | 8 |
| 181 | Basic Properties of a New Polymer Gel for 3D-Dosimetry at High Dose-Rates Typical for FFF Irradiation Based on Dithiothreitol and Methacrylic Acid (MAGADIT): Sensitivity, Range, Reproducibility, Accuracy, Dose Rate Effect and Impact of Oxygen Scavenger. <i>Polymers</i> , 2019 , 11, | 4.5 | 6 |
| 180 | Sequential [F]FDG-[F]FMISO PET and Multiparametric MRI at 3T for Insights into Breast Cancer Heterogeneity and Correlation with Patient Outcomes: First Clinical Experience. <i>Contrast Media and Molecular Imaging</i> , 2019 , 2019, 1307247 | 3.2 | 5 |
| 179 | 4D perfusion CT of prostate cancer for image-guided radiotherapy planning: A proof of concept study. <i>PLoS ONE</i> , 2019 , 14, e0225673 | 3.7 | 3 |
| 178 | Characteristic of EBT-XD and EBT3 radiochromic film dosimetry for photon and proton beams. <i>Physics in Medicine and Biology</i> , 2018 , 63, 065007 | 3.8 | 46 |
| 177 | A multinational audit of small field output factors calculated by treatment planning systems used in radiotherapy. <i>Physics and Imaging in Radiation Oncology</i> , 2018 , 5, 58-63 | 3.1 | 22 |
| 176 | Retina dose as a predictor for visual acuity loss in Ru eye plaque brachytherapy of uveal melanomas. <i>Radiotherapy and Oncology</i> , 2018 , 127, 379-384 | 5.3 | 4 |
| 175 | Automated volumetric modulated arc therapy planning for whole pelvic prostate radiotherapy. <i>Strahlentherapie Und Onkologie</i> , 2018 , 194, 333-342 | 4.3 | 25 |

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| 174 | The EMBRACE II study: The outcome and prospect of two decades of evolution within the GEC-ESTRO GYN working group and the EMBRACE studies. <i>Clinical and Translational Radiation Oncology</i> , 2018 , 9, 48-60 | 4.6 | 252 |
| 173 | ESTRO ACROP: Technology for precision small animal radiotherapy research: Optimal use and challenges. <i>Radiotherapy and Oncology</i> , 2018 , 126, 471-478 | 5.3 | 62 |
| 172 | A pencil beam algorithm for magnetic resonance image-guided proton therapy. <i>Medical Physics</i> , 2018 , 45, 2195-2204 | 4.4 | 15 |
| 171 | The impact of the oxygen scavenger on the dose-rate dependence and dose sensitivity of MAGIC type polymer gels. <i>Physics in Medicine and Biology</i> , 2018 , 63, 06NT01 | 3.8 | 6 |
| 170 | Changes in Tumor Biology During Chemoradiation of Cervix Cancer Assessed by Multiparametric MRI and Hypoxia PET. <i>Molecular Imaging and Biology</i> , 2018 , 20, 160-169 | 3.8 | 11 |
| 169 | The technological basis for adaptive ion beam therapy at MedAustron: Status and outlook. <i>Zeitschrift Fur Medizinische Physik</i> , 2018 , 28, 196-210 | 7.6 | 32 |
| 168 | Image guided adaptive external beam radiation therapy for cervix cancer: Evaluation of a clinically implemented plan-of-the-day technique. <i>Zeitschrift Fur Medizinische Physik</i> , 2018 , 28, 184-195 | 7.6 | 12 |
| 167 | Towards a Clinical Decision Support System for External Beam Radiation Oncology Prostate Cancer Patients: Proton vs. Photon Radiotherapy? A Radiobiological Study of Robustness and Stability. <i>Cancers</i> , 2018 , 10, | 6.6 | 4 |
| 166 | Union of light ion therapy centers in Europe (ULICE EC FP7) - Objectives and achievements of joint research activities. <i>Radiotherapy and Oncology</i> , 2018 , 128, 83-100 | 5.3 | 5 |
| 165 | Density estimation of grey-level co-occurrence matrices for image texture analysis. <i>Physics in Medicine and Biology</i> , 2018 , 63, 195017 | 3.8 | 5 |
| 164 | Early ultrasonographic tumor regression after linear accelerator stereotactic fractionated photon radiotherapy of choroidal melanoma as a predictor for metastatic spread. <i>Radiotherapy and Oncology</i> , 2018 , 127, 385-391 | 5.3 | 2 |
| 163 | Fully automated, multi-criterial planning for Volumetric Modulated Arc Therapy - An international multi-center validation for prostate cancer. <i>Radiotherapy and Oncology</i> , 2018 , 128, 343-348 | 5.3 | 46 |
| 162 | Magnetic field effects on particle beams and their implications for dose calculation in MR-guided particle therapy. <i>Medical Physics</i> , 2017 , 44, 1149-1156 | 4.4 | 37 |
| 161 | Treatment plan optimization and robustness of Ru eye plaque brachytherapy using a novel software tool. <i>Radiotherapy and Oncology</i> , 2017 , 123, 119-124 | 5.3 | 7 |
| 160 | Lateral response heterogeneity of Bragg peak ionization chambers for narrow-beam photon and proton dosimetry. <i>Physics in Medicine and Biology</i> , 2017 , 62, 9189-9206 | 3.8 | 19 |
| 159 | Association between pathology and texture features of multi parametric MRI of the prostate. <i>Physics in Medicine and Biology</i> , 2017 , 62, 7833-7854 | 3.8 | 17 |
| 158 | Evaluation of GATE/Geant4 multiple Coulomb scattering algorithms for a 160 MeV proton beam. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 410, 122-126 | 1.2 | 12 |
| 157 | Advanced Radiation DOSimetry phantom (ARDOS): a versatile breathing phantom for 4D radiation therapy and medical imaging. <i>Physics in Medicine and Biology</i> , 2017 , 62, 8136-8153 | 3.8 | 8 |

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| 156 | Benchmarking GATE/Geant4 for O ion beam therapy. <i>Physics in Medicine and Biology</i> , 2017 , 62, N474-N484 | 3.8 | 4 |
| 155 | Equivalent (uniform) square field sizes of flattening filter free photon beams. <i>Physics in Medicine and Biology</i> , 2017 , 62, 7694-7713 | 3.8 | 2 |
| 154 | Impact of hybrid PET/MR technology on multiparametric imaging and treatment response assessment of cervix cancer. <i>Radiotherapy and Oncology</i> , 2017 , 125, 420-425 | 5.3 | 18 |
| 153 | Multiparametric [¹¹ C]Acetate positron emission tomography-magnetic resonance imaging in the assessment and staging of prostate cancer. <i>PLoS ONE</i> , 2017 , 12, e0180790 | 3.7 | 6 |
| 152 | Particle Therapy or Brachytherapy? 2017 , 361-368 | | |
| 151 | Multiparametric MRI of the prostate at 3T: limited value of 3D (1)H-MR spectroscopy as a fourth parameter. <i>World Journal of Urology</i> , 2016 , 34, 649-56 | 4 | 15 |
| 150 | Impact of organ shape variations on margin concepts for cervix cancer ART. <i>Radiotherapy and Oncology</i> , 2016 , 120, 526-531 | 5.3 | 13 |
| 149 | Absorbed dose measurements in the build-up region of flattened versus unflattened megavoltage photon beams. <i>Zeitschrift Fur Medizinische Physik</i> , 2016 , 26, 177-83 | 7.6 | 3 |
| 148 | Can particle beam therapy be improved using helium ions? - a planning study focusing on pediatric patients. <i>Acta Oncologica</i> , 2016 , 55, 751-9 | 3.2 | 34 |
| 147 | Multiparametric [¹⁸ F]Fluorodeoxyglucose/ [¹⁸ F]Fluoromisonidazole Positron Emission Tomography/ Magnetic Resonance Imaging of Locally Advanced Cervical Cancer for the Non-Invasive Detection of Tumor Heterogeneity: A Pilot Study. <i>PLoS ONE</i> , 2016 , 11, e0155333 | 3.7 | 35 |
| 146 | Technical Note: On the impact of the incident electron beam energy on the primary dose component of flattening filter free photon beams. <i>Medical Physics</i> , 2016 , 43, 4507 | 4.4 | 3 |
| 145 | A validated tumor control probability model based on a meta-analysis of low, intermediate, and high-risk prostate cancer patients treated by photon, proton, or carbon-ion radiotherapy. <i>Medical Physics</i> , 2016 , 43, 734-47 | 4.4 | 9 |
| 144 | Head-to-head comparison of PI-RADS v2 and PI-RADS v1. <i>European Journal of Radiology</i> , 2016 , 85, 1125-31 | 4.7 | 81 |
| 143 | Advanced optimization methods for whole pelvic and local prostate external beam therapy. <i>Physica Medica</i> , 2016 , 32, 465-73 | 2.7 | 12 |
| 142 | Testing the methodology for dosimetry audit of heterogeneity corrections and small MLC-shaped fields: Results of IAEA multi-center studies. <i>Acta Oncologica</i> , 2016 , 55, 909-16 | 3.2 | 12 |
| 141 | ART for head and neck patients: On the difference between VMAT and IMPT. <i>Acta Oncologica</i> , 2015 , 54, 1166-74 | 3.2 | 20 |
| 140 | Systematic analysis on the achievable accuracy of PT-PET through automated evaluation techniques. <i>Zeitschrift Fur Medizinische Physik</i> , 2015 , 25, 146-55 | 7.6 | 5 |
| 139 | Awareness, time and dimensions and their link to Medical Radiation Physics and Radiation Oncology. <i>Zeitschrift Fur Medizinische Physik</i> , 2015 , 25, 203-5 | 7.6 | 1 |

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| 138 | VMAT techniques for lymph node-positive left sided breast cancer. <i>Zeitschrift Fur Medizinische Physik</i> , 2015 , 25, 104-11 | 7.6 | 17 |
| 137 | Implementation of spot scanning dose optimization and dose calculation for helium ions in Hyperion. <i>Medical Physics</i> , 2015 , 42, 5157-66 | 4.4 | 12 |
| 136 | PET image segmentation using a Gaussian mixture model and Markov random fields. <i>EJNMMI Physics</i> , 2015 , 2, 9 | 4.4 | 17 |
| 135 | Linking log files with dosimetric accuracy--A multi-institutional study on quality assurance of volumetric modulated arc therapy. <i>Radiotherapy and Oncology</i> , 2015 , 117, 407-11 | 5.3 | 14 |
| 134 | Feasibility of dominant intraprostatic lesion boosting using advanced photon-, proton- or brachytherapy. <i>Radiotherapy and Oncology</i> , 2015 , 117, 509-14 | 5.3 | 23 |
| 133 | PET/MRI in cervical cancer: Insights into tumor biology.. <i>Journal of Clinical Oncology</i> , 2015 , 33, 5597-5597.2 | 7.2 | 1 |
| 132 | Radiochromic film dosimetry: considerations on precision and accuracy for EBT2 and EBT3 type films. <i>Zeitschrift Fur Medizinische Physik</i> , 2014 , 24, 153-63 | 7.6 | 64 |
| 131 | Impact of a flattening filter free linear accelerator on structural shielding design. <i>Zeitschrift Fur Medizinische Physik</i> , 2014 , 24, 38-48 | 7.6 | 9 |
| 130 | Assessment of improved organ at risk sparing for meningioma: light ion beam therapy as boost versus sole treatment option. <i>Radiotherapy and Oncology</i> , 2014 , 111, 451-6 | 5.3 | 2 |
| 129 | Novel radiotherapy techniques for involved-field and involved-node treatment of mediastinal Hodgkin lymphoma: when should they be considered and which questions remain open?. <i>Strahlentherapie Und Onkologie</i> , 2014 , 190, 864-6, 868-71 | 4.3 | 15 |
| 128 | Dosimetric challenges of small animal irradiation with a commercial X-ray unit. <i>Zeitschrift Fur Medizinische Physik</i> , 2014 , 24, 363-72 | 7.6 | 22 |
| 127 | Detector to detector corrections: a comprehensive experimental study of detector specific correction factors for beam output measurements for small radiotherapy beams. <i>Medical Physics</i> , 2014 , 41, 072103 | 4.4 | 105 |
| 126 | Dosimetric considerations to determine the optimal technique for localized prostate cancer among external photon, proton, or carbon-ion therapy and high-dose-rate or low-dose-rate brachytherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014 , 88, 715-22 | 4 | 58 |
| 125 | Validation of real-time intensity based 2D/3D registration for image guided radiotherapy 2014 , | | 1 |
| 124 | Real-time 2D/3D registration using kV-MV image pairs for tumor motion tracking in image guided radiotherapy. <i>Acta Oncologica</i> , 2013 , 52, 1464-71 | 3.2 | 17 |
| 123 | Dose-response of critical structures in the posterior eye segment to hypofractionated stereotactic photon radiotherapy of choroidal melanoma. <i>Radiotherapy and Oncology</i> , 2013 , 108, 348-53 | 5.3 | 8 |
| 122 | Detector comparison for small field output factor measurements in flattening filter free photon beams. <i>Radiotherapy and Oncology</i> , 2013 , 109, 356-60 | 5.3 | 64 |
| 121 | Prostate and patient intrafraction motion: impact on treatment time-dependent planning margins for patients with endorectal balloon. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 86, 755-61 | 4 | 28 |

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| 120 | Imaging dose assessment for IGRT in particle beam therapy. <i>Radiotherapy and Oncology</i> , 2013 , 109, 409-13 | 13 |
| 119 | A quantitative comparison of the performance of three deformable registration algorithms in radiotherapy. <i>Zeitschrift Fur Medizinische Physik</i> , 2013 , 23, 279-90 | 7.6 18 |
| 118 | Dosimetry auditing procedure with alanine dosimeters for light ion beam therapy. <i>Radiotherapy and Oncology</i> , 2013 , 108, 99-106 | 5.3 19 |
| 117 | Hypofractionated stereotactic photon radiotherapy of posteriorly located choroidal melanoma with five fractions at ten Gy--clinical results after six years of experience. <i>Radiotherapy and Oncology</i> , 2013 , 108, 342-7 | 5.3 17 |
| 116 | Evaluation of treatment plan quality of IMRT and VMAT with and without flattening filter using Pareto optimal fronts. <i>Radiotherapy and Oncology</i> , 2013 , 109, 437-41 | 5.3 34 |
| 115 | Is there an advantage in designing adapted, patient-specific PTV margins in intensity modulated proton beam therapy for prostate cancer?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 85, 881-8 | 4 11 |
| 114 | In reply A. Sharma et al. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 85, 288-9 | 4 |
| 113 | Automatic patient alignment system using 3D ultrasound. <i>Medical Physics</i> , 2013 , 40, 041714 | 4.4 19 |
| 112 | Is there room for combined modality treatments? Dosimetric comparison of boost strategies for advanced head and neck and prostate cancer. <i>Journal of Radiation Research</i> , 2013 , 54 Suppl 1, i97-112 | 2.4 5 |
| 111 | Robustness of IMPT treatment plans with respect to inter-fractional set-up uncertainties: impact of various beam arrangements for cranial targets. <i>Acta Oncologica</i> , 2013 , 52, 570-9 | 3.2 14 |
| 110 | Automated evaluation of setup errors in carbon ion therapy using PET: feasibility study. <i>Medical Physics</i> , 2013 , 40, 121718 | 4.4 7 |
| 109 | Grand challenges in biomedical physics. <i>Frontiers in Physics</i> , 2013 , 1, | 3.9 8 |
| 108 | PET based volume segmentation with emphasis on the iterative TrueX algorithm. <i>Zeitschrift Fur Medizinische Physik</i> , 2012 , 22, 29-39 | 7.6 26 |
| 107 | Dose effect relationship for late side effects of the rectum and urinary bladder in magnetic resonance image-guided adaptive cervix cancer brachytherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 82, 653-7 | 4 163 |
| 106 | Cone-beam CT-based delineation of stereotactic lung targets: the influence of image modality and target size on interobserver variability. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 82, e265-72 | 4 34 |
| 105 | Radiogenic side effects after hypofractionated stereotactic photon radiotherapy of choroidal melanoma in 212 patients treated between 1997 and 2007. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 83, 121-8 | 4 26 |
| 104 | Monitoring tumor motion by real time 2D/3D registration during radiotherapy. <i>Radiotherapy and Oncology</i> , 2012 , 102, 274-80 | 5.3 59 |
| 103 | IGRT induced dose burden for a variety of imaging protocols at two different anatomical sites. <i>Radiotherapy and Oncology</i> , 2012 , 102, 355-63 | 5.3 39 |

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| 102 | Comparison of basic features of proton and helium ion pencil beams in water using GATE. <i>Zeitschrift Fur Medizinische Physik</i> , 2012 , 22, 170-8 | 7.6 | 20 |
| 101 | Feasibility of CBCT-based dose calculation: comparative analysis of HU adjustment techniques. <i>Radiotherapy and Oncology</i> , 2012 , 104, 249-56 | 5.3 | 90 |
| 100 | A pencil beam algorithm for helium ion beam therapy. <i>Medical Physics</i> , 2012 , 39, 6726-37 | 4.4 | 23 |
| 99 | Using statistical measures for automated comparison of in-beam PET data. <i>Medical Physics</i> , 2012 , 39, 5874-81 | 4.4 | 18 |
| 98 | Feasibility of CBCT-based target and normal structure delineation in prostate cancer radiotherapy: multi-observer and image multi-modality study. <i>Radiotherapy and Oncology</i> , 2011 , 98, 154-61 | 5.3 | 66 |
| 97 | Clinical outcome of protocol based image (MRI) guided adaptive brachytherapy combined with 3D conformal radiotherapy with or without chemotherapy in patients with locally advanced cervical cancer. <i>Radiotherapy and Oncology</i> , 2011 , 100, 116-23 | 5.3 | 546 |
| 96 | Radiation therapy with unflattened photon beams: dosimetric accuracy of advanced dose calculation algorithms. <i>Radiotherapy and Oncology</i> , 2011 , 100, 417-23 | 5.3 | 28 |
| 95 | Effect of photon-beam energy on VMAT and IMRT treatment plan quality and dosimetric accuracy for advanced prostate cancer. <i>Strahlentherapie Und Onkologie</i> , 2011 , 187, 792-8 | 4.3 | 24 |
| 94 | Clinical comparison of dose calculation using the enhanced collapsed cone algorithm vs. a new Monte Carlo algorithm. <i>Strahlentherapie Und Onkologie</i> , 2011 , 187, 433-41 | 4.3 | 18 |
| 93 | Rotational IMRT techniques compared to fixed gantry IMRT and tomotherapy: multi-institutional planning study for head-and-neck cases. <i>Radiation Oncology</i> , 2011 , 6, 20 | 4.2 | 64 |
| 92 | Dose-volume histogram parameters and late side effects in magnetic resonance image-guided adaptive cervical cancer brachytherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 79, 356-62 | 4 | 139 |
| 91 | Local tumor control, visual acuity, and survival after hypofractionated stereotactic photon radiotherapy of choroidal melanoma in 212 patients treated between 1997 and 2007. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 81, 199-205 | 4 | 64 |
| 90 | In Response to Dr. Wei and Colleagues. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 81, 315-316 | 4 | |
| 89 | Current status and future perspective of flattening filter free photon beams. <i>Medical Physics</i> , 2011 , 38, 1280-93 | 4.4 | 215 |
| 88 | Flattening filter free beams in SBRT and IMRT: dosimetric assessment of peripheral doses. <i>Zeitschrift Fur Medizinische Physik</i> , 2011 , 21, 91-101 | 7.6 | 109 |
| 87 | Physics Perspectives on the Role of 3D Imaging 2011 , 61-72 | | |
| 86 | Assessing a set of optimal user interface parameters for intensity-modulated proton therapy planning. <i>Journal of Applied Clinical Medical Physics</i> , 2010 , 11, 3219 | 2.3 | 11 |
| 85 | A detailed dosimetric comparison between manual and inverse plans in HDR intracavitary/interstitial cervical cancer brachytherapy. <i>Journal of Contemporary Brachytherapy</i> , 2010 , 2, 163-170 | 1.9 | 18 |

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| 84 | A Monte Carlo study of a flattening filter-free linear accelerator verified with measurements. <i>Physics in Medicine and Biology</i> , 2010 , 55, 7333-44 | 3.8 | 54 |
| 83 | A new gold-standard dataset for 2D/3D image registration evaluation 2010 , | | 4 |
| 82 | Evaluating repetitive 18F-fluoroazomycin-arabino- <i>s</i> ide (18FAZA) PET in the setting of MRI guided adaptive radiotherapy in cervical cancer. <i>Acta Oncologica</i> , 2010 , 49, 941-7 | 3.2 | 57 |
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