

Dietmar Georg

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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	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
226	Dose and volume parameters for MRI-based treatment planning in intracavitary brachytherapy for cervical cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 62, 901-11	4	277
225	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
224	The Vienna applicator for combined intracavitary and interstitial brachytherapy of cervical cancer: design, application, treatment planning, and dosimetric results. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006 , 65, 624-30	4	236
223	Current status and future perspective of flattening filter free photon beams. <i>Medical Physics</i> , 2011 , 38, 1280-93	4.4	215
222	Treatment planning comparison of conventional, 3D conformal, and intensity-modulated photon (IMRT) and proton therapy for paranasal sinus carcinoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 58, 147-54	4	166
221	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
220	Dosimetric characterization of GafChromic EBT film and its implication on film dosimetry quality assurance. <i>Physics in Medicine and Biology</i> , 2007 , 52, 4211-25	3.8	146
219	Dosimetric characteristics of 6 and 10MV unflattened photon beams. <i>Radiotherapy and Oncology</i> , 2009 , 93, 141-6	5.3	142
218	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
217	Image-guided radiotherapy for cervix cancer: high-tech external beam therapy versus high-tech brachytherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 71, 1272-8	4	112
216	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
215	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
214	Correlation of dose-volume parameters, endoscopic and clinical rectal side effects in cervix cancer patients treated with definitive radiotherapy including MRI-based brachytherapy. <i>Radiotherapy and Oncology</i> , 2009 , 91, 173-80	5.3	100
213	Dose-response characteristics of an amorphous silicon EPID. <i>Medical Physics</i> , 2005 , 32, 3095-105	4.4	95
212	Interpretation and evaluation of the gamma index and the gamma index angle for the verification of IMRT hybrid plans. <i>Physics in Medicine and Biology</i> , 2005 , 50, 399-411	3.8	93
211	Feasibility of CBCT-based dose calculation: comparative analysis of HU adjustment techniques. <i>Radiotherapy and Oncology</i> , 2012 , 104, 249-56	5.3	90

210	LINAC based stereotactic radiotherapy of uveal melanoma: 4 years clinical experience. <i>Radiotherapy and Oncology</i> , 2003 , 67, 199-206	5.3	88
209	Adaptive management of cervical cancer radiotherapy. <i>Seminars in Radiation Oncology</i> , 2010 , 20, 121-9	5.5	83
208	Head-to-head comparison of PI-RADS v2 and PI-RADS v1. <i>European Journal of Radiology</i> , 2016 , 85, 1125-31	7.1	81
207	Intercomparison of treatment concepts for MR image assisted brachytherapy of cervical carcinoma based on GYN GEC-ESTRO recommendations. <i>Radiotherapy and Oncology</i> , 2006 , 78, 185-93	5.3	74
206	Treatment planning for MRI assisted brachytherapy of gynecologic malignancies based on total dose constraints. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 69, 619-27	4	72
205	Factors influencing bowel sparing in intensity modulated whole pelvic radiotherapy for gynaecological malignancies. <i>Radiotherapy and Oncology</i> , 2006 , 80, 19-26	5.3	72
204	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
203	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
202	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
201	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
200	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
199	Uncertainties when using only one MRI-based treatment plan for subsequent high-dose-rate tandem and ring applications in brachytherapy of cervix cancer. <i>Radiotherapy and Oncology</i> , 2006 , 81, 269-75	5.3	64
198	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
197	Comparative treatment planning on localized prostate carcinoma conformal photon- versus proton-based radiotherapy. <i>Strahlentherapie Und Onkologie</i> , 2005 , 181, 448-55	4.3	61
196	Monitoring tumor motion by real time 2D/3D registration during radiotherapy. <i>Radiotherapy and Oncology</i> , 2012 , 102, 274-80	5.3	59
195	Image quality and stability of image-guided radiotherapy (IGRT) devices: A comparative study. <i>Radiotherapy and Oncology</i> , 2009 , 93, 1-7	5.3	59
194	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
193	Application of commercial MOSFET detectors for in vivo dosimetry in the therapeutic x-ray range from 80 kV to 250 kV. <i>Physics in Medicine and Biology</i> , 2005 , 50, 289-303	3.8	58

192	Prescribing, recording, and reporting in endovascular brachytherapy. Quality assurance, equipment, personnel and education. <i>Radiotherapy and Oncology</i> , 2001 , 59, 339-60	5:3	58
191	Evaluating repetitive 18F-fluoroazomycin-arabinoide (18FAZA) PET in the setting of MRI guided adaptive radiotherapy in cervical cancer. <i>Acta Oncologica</i> , 2010 , 49, 941-7	3:2	57
190	Development and application of a real-time monitoring and feedback system for deep inspiration breath hold based on external marker tracking. <i>Medical Physics</i> , 2006 , 33, 2868-77	4:4	57
189	Dosimetric quality assurance for intensity-modulated radiotherapy feasibility study for a filmless approach. <i>Strahlentherapie Und Onkologie</i> , 2005 , 181, 468-74	4:3	56
188	Proton beam radiotherapy versus fractionated stereotactic radiotherapy for uveal melanomas: A comparative study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 63, 373-84	4	55
187	A linac-based stereotactic irradiation technique of uveal melanoma. <i>Radiotherapy and Oncology</i> , 2001 , 61, 49-56	5:3	55
186	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
185	In-vivo dosimetry for gynaecological brachytherapy: physical and clinical considerations. <i>Radiotherapy and Oncology</i> , 2005 , 77, 310-7	5:3	54
184	Photon beam quality variations of a flattening filter free linear accelerator. <i>Medical Physics</i> , 2010 , 37, 49-53	4:4	49
183	Advanced kernel methods vs. Monte Carlo-based dose calculation for high energy photon beams. <i>Radiotherapy and Oncology</i> , 2009 , 93, 645-53	5:3	48
182	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
181	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
180	Can protons improve SBRT for lung lesions? Dosimetric considerations. <i>Radiotherapy and Oncology</i> , 2008 , 88, 368-75	5:3	43
179	Uncertainties in assessment of the vaginal dose for intracavitary brachytherapy of cervical cancer using a tandem-ring applicator. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 67, 1451-9	4	43
178	Impact of a micromultileaf collimator on stereotactic radiotherapy of uveal melanoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003 , 55, 881-91	4	42
177	A methodology for TLD postal dosimetry audit of high-energy radiotherapy photon beams in non-reference conditions. <i>Radiotherapy and Oncology</i> , 2007 , 84, 67-74	5:3	41
176	Abdominal cancer during early childhood: a dosimetric comparison of proton beams to standard and advanced photon radiotherapy. <i>Radiotherapy and Oncology</i> , 2008 , 89, 141-9	5:3	40
175	Quality control in interstitial brachytherapy of the breast using pulsed dose rate: treatment planning and dose delivery with an Ir-192 afterloading system. <i>Radiotherapy and Oncology</i> , 2001 , 58, 43-51	5:3	40

174	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
173	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
172	Impact of IMRT and leaf width on stereotactic body radiotherapy of liver and lung lesions. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 61, 1572-81	4	37
171	New inverse planning technology for image-guided cervical cancer brachytherapy: description and evaluation within a clinical frame. <i>Radiotherapy and Oncology</i> , 2009 , 93, 331-40	5.3	35
170	Multiparametric [18F]Fluorodeoxyglucose/ [18F]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
169	MR-guided proton therapy: a review and a preview. <i>Radiation Oncology</i> , 2020 , 15, 129	4.2	34
168	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
167	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
166	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
165	Stochastic rank correlation: a robust merit function for 2D/3D registration of image data obtained at different energies. <i>Medical Physics</i> , 2009 , 36, 3420-8	4.4	33
164	Experimental determination of peripheral doses for different IMRT techniques delivered by a Siemens linear accelerator. <i>Strahlentherapie Und Onkologie</i> , 2008 , 184, 73-9	4.3	33
163	Automatic real-time surveillance of eye position and gating for stereotactic radiotherapy of uveal melanoma. <i>Medical Physics</i> , 2004 , 31, 3521-7	4.4	33
162	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
161	Dosimetric comparison of stereotactic body radiotherapy in different respiration conditions: a modeling study. <i>Radiotherapy and Oncology</i> , 2006 , 81, 97-104	5.3	31
160	Basic investigations on the performance of a normoxic polymer gel with tetrakis-hydroxy-methyl-phosphonium chloride as an oxygen scavenger: reproducibility, accuracy, stability, and dose rate dependence. <i>Medical Physics</i> , 2006 , 33, 2506-18	4.4	31
159	A noninvasive eye fixation and computer-aided eye monitoring system for linear accelerator-based stereotactic radiotherapy of uveal melanoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003 , 56, 1128-36	4	31
158	A widely tested model for head scatter influence on photon beam output. <i>Radiotherapy and Oncology</i> , 2003 , 67, 225-38	5.3	30
157	Normalized sensitometric curves for the verification of hybrid IMRT treatment plans with multiple energies. <i>Medical Physics</i> , 2003 , 30, 1142-50	4.4	29

156	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
155	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
154	Image-guided Adaptive Radiotherapy in Cervical Cancer. <i>Seminars in Radiation Oncology</i> , 2019 , 29, 284-298	3.8	27
153	Particle therapy in Europe. <i>Molecular Oncology</i> , 2020 , 14, 1492-1499	7.9	27
152	Experimental verification of a commercial Monte Carlo-based dose calculation module for high-energy photon beams. <i>Physics in Medicine and Biology</i> , 2009 , 54, 7363-77	3.8	27
151	Assessment of improved organ at risk sparing for advanced cervix carcinoma utilizing precision radiotherapy techniques. <i>Strahlentherapie Und Onkologie</i> , 2008 , 184, 586-91	4.3	27
150	PET based volume segmentation with emphasis on the iterative TrueX algorithm. <i>Zeitschrift Fur Medizinische Physik</i> , 2012 , 22, 29-39	7.6	26
149	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
148	Automated volumetric modulated arc therapy planning for whole pelvic prostate radiotherapy. <i>Strahlentherapie Und Onkologie</i> , 2018 , 194, 333-342	4.3	25
147	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
146	Feasibility of dominant intraprostatic lesion boosting using advanced photon-, proton- or brachytherapy. <i>Radiotherapy and Oncology</i> , 2015 , 117, 509-14	5.3	23
145	A pencil beam algorithm for helium ion beam therapy. <i>Medical Physics</i> , 2012 , 39, 6726-37	4.4	23
144	Investigations on parotid gland recovery after IMRT in head and neck tumor patients. <i>Strahlentherapie Und Onkologie</i> , 2010 , 186, 665-71	4.3	23
143	An intercomparison of 11 amorphous silicon EPIDs of the same type: implications for portal dosimetry. <i>Physics in Medicine and Biology</i> , 2006 , 51, 4189-200	3.8	23
142	Determination and application of the reference isodose length (RIL) for commercial endovascular brachytherapy devices. <i>Radiotherapy and Oncology</i> , 2002 , 64, 309-15	5.3	23
141	Build-up modification of commercial diodes for entrance dose measurements in 'higher energy' photon beams. <i>Radiotherapy and Oncology</i> , 1999 , 51, 249-56	5.3	23
140	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
139	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

138	Implementation and validation of portal dosimetry with an amorphous silicon EPID in the energy range from 6 to 25 MV. <i>Physics in Medicine and Biology</i> , 2007 , 52, N355-65	3.8	22
137	Inverse planning--a comparative intersystem and interpatient constraint study. <i>Strahlentherapie Und Onkologie</i> , 2006 , 182, 473-80	4.3	22
136	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
135	Evaluation of electromagnetic and nuclear scattering models in GATE/Geant4 for proton therapy. <i>Medical Physics</i> , 2019 , 46, 2444-2456	4.4	20
134	ART for head and neck patients: On the difference between VMAT and IMPT. <i>Acta Oncologica</i> , 2015 , 54, 1166-74	3.2	20
133	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
132	Clinical evaluation of monitor unit software and the application of action levels. <i>Radiotherapy and Oncology</i> , 2007 , 85, 306-15	5.3	20
131	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
130	Dosimetry auditing procedure with alanine dosimeters for light ion beam therapy. <i>Radiotherapy and Oncology</i> , 2013 , 108, 99-106	5.3	19
129	Automatic patient alignment system using 3D ultrasound. <i>Medical Physics</i> , 2013 , 40, 041714	4.4	19
128	Experimental determination of peripheral photon dose components for different IMRT techniques and linear accelerators. <i>Zeitschrift Fur Medizinische Physik</i> , 2009 , 19, 120-8	7.6	19
127	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
126	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
125	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
124	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
123	Using statistical measures for automated comparison of in-beam PET data. <i>Medical Physics</i> , 2012 , 39, 5874-81	4.4	18
122	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
121	VMAT techniques for lymph node-positive left sided breast cancer. <i>Zeitschrift Fur Medizinische Physik</i> , 2015 , 25, 104-11	7.6	17

120	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
119	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
118	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
117	PET image segmentation using a Gaussian mixture model and Markov random fields. <i>EJNMMI Physics</i> , 2015 , 2, 9	4.4	17
116	Patient-specific IMRT verification using independent fluence-based dose calculation software: experimental benchmarking and initial clinical experience. <i>Physics in Medicine and Biology</i> , 2007 , 52, 4981-92	3.8	17
115	Is mask-based stereotactic head-and-neck fixation as precise as stereotactic head fixation for precision radiotherapy?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006 , 66, S61-S66	4	17
114	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
113	The spatial resolution in dosimetry with normoxic polymer-gels investigated with the dose modulation transfer approach. <i>Medical Physics</i> , 2008 , 35, 1756-69	4.4	16
112	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
111	A pencil beam algorithm for magnetic resonance image-guided proton therapy. <i>Medical Physics</i> , 2018 , 45, 2195-2204	4.4	15
110	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
109	Registration of DRRs and portal images for verification of stereotactic body radiotherapy: a feasibility study in lung cancer treatment. <i>Physics in Medicine and Biology</i> , 2007 , 52, 2157-70	3.8	15
108	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
107	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
106	Multi-dimensional dosimetric verification of stereotactic radiotherapy for uveal melanoma using radiochromic EBT film. <i>Zeitschrift Fur Medizinische Physik</i> , 2008 , 18, 27-36	7.6	14
105	On empirical methods to determine scatter factors for irregular MLC shaped beams. <i>Medical Physics</i> , 2004 , 31, 2222-9	4.4	14
104	Impact of organ shape variations on margin concepts for cervix cancer ART. <i>Radiotherapy and Oncology</i> , 2016 , 120, 526-531	5.3	13
103	Imaging dose assessment for IGRT in particle beam therapy. <i>Radiotherapy and Oncology</i> , 2013 , 109, 409-13	5.3	13

102	Stereotactic photon beam irradiation of uveal melanoma: indications and experience at the University of Vienna since 1997. <i>Strahlentherapie Und Onkologie</i> , 2007 , 183 Spec No 2, 11-3	4.3	13
101	Optimizing LINAC-based stereotactic radiotherapy of uveal melanomas: 7 years clinical experience. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006 , 66, S47-S52	4	13
100	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
99	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
98	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
97	Evaluation of uncertainty predictions and dose output for model-based dose calculations for megavoltage photon beams. <i>Medical Physics</i> , 2006 , 33, 2548-56	4.4	12
96	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
95	Grand challenges for medical physics in radiation oncology. <i>Radiotherapy and Oncology</i> , 2020 , 153, 7-14	5.3	12
94	Advanced optimization methods for whole pelvic and local prostate external beam therapy. <i>Physica Medica</i> , 2016 , 32, 465-73	2.7	12
93	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
92	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
91	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
90	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
89	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
88	Energy dependence of radiochromic dosimetry films for use in radiotherapy verification. <i>Reports of Practical Oncology and Radiotherapy</i> , 2010 , 15, 40-6	1.5	10
87	The use of the source-skin distance measuring bridge indeed reduces skin teleangiectasia after interstitial boost in breast conserving therapy. <i>Radiotherapy and Oncology</i> , 2005 , 74, 323-30	5.3	10
86	Clinical quality assurance for endovascular brachytherapy devices. <i>Radiotherapy and Oncology</i> , 2004 , 71, 91-8	5.3	10
85	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

84	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
83	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
82	Attenuation correction of a flat table top for radiation therapy in hybrid PET/MR using CT- and Ge/Ga transmission scan-based Maps. <i>Physica Medica</i> , 2019 , 65, 76-83	2.7	8
81	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
80	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
79	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
78	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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