

Dietmar Georg

List of Publications by Year in descending order

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Version: 2024-02-01

243
papers

9,271
citations

36271

51
h-index

53190

85
g-index

244
all docs

244
docs citations

244
times ranked

6185
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 116-123.	0.3	649
2	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.	0.9	415
3	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, 901-911.	0.4	306
4	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, 624-630.	0.4	277
5	Current status and future perspective of flattening filter free photon beams. <i>Medical Physics</i> , 2011, 38, 1280-1293.	1.6	249
6	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, 653-657.	0.4	194
7	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, 147-154.	0.4	183
8	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, 356-362.	0.4	164
9	Dosimetric characterization of GafChromic EBT film and its implication on film dosimetry quality assurance. <i>Physics in Medicine and Biology</i> , 2007, 52, 4211-4225.	1.6	163
10	Dosimetric characteristics of 6 and 10MV unflattened photon beams. <i>Radiotherapy and Oncology</i> , 2009, 93, 141-146.	0.3	154
11	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, 1272-1278.	0.4	143
12	Flattening filter free beams in SBRT and IMRT: Dosimetric assessment of peripheral doses. <i>Zeitschrift Fur Medizinische Physik</i> , 2011, 21, 91-101.	0.6	126
13	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.	1.6	124
14	Feasibility of CBCT-based dose calculation: Comparative analysis of HU adjustment techniques. <i>Radiotherapy and Oncology</i> , 2012, 104, 249-256.	0.3	116
15	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, 173-180.	0.3	107
16	Dose-response characteristics of an amorphous silicon EPID. <i>Medical Physics</i> , 2005, 32, 3095-3105.	1.6	106
17	Adaptive Management of Cervical Cancer Radiotherapy. <i>Seminars in Radiation Oncology</i> , 2010, 20, 121-129.	1.0	104
18	LINAC based stereotactic radiotherapy of uveal melanoma: 4 years clinical experience. <i>Radiotherapy and Oncology</i> , 2003, 67, 199-206.	0.3	99

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19	Interpretation and evaluation of the \hat{I}^3 index and the \hat{I}^3 index angle for the verification of IMRT hybrid plans. <i>Physics in Medicine and Biology</i> , 2005, 50, 399-411.	1.6	99
20	Head-to-head comparison of PI-RADS v2 and PI-RADS v1. <i>European Journal of Radiology</i> , 2016, 85, 1125-1131.	1.2	88
21	ESTRO ACROP: Technology for precision small animal radiotherapy research: Optimal use and challenges. <i>Radiotherapy and Oncology</i> , 2018, 126, 471-478.	0.3	88
22	Factors influencing bowel sparing in intensity modulated whole pelvic radiotherapy for gynaecological malignancies. <i>Radiotherapy and Oncology</i> , 2006, 80, 19-26.	0.3	85
23	MR-guided proton therapy: a review and a preview. <i>Radiation Oncology</i> , 2020, 15, 129.	1.2	85
24	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.	0.4	84
25	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, 185-193.	0.3	83
26	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, 619-627.	0.4	79
27	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, 154-161.	0.3	78
28	Radiochromic film dosimetry: Considerations on precision and accuracy for EBT2 and EBT3 type films. <i>Zeitschrift Fur Medizinische Physik</i> , 2014, 24, 153-163.	0.6	76
29	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, 715-722.	0.4	75
30	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, 269-275.	0.3	74
31	Detector comparison for small field output factor measurements in flattening filter free photon beams. <i>Radiotherapy and Oncology</i> , 2013, 109, 356-360.	0.3	74
32	Monitoring tumor motion by real time 2D/3D registration during radiotherapy. <i>Radiotherapy and Oncology</i> , 2012, 102, 274-280.	0.3	71
33	Comparative Treatment Planning on Localized Prostate Carcinoma. <i>Strahlentherapie Und Onkologie</i> , 2005, 181, 448-455.	1.0	70
34	Image quality and stability of image-guided radiotherapy (IGRT) devices: A comparative study. <i>Radiotherapy and Oncology</i> , 2009, 93, 1-7.	0.3	70
35	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.	1.2	70
36	Dosimetric Quality Assurance for Intensity-Modulated Radiotherapy. <i>Strahlentherapie Und Onkologie</i> , 2005, 181, 468-474.	1.0	69

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37	Evaluating repetitive ¹⁸ F-fluoroazomycin-araboside (¹⁸ FAZA) PET in the setting of MRI guided adaptive radiotherapy in cervical cancer. <i>Acta Oncologica</i> , 2010, 49, 941-947.	0.8	68
38	Recommendations of the EVA GEC ESTRO Working Group: prescribing, recording, and reporting in endovascular brachytherapy. Quality assurance, equipment, personnel and education. <i>Radiotherapy and Oncology</i> , 2001, 59, 339-360.	0.3	67
39	Proton beam radiotherapy versus fractionated stereotactic radiotherapy for uveal melanomas: A comparative study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005, 63, 373-384.	0.4	65
40	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.	1.6	63
41	In-vivo dosimetry for gynaecological brachytherapy: Physical and clinical considerations. <i>Radiotherapy and Oncology</i> , 2005, 77, 310-317.	0.3	63
42	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, 2868-2877.	1.6	62
43	Characteristic of EBT-XD and EBT3 radiochromic film dosimetry for photon and proton beams. <i>Physics in Medicine and Biology</i> , 2018, 63, 065007.	1.6	62
44	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.	0.3	62
45	A linac-based stereotactic irradiation technique of uveal melanoma. <i>Radiotherapy and Oncology</i> , 2001, 61, 49-56.	0.3	58
46	A Monte Carlo study of a flattening filter-free linear accelerator verified with measurements. <i>Physics in Medicine and Biology</i> , 2010, 55, 7333-7344.	1.6	58
47	Photon beam quality variations of a flattening filter free linear accelerator. <i>Medical Physics</i> , 2010, 37, 49-53.	1.6	57
48	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.	0.3	54
49	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, 1451-1459.	0.4	54
50	Can protons improve SBRT for lung lesions? Dosimetric considerations. <i>Radiotherapy and Oncology</i> , 2008, 88, 368-375.	0.3	54
51	Advanced kernel methods vs. Monte Carlo-based dose calculation for high energy photon beams. <i>Radiotherapy and Oncology</i> , 2009, 93, 645-653.	0.3	54
52	Abdominal cancer during early childhood: A dosimetric comparison of proton beams to standard and advanced photon radiotherapy. <i>Radiotherapy and Oncology</i> , 2008, 89, 141-149.	0.3	52
53	The technological basis for adaptive ion beam therapy at MedAustron: Status and outlook. <i>Zeitschrift Fur Medizinische Physik</i> , 2018, 28, 196-210.	0.6	51
54	Latent space manipulation for high-resolution medical image synthesis via the StyleGAN. <i>Zeitschrift Fur Medizinische Physik</i> , 2020, 30, 305-314.	0.6	50

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55	Particle therapy in Europe. <i>Molecular Oncology</i> , 2020, 14, 1492-1499.	2.1	50
56	Report of AAPM Task Group 219 on independent calculation-based dose/MU verification for IMRT. <i>Medical Physics</i> , 2021, 48, e808-e829.	1.6	50
57	Impact of a micromultileaf collimator on stereotactic radiotherapy of uveal melanoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003, 55, 881-891.	0.4	48
58	Can particle beam therapy be improved using helium ions? – a planning study focusing on pediatric patients. <i>Acta Oncologica</i> , 2016, 55, 751-759.	0.8	47
59	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.	1.6	47
60	Image-guided Adaptive Radiotherapy in Cervical Cancer. <i>Seminars in Radiation Oncology</i> , 2019, 29, 284-298.	1.0	47
61	IGRT induced dose burden for a variety of imaging protocols at two different anatomical sites. <i>Radiotherapy and Oncology</i> , 2012, 102, 355-363.	0.3	46
62	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.	1.1	45
63	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.	0.3	43
64	New inverse planning technology for image-guided cervical cancer brachytherapy: Description and evaluation within a clinical frame. <i>Radiotherapy and Oncology</i> , 2009, 93, 331-340.	0.3	43
65	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, 1572-1581.	0.4	42
66	Stochastic rank correlation: A robust merit function for 2D/3D registration of image data obtained at different energies. <i>Medical Physics</i> , 2009, 36, 3420-3428.	1.6	42
67	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.	1.6	41
68	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-e272.	0.4	39
69	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.	0.4	39
70	Evaluation of electromagnetic and nuclear scattering models in GATE/Geant4 for proton therapy. <i>Medical Physics</i> , 2019, 46, 2444-2456.	1.6	39
71	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, 1128-1136.	0.4	37
72	Automatic real-time surveillance of eye position and gating for stereotactic radiotherapy of uveal melanoma. <i>Medical Physics</i> , 2004, 31, 3521-3527.	1.6	37

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73	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, 2506-2518.	1.6	37
74	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.	1.2	37
75	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, 437-441.	0.3	36
76	Dosimetric comparison of stereotactic body radiotherapy in different respiration conditions: A modeling study. <i>Radiotherapy and Oncology</i> , 2006, 81, 97-104.	0.3	35
77	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, 121-128.	0.4	35
78	Experimental Determination of Peripheral Doses for Different IMRT Techniques Delivered by a Siemens Linear Accelerator. <i>Strahlentherapie Und Onkologie</i> , 2008, 184, 73-79.	1.0	34
79	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, 755-761.	0.4	33
80	Grand challenges for medical physics in radiation oncology. <i>Radiotherapy and Oncology</i> , 2020, 153, 7-14.	0.3	33
81	Normalized sensitometric curves for the verification of hybrid IMRT treatment plans with multiple energies. <i>Medical Physics</i> , 2003, 30, 1142-1150.	1.6	32
82	Dosimetric challenges of small animal irradiation with a commercial X-ray unit. <i>Zeitschrift Fur Medizinische Physik</i> , 2014, 24, 363-372.	0.6	32
83	Automated volumetric modulated arc therapy planning for whole pelvic prostate radiotherapy. <i>Strahlentherapie Und Onkologie</i> , 2018, 194, 333-342.	1.0	32
84	Assessment of Improved Organ at Risk Sparing for Advanced Cervix Carcinoma Utilizing Precision Radiotherapy Techniques. <i>Strahlentherapie Und Onkologie</i> , 2008, 184, 586-591.	1.0	31
85	ART for head and neck patients: On the difference between VMAT and IMPT. <i>Acta Oncologica</i> , 2015, 54, 1166-1174.	0.8	31
86	Build-up modification of commercial diodes for entrance dose measurements in "higher energy" photon beams. <i>Radiotherapy and Oncology</i> , 1999, 51, 249-256.	0.3	30
87	A widely tested model for head scatter influence on photon beam output. <i>Radiotherapy and Oncology</i> , 2003, 67, 225-238.	0.3	30
88	Radiation therapy with unflattened photon beams: Dosimetric accuracy of advanced dose calculation algorithms. <i>Radiotherapy and Oncology</i> , 2011, 100, 417-423.	0.3	30
89	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.	0.6	28
90	Clinical evaluation of monitor unit software and the application of action levels. <i>Radiotherapy and Oncology</i> , 2007, 85, 306-315.	0.3	27

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91	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, 7363-7377.	1.6	27
92	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, 792-798.	1.0	27
93	PET based volume segmentation with emphasis on the iterative TrueX algorithm. <i>Zeitschrift Fur Medizinische Physik</i> , 2012, 22, 29-39.	0.6	27
94	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.	1.6	27
95	Investigations on Parotid Gland Recovery after IMRT in Head and Neck Tumor Patients. <i>Strahlentherapie Und Onkologie</i> , 2010, 186, 665-671.	1.0	26
96	Real-time 2D/3D registration using kV-MV image pairs for tumor motion tracking in image guided radiotherapy. <i>Acta Oncologica</i> , 2013, 52, 1464-1471.	0.8	26
97	PET image segmentation using a Gaussian mixture model and Markov random fields. <i>EJNMMI Physics</i> , 2015, 2, 9.	1.3	26
98	Determination and application of the reference isodose length (RIL) for commercial endovascular brachytherapy devices. <i>Radiotherapy and Oncology</i> , 2002, 64, 309-315.	0.3	25
99	A pencil beam algorithm for helium ion beam therapy. <i>Medical Physics</i> , 2012, 39, 6726-6737.	1.6	25
100	Feasibility of dominant intraprostatic lesion boosting using advanced photon-, proton- or brachytherapy. <i>Radiotherapy and Oncology</i> , 2015, 117, 509-514.	0.3	25
101	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.	0.3	25
102	A pencil beam algorithm for magnetic resonance image-guided proton therapy. <i>Medical Physics</i> , 2018, 45, 2195-2204.	1.6	25
103	An intercomparison of 11 amorphous silicon EPIDs of the same type: implications for portal dosimetry. <i>Physics in Medicine and Biology</i> , 2006, 51, 4189-4200.	1.6	24
104	Physics Contributions Original article A detailed dosimetric comparison between manual and inverse plans in HDR intracavitary/interstitial cervical cancer brachytherapy. <i>Journal of Contemporary Brachytherapy</i> , 2010, 4, 163-170.	0.4	24
105	A quantitative comparison of the performance of three deformable registration algorithms in radiotherapy. <i>Zeitschrift Fur Medizinische Physik</i> , 2013, 23, 279-290.	0.6	24
106	VMAT techniques for lymph node-positive left sided breast cancer. <i>Zeitschrift Fur Medizinische Physik</i> , 2015, 25, 104-111.	0.6	24
107	Inverse Planning – a Comparative Intersystem and Interpatient Constraint Study. <i>Strahlentherapie Und Onkologie</i> , 2006, 182, 473-480.	1.0	23
108	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, 4981-4992.	1.6	23

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109	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, 342-347.	0.3	23
110	Automatic patient alignment system using 3D ultrasound. <i>Medical Physics</i> , 2013, 40, 041714.	1.6	23
111	Impact of organ shape variations on margin concepts for cervix cancer ART. <i>Radiotherapy and Oncology</i> , 2016, 120, 526-531.	0.3	23
112	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.	1.6	23
113	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-N365.	1.6	22
114	Clinical Comparison of Dose Calculation Using the Enhanced Collapsed Cone Algorithm vs. a New Monte Carlo Algorithm. <i>Strahlentherapie Und Onkologie</i> , 2011, 187, 433-441.	1.0	22
115	Comparison of basic features of proton and helium ion pencil beams in water using GATE. <i>Zeitschrift Fur Medizinische Physik</i> , 2012, 22, 170-178.	0.6	22
116	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, 407-411.	0.3	22
117	Dosimetry auditing procedure with alanine dosimeters for light ion beam therapy. <i>Radiotherapy and Oncology</i> , 2013, 108, 99-106.	0.3	21
118	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, 1717.	2.0	21
119	Association between pathology and texture features of multi parametric MRI of the prostate. <i>Physics in Medicine and Biology</i> , 2017, 62, 7833-7854.	1.6	20
120	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.	1.6	20
121	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.	0.4	19
122	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.	0.4	19
123	Experimental determination of peripheral photon dose components for different IMRT techniques and linear accelerators. <i>Zeitschrift Fur Medizinische Physik</i> , 2009, 19, 120-128.	0.6	19
124	Using statistical measures for automated comparison of in-beam PET data. <i>Medical Physics</i> , 2012, 39, 5874-5881.	1.6	19
125	Imaging dose assessment for IGRT in particle beam therapy. <i>Radiotherapy and Oncology</i> , 2013, 109, 409-413.	0.3	19
126	Implementation of spot scanning dose optimization and dose calculation for helium ions in Hyperion. <i>Medical Physics</i> , 2015, 42, 5157-5166.	1.6	19

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127	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.	0.8	19
128	The influence of errors in small field dosimetry on the dosimetric accuracy of treatment plans. <i>Acta Oncologica</i> , 2020, 59, 511-517.	0.8	19
129	Investigating the impact of alpha/beta and LET _d on relative biological effectiveness in scanned proton beams: An <i>in vitro</i> study based on human cell lines. <i>Medical Physics</i> , 2020, 47, 3691-3702.	1.6	19
130	Technical Note: Dose prediction for radiation therapy using feature-based losses and One Cycle Learning. <i>Medical Physics</i> , 2021, 48, 5562-5566.	1.6	19
131	The spatial resolution in dosimetry with normoxic polymer gels investigated with the dose modulation transfer approach. <i>Medical Physics</i> , 2008, 35, 1756-1769.	1.6	18
132	Optimization for customized trajectories in cone beam computed tomography. <i>Medical Physics</i> , 2020, 47, 4786-4799.	1.6	18
133	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, 734-747.	1.6	17
134	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.	0.6	17
135	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, 2157-2170.	1.6	16
136	Stereotactic Photon Beam Irradiation of Uveal Melanoma: Indications and Experience at the University of Vienna since 1997. <i>Strahlentherapie Und Onkologie</i> , 2007, 183, 11-13.	1.0	16
137	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, 570-579.	0.8	16
138	Novel radiotherapy techniques for involved-field and involved-node treatment of mediastinal Hodgkin lymphoma. <i>Strahlentherapie Und Onkologie</i> , 2014, 190, 864-871.	1.0	16
139	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, 909-916.	0.8	16
140	Multiparametric MRI of the prostate at 3T: limited value of 3D 1H-MR spectroscopy as a fourth parameter. <i>World Journal of Urology</i> , 2016, 34, 649-656.	1.2	16
141	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.	1.3	16
142	On empirical methods to determine scatter factors for irregular MLC shaped beams. <i>Medical Physics</i> , 2004, 31, 2222-2229.	1.6	15
143	Evaluation of uncertainty predictions and dose output for model-based dose calculations for megavoltage photon beams. <i>Medical Physics</i> , 2006, 33, 2548-2556.	1.6	15
144	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.	0.4	15

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