

Christoph Bert

List of Publications by Year in descending order

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Version: 2024-02-01

172
papers

3,641
citations

147801

31
h-index

155660

55
g-index

174
all docs

174
docs citations

174
times ranked

2474
citing authors

#	ARTICLE	IF	CITATIONS
1	Motion in radiotherapy: particle therapy. <i>Physics in Medicine and Biology</i> , 2011, 56, R113-R144.	3.0	295
2	Quantification of interplay effects of scanned particle beams and moving targets. <i>Physics in Medicine and Biology</i> , 2008, 53, 2253-2265.	3.0	223
3	A phantom evaluation of a stereo-vision surface imaging system for radiotherapy patient setup. <i>Medical Physics</i> , 2005, 32, 2753-2762.	3.0	179
4	Clinical experience with a 3D surface patient setup system for alignment of partial-breast irradiation patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 64, 1265-1274.	0.8	169
5	Respiratory motion management in particle therapy. <i>Medical Physics</i> , 2010, 37, 449-460.	3.0	127
6	Target motion tracking with a scanned particle beam. <i>Medical Physics</i> , 2007, 34, 4768-4771.	3.0	115
7	4D treatment planning for scanned ion beams. <i>Radiation Oncology</i> , 2007, 2, 24.	2.7	105
8	Feasibility Study on Cardiac Arrhythmia Ablation Using High-Energy Heavy Ion Beams. <i>Scientific Reports</i> , 2016, 6, 38895.	3.3	92
9	Hypofractionated Irradiation Has Immune Stimulatory Potential and Induces a Timely Restricted Infiltration of Immune Cells in Colon Cancer Tumors. <i>Frontiers in Immunology</i> , 2017, 8, 231.	4.8	87
10	Quality assurance guidelines for superficial hyperthermia clinical trials: I. Clinical requirements. <i>International Journal of Hyperthermia</i> , 2017, 33, 471-482.	2.5	86
11	Gated Irradiation With Scanned Particle Beams. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 73, 1270-1275.	0.8	75
12	Recent advances in Surface Guided Radiation Therapy. <i>Radiation Oncology</i> , 2020, 15, 187.	2.7	71
13	Motion mitigation in intensity modulated particle therapy by internal target volumes covering range changes. <i>Medical Physics</i> , 2012, 39, 6004-6013.	3.0	70
14	Speed and accuracy of a beam tracking system for treatment of moving targets with scanned ion beams. <i>Physics in Medicine and Biology</i> , 2009, 54, 4849-4862.	3.0	69
15	Simulations to design an online motion compensation system for scanned particle beams. <i>Physics in Medicine and Biology</i> , 2006, 51, 3517-3531.	3.0	66
16	Motion compensation with a scanned ion beam: a technical feasibility study. <i>Radiation Oncology</i> , 2008, 3, 34.	2.7	63
17	Upgrade and benchmarking of a 4D treatment planning system for scanned ion beam therapy. <i>Medical Physics</i> , 2013, 40, 051722.	3.0	58
18	Particle therapy for noncancer diseases. <i>Medical Physics</i> , 2012, 39, 1716-1727.	3.0	50

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19	A breathing thorax phantom with independently programmable 6D tumour motion for dosimetric measurements in radiation therapy. <i>Physics in Medicine and Biology</i> , 2012, 57, 2235-2250.	3.0	47
20	Four-Dimensional Patient Dose Reconstruction for Scanned Ion Beam Therapy of Moving Liver Tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 89, 175-181.	0.8	43
21	Magnetic resonance imaging for brain stereotactic radiotherapy. <i>Strahlentherapie Und Onkologie</i> , 2020, 196, 444-456.	2.0	43
22	Atrioventricular Node Ablation in Langendorff-Perfused Porcine Hearts Using Carbon Ion Particle Therapy. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015, 8, 429-438.	4.8	41
23	A 4D-optimization concept for scanned ion beam therapy. <i>Radiotherapy and Oncology</i> , 2013, 109, 419-424.	0.6	38
24	Dosimetric precision of an ion beam tracking system. <i>Radiation Oncology</i> , 2010, 5, 61.	2.7	36
25	Required transition from research to clinical application: Report on the 4D treatment planning workshops 2014 and 2015. <i>Physica Medica</i> , 2016, 32, 874-882.	0.7	34
26	Clinical implementations of 4D pencil beam scanned particle therapy: Report on the 4D treatment planning workshop 2016 and 2017. <i>Physica Medica</i> , 2018, 54, 121-130.	0.7	34
27	4D optimization of scanned ion beam tracking therapy for moving tumors. <i>Physics in Medicine and Biology</i> , 2014, 59, 3431-3452.	3.0	32
28	Challenges of radiotherapy: Report on the 4D treatment planning workshop 2013. <i>Physica Medica</i> , 2014, 30, 809-815.	0.7	32
29	Ultrasound tracking for intra-fractional motion compensation in radiation therapy. <i>Physica Medica</i> , 2014, 30, 578-582.	0.7	32
30	DEGRO practical guidelines for radiotherapy of non-malignant disorders. <i>Strahlentherapie Und Onkologie</i> , 2015, 191, 701-709.	2.0	32
31	ESTRO-ACROP guideline on surface guided radiation therapy. <i>Radiotherapy and Oncology</i> , 2022, 173, 188-196.	0.6	32
32	Experimental verification of a real-time compensation functionality for dose changes due to target motion in scanned particle therapy. <i>Medical Physics</i> , 2011, 38, 5448-5458.	3.0	31
33	Residual motion mitigation in scanned carbon ion beam therapy of liver tumors using enlarged pencil beam overlap. <i>Radiotherapy and Oncology</i> , 2014, 113, 290-295.	0.6	31
34	Electromagnetic tracking (<scp>EMT</scp>) technology for improved treatment quality assurance in interstitial brachytherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 211-222.	1.9	31
35	Ion beam tracking using ultrasound motion detection. <i>Medical Physics</i> , 2014, 41, 041708.	3.0	30
36	AAPM Task Group Report 290: Respiratory motion management for particle therapy. <i>Medical Physics</i> , 2022, 49, .	3.0	30

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37	Electromagnetic tracking for treatment verification in interstitial brachytherapy. Journal of Contemporary Brachytherapy, 2016, 5, 448-453.	0.9	29
38	FSRT vs. SRS in Brain Metastasesâ€”Differences in Local Control and Radiation Necrosisâ€”A Volumetric Study. Frontiers in Oncology, 2020, 10, 559193.	2.8	29
39	4D inâ€beam positron emission tomography for verification of motionâ€compensated ion beam therapy. Medical Physics, 2009, 36, 4230-4243.	3.0	28
40	Automation of radiation treatment planning. Strahlentherapie Und Onkologie, 2017, 193, 656-665.	2.0	26
41	Treatment Planning Studies in Patient Data With Scanned Carbon Ion Beams for Catheterâ€Free Ablation of Atrial Fibrillation. Journal of Cardiovascular Electrophysiology, 2016, 27, 335-344.	1.7	25
42	Multigating, a 4D Optimized Beam Tracking in Scanned Ion Beam Therapy. Technology in Cancer Research and Treatment, 2014, 13, 497-504.	1.9	20
43	Computed tomography using the Medipix1 chip. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 509, 240-250.	1.6	18
44	Tumor tracking based on correlation models in scanned ion beam therapy: an experimental study. Physics in Medicine and Biology, 2013, 58, 4659-4678.	3.0	18
45	Experimental verification of a 4D MLEM reconstruction algorithm used for in-beam PET measurements in particle therapy. Physics in Medicine and Biology, 2013, 58, 5085-5111.	3.0	18
46	Examination of a deformable motion model for respiratory movements and 4D dose calculations using different driving surrogates. Medical Physics, 2017, 44, 2066-2076.	3.0	18
47	Robustness of target dose coverage to motion uncertainties for scanned carbon ion beam tracking therapy of moving tumors. Physics in Medicine and Biology, 2015, 60, 1717-1740.	3.0	17
48	Ion therapy of prostate cancer: daily rectal dose reduction by application of spacer gel. Radiation Oncology, 2015, 10, 56.	2.7	17
49	Accumulation of the delivered treatment dose in volumetric modulated arc therapy with breathâ€hold for pancreatic cancer patients based on daily cone beam computed tomography images with limited fieldâ€ofâ€view. Medical Physics, 2019, 46, 2969-2977.	3.0	17
50	Novel technique for high-precision stereotactic irradiation of mouse brains. Strahlentherapie Und Onkologie, 2016, 192, 806-814.	2.0	16
51	Noninvasive cardiac arrhythmia ablation with particle beams. Medical Physics, 2018, 45, e1024-e1035.	3.0	16
52	Technical evaluation of the coneâ€beam computed tomography imaging performance of a novel, mobile, gantryâ€based Xâ€ray system for brachytherapy. Journal of Applied Clinical Medical Physics, 2022, 23, .	1.9	16
53	Assessment of the implant geometry in fractionated interstitial HDR breast brachytherapy using an electromagnetic tracking system. Brachytherapy, 2018, 17, 94-102.	0.5	15
54	Scanned carbon beam irradiation of moving films: comparison of measured and calculated response. Radiation Oncology, 2012, 7, 55.	2.7	14

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55	Assessment of Uncertainties in Treatment Planning for Scanned Ion Beam Therapy of Moving Tumors. International Journal of Radiation Oncology Biology Physics, 2013, 85, 528-535.	0.8	14
56	Advances in 4D Treatment Planning for Scanned Particle Beam Therapy – Report of Dedicated Workshops. Technology in Cancer Research and Treatment, 2014, 13, 485-495.	1.9	14
57	Implementation of an Analytical Model for Leakage Neutron Equivalent Dose in a Proton Radiotherapy Planning System. Cancers, 2015, 7, 427-438.	3.7	14
58	Effect of VERO pan-tilt motion on the dose distribution. Journal of Applied Clinical Medical Physics, 2017, 18, 144-154.	1.9	14
59	ECG-based 4D-dose reconstruction of cardiac arrhythmia ablation with carbon ion beams: application in a porcine model. Physics in Medicine and Biology, 2017, 62, 6869-6883.	3.0	14
60	Introduction of a hybrid treatment delivery system used for quality assurance in multi-catheter interstitial brachytherapy. Physics in Medicine and Biology, 2018, 63, 095008.	3.0	14
61	Preclinical investigations towards the first spacer gel application in prostate cancer treatment during particle therapy at HIT. Radiation Oncology, 2013, 8, 134.	2.7	13
62	Gating delays for two respiratory motion sensors in scanned particle radiation therapy. Physics in Medicine and Biology, 2013, 58, N295-N302.	3.0	13
63	Commissioning of an Integrated Platform for Time-Resolved Treatment Delivery in Scanned Ion Beam Therapy by Means of Optical Motion Monitoring. Technology in Cancer Research and Treatment, 2014, 13, 517-528.	1.9	13
64	Treatment of arrhythmias by external charged particle beams: a Langendorff feasibility study. Biomedizinische Technik, 2015, 60, 147-56.	0.8	13
65	Implementation of a dedicated 1.5T MR scanner for radiotherapy treatment planning featuring a novel high-channel coil setup for brain imaging in treatment position. Strahlentherapie Und Onkologie, 2021, 197, 246-256.	2.0	13
66	Volumetric Regression in Brain Metastases After Stereotactic Radiotherapy: Time Course, Predictors, and Significance. Frontiers in Oncology, 2020, 10, 590980.	2.8	13
67	Ion-optical studies for a range adaptation method in ion beam therapy using a static wedge degrader combined with magnetic beam deflection. Physics in Medicine and Biology, 2010, 55, 3499-3513.	3.0	12
68	Calculation and experimental verification of the RBE-weighted dose for scanned ion beams in the presence of target motion. Physics in Medicine and Biology, 2011, 56, 7337-7351.	3.0	12
69	Particle radiosurgery: A new frontier of physics in medicine. Physica Medica, 2014, 30, 535-538.	0.7	12
70	4D particle therapy PET simulation for moving targets irradiated with scanned ion beams. Physics in Medicine and Biology, 2013, 58, 513-533.	3.0	11
71	Infrared camera based thermometry for quality assurance of superficial hyperthermia applicators. Physics in Medicine and Biology, 2016, 61, 2646-2664.	3.0	11
72	Real-Time Respiratory Motion Analysis Using 4-D Shape Priors. IEEE Transactions on Biomedical Engineering, 2016, 63, 485-495.	4.2	11

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73	The 3rd ESTRO-EFOMP core curriculum for medical physics experts in radiotherapy. <i>Radiotherapy and Oncology</i> , 2022, 170, 89-94.	0.6	11
74	Precision and Uncertainties in Proton Therapy for Moving Targets. <i>Series in Medical Physics and Biomedical Engineering</i> , 2011, , 435-460.	0.1	10
75	Scanned ion beam therapy for prostate carcinoma. <i>Strahlentherapie Und Onkologie</i> , 2016, 192, 118-126.	2.0	10
76	Management of organ motion in scanned ion beam therapy. <i>Radiation Oncology</i> , 2017, 12, 170.	2.7	10
77	Error detection using an electromagnetic tracking system in multi-catheter breast interstitial brachytherapy. <i>Physics in Medicine and Biology</i> , 2019, 64, 205018.	3.0	10
78	Impact of fractionation and number of fields on dose homogeneity for intra-fractionally moving lung tumors using scanned carbon ion treatment. <i>Radiotherapy and Oncology</i> , 2016, 118, 498-503.	0.6	9
79	On the use of multi-dimensional scaling and electromagnetic tracking in high dose rate brachytherapy. <i>Physics in Medicine and Biology</i> , 2017, 62, 7959-7980.	3.0	9
80	Adaptive radiotherapy and the dosimetric impact of inter- and intrafractional motion on the planning target volume for prostate cancer patients. <i>Strahlentherapie Und Onkologie</i> , 2020, 196, 647-656.	2.0	9
81	Comparison of intelligent 4D CT sequence scanning and conventional spiral 4D CT: a first comprehensive phantom study. <i>Physics in Medicine and Biology</i> , 2021, 66, 015004.	3.0	9
82	QAMaster: A new software framework for phantom-based computed tomography quality assurance. <i>Journal of Applied Clinical Medical Physics</i> , 2022, 23, e13588.	1.9	9
83	First clinical experience with a novel, mobile cone-beam CT system for treatment quality assurance in brachytherapy. <i>Strahlentherapie Und Onkologie</i> , 2022, 198, 573-581.	2.0	9
84	Region of interest optimization for surface guided radiation therapy of breast cancer. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 152-160.	1.9	8
85	First clinical evaluation of breathing controlled four-dimensional computed tomography imaging. <i>Physics and Imaging in Radiation Oncology</i> , 2021, 20, 56-61.	2.9	8
86	First Steps Toward Ultrasound-Based Motion Compensation for Imaging and Therapy: Calibration with an Optical System and 4D PET Imaging. <i>Frontiers in Oncology</i> , 2015, 5, 258.	2.8	7
87	On the use of particle filters for electromagnetic tracking in high dose rate brachytherapy. <i>Physics in Medicine and Biology</i> , 2017, 62, 7617-7640.	3.0	7
88	Dose calculation and verification of the Vero gimbal tracking treatment delivery. <i>Physics in Medicine and Biology</i> , 2018, 63, 035043.	3.0	7
89	Performance of gimbal-based dynamic tumor tracking for treating liver carcinoma. <i>Radiation Oncology</i> , 2018, 13, 242.	2.7	7
90	Is adaptive treatment planning in multi-catheter interstitial breast brachytherapy necessary?. <i>Radiotherapy and Oncology</i> , 2019, 141, 304-311.	0.6	7

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91	Paragangliomas of the Head and Neck. American Journal of Clinical Oncology: Cancer Clinical Trials, 2019, 42, 818-823.	1.3	7
92	Estimation of inter-fractional variations in interstitial multi-catheter breast brachytherapy using a hybrid treatment delivery system. Radiotherapy and Oncology, 2019, 141, 312-320.	0.6	7
93	Performance of Markerless Tracking for Gimbaled Dynamic Tumor Tracking. Zeitschrift Fur Medizinische Physik, 2020, 30, 96-103.	1.5	7
94	Prerequisites for the clinical implementation of a markerless SGRT-only workflow for the treatment of breast cancer patients. Strahlentherapie Und Onkologie, 2023, 199, 22-29.	2.0	7
95	Development and performance evaluation of a dynamic phantom for biological dosimetry of moving targets. Physics in Medicine and Biology, 2010, 55, 2997-3009.	3.0	6
96	Fast optimization and dose calculation in scanned ion beam therapy. Medical Physics, 2014, 41, 071703.	3.0	6
97	Treatment Parameters Optimization to Compensate for Interfractional Anatomy Variability and Intrafractional Tumor Motion. Frontiers in Oncology, 2015, 5, 291.	2.8	6
98	Experimental investigation of irregular motion impact on 4D PET-based particle therapy monitoring. Physics in Medicine and Biology, 2016, 61, N20-N34.	3.0	6
99	Regional deep hyperthermia: impact of observer variability in CT-based manual tissue segmentation on simulated temperature distribution. Physics in Medicine and Biology, 2017, 62, 4479-4495.	3.0	6
100	A kernel-based framework for intra-fractional respiratory motion estimation in radiation therapy. , 2017, , .		6
101	Optimization of Single Voxel MR Spectroscopy Sequence Parameters and Data Analysis Methods for Thermometry in Deep Hyperthermia Treatments. Technology in Cancer Research and Treatment, 2017, 16, 470-481.	1.9	6
102	Advanced Multimodal Methods for Cranial Pseudo-CT Generation Validated by IMRT and VMAT Radiation Therapy Plans. International Journal of Radiation Oncology Biology Physics, 2018, 102, 792-800.	0.8	6
103	Union of light ion therapy centers in Europe (ULICE EC FP7) – Objectives and achievements of joint research activities. Radiotherapy and Oncology, 2018, 128, 83-100.	0.6	6
104	On PTV definition for glioblastoma based on fiber tracking of diffusion tensor imaging data. PLoS ONE, 2020, 15, e0227146.	2.5	6
105	Evaluation of the influence of susceptibility-induced magnetic field distortions on the precision of contouring intracranial organs at risk for stereotactic radiosurgery. Physics and Imaging in Radiation Oncology, 2020, 15, 91-97.	2.9	6
106	Education, training and registration of Medical Physics Experts across Europe. Physica Medica, 2021, 85, 129-136.	0.7	6
107	Quality assurance of a breathing controlled four-dimensional computed tomography algorithm. Physics and Imaging in Radiation Oncology, 2022, 23, 85-91.	2.9	6
108	Impact of inter- and intra-observer variabilities of catheter reconstruction on multi-catheter interstitial brachytherapy of breast cancer patients. Radiotherapy and Oncology, 2019, 135, 25-32.	0.6	5

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109	Penile bulb sparing in prostate cancer radiotherapy. <i>Strahlentherapie Und Onkologie</i> , 2019, 195, 153-163.	2.0	5
110	The Distribution of Pelvic Nodal Metastases in Prostate Cancer Reveals Potential to Advance and Personalize Pelvic Radiotherapy. <i>Frontiers in Oncology</i> , 2020, 10, 590722.	2.8	5
111	129 FIRST STEPS TOWARDS 4D OFFLINE PET-BASED TREATMENT VERIFICATION AT THE HEIDELBERG ION BEAM THERAPY CENTER. <i>Radiotherapy and Oncology</i> , 2012, 102, S55-S56.	0.6	4
112	Prediction methods for synchronization of scanned ion beam tracking. <i>Physica Medica</i> , 2013, 29, 639-643.	0.7	4
113	Quantification of an External Motion Surrogate for Quality Assurance in Lung Cancer Radiation Therapy. <i>BioMed Research International</i> , 2014, 2014, 1-8.	1.9	4
114	Technical Note: Radiation properties of tissue- and water-equivalent materials formulated using the stoichiometric analysis method in charged particle therapy. <i>Medical Physics</i> , 2015, 43, 308-313.	3.0	4
115	4D offline PET-based treatment verification in scanned ion beam therapy: a phantom study. <i>Physics in Medicine and Biology</i> , 2015, 60, 6227-6246.	3.0	4
116	Dosimetric accuracy of the cone-beam CT-based treatment planning of the Vero system: a phantom study. <i>Journal of Applied Clinical Medical Physics</i> , 2016, 17, 106-113.	1.9	4
117	Assessment of the Implant Geometry in Fractionated Interstitial HDR Breast Brachytherapy. <i>Brachytherapy</i> , 2016, 15, S39-S40.	0.5	4
118	Influence of patient mispositioning on SAR distribution and simulated temperature in regional deep hyperthermia. <i>Physics in Medicine and Biology</i> , 2017, 62, 4929-4945.	3.0	4
119	Immobilization for carbon ion beam ablation of cardiac structures in a porcine model. <i>Physica Medica</i> , 2017, 43, 134-139.	0.7	4
120	Influence and compensation of patient motion in electromagnetic tracking based quality assurance in interstitial brachytherapy of the breast. <i>Medical Physics</i> , 2022, 49, 2652-2662.	3.0	4
121	Low- vs. high-dose radiotherapy in Graves' ophthalmopathy: a retrospective comparison of long-term results. <i>Strahlentherapie Und Onkologie</i> , 2021, 197, 885-894.	2.0	3
122	SU-E-T-334: Clinical Implementation of Gating and Dose Verification with Scanned Ion Beams at HIT. <i>Medical Physics</i> , 2012, 39, 3780-3781.	3.0	3
123	TU-A-BRA-08: Integration of Optical Tracking for Organ Motion Compensation in Scanned Ion-Beam Therapy. <i>Medical Physics</i> , 2012, 39, 3889-3889.	3.0	3
124	Transient Enlargement in Meningiomas Treated with Stereotactic Radiotherapy. <i>Cancers</i> , 2022, 14, 1547.	3.7	3
125	A novel concept for CT with fixed anodes (FACT): Medical imaging based on the feasibility of thermal load capacity. <i>Physica Medica</i> , 2015, 31, 425-434.	0.7	2
126	Differences in Dose Coverage and Uniformity in Fractionated High-Dose-Rate Interstitial Breast Brachytherapy Based on EMT Measurements. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 96, S169.	0.8	2

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127	OC-0277: Assessment of the implant geometry in interstitial brachytherapy by a hybrid tracking system. Radiotherapy and Oncology, 2017, 123, S143-S144.	0.6	2
128	Method for a motion model based automated 4D dose calculation. Physics in Medicine and Biology, 2019, 64, 225002.	3.0	2
129	Compensation of Target Motion. Biological and Medical Physics Series, 2012, , 545-558.	0.4	2
130	THA-Ca-350a-05: Performance of a Beam Tracking System for Treatment of Moving Targets with Scanned Ion Beams. Medical Physics, 2008, 35, 2967-2967.	3.0	2
131	WE-G-213CD-01: 4D Optimization for Scanned Ion Beam Tracking Therapy for Moving Tumors. Medical Physics, 2012, 39, 3970-3970.	3.0	2
132	SU-F-BRA-02: Electromagnetic Tracking in Brachytherapy as An Advanced Modality for Treatment Quality Assurance. Medical Physics, 2015, 42, 3533-3534.	3.0	2
133	Dosimetry, Optimization and FMEA of Total Skin Electron Irradiation (TSEI). Zeitschrift Fur Medizinische Physik, 2021, , .	1.5	2
134	Risk analysis for radiotherapy at the UniversitÄtsklinikum Erlangen. Zeitschrift Fur Medizinische Physik, 2022, , .	1.5	2
135	Permanent LDR prostate brachytherapy: Comprehensive characterization of seed-dynamics within the prostate on a seed-only level. Brachytherapy, 2022, 21, 635-646.	0.5	2
136	Experimental Validation of a Beam Tracking System for the Treatment of Moving Targets with Scanned Ion Beams. International Journal of Radiation Oncology Biology Physics, 2008, 72, S27.	0.8	1
137	First 4D in-beam PET measurement for beam tracking of a moving phantom with a scanned carbon ion beam. , 2008, , .		1
138	107 RECONSTRUCTION OF 4D IN-BEAM PET DATA FOR QUALITY CONTROL OF MOVING TARGET IRRADIATION IN ION BEAM THERAPY. Radiotherapy and Oncology, 2012, 102, S43-S44.	0.6	1
139	Current status of 4D offline PET-based treatment verification at the Heidelberg Ion-Beam Therapy Center. , 2013, , .		1
140	Noncoplanar verification: a feasibility study using Philips' Pinnacle³ treatment planning system. Journal of Applied Clinical Medical Physics, 2015, 16, 84-90.	1.9	1
141	OC-0251: Electromagnetic tracking for error detection in interstitial brachytherapy. Radiotherapy and Oncology, 2016, 119, S115.	0.6	1
142	EP-1541: 4D dose reconstruction using a standard TPS in combination with a respiratory motion model. Radiotherapy and Oncology, 2017, 123, S828-S829.	0.6	1
143	OC-0075 Error detection using an electromagnetic tracking system in multicatheter interstitial brachytherapy. Radiotherapy and Oncology, 2019, 133, S35.	0.6	1
144	Choosing a reference phase for a dynamic tumor tracking treatment: A new degree of freedom?. Medical Physics, 2019, 46, 3371-3377.	3.0	1

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145	Quality assurance for dynamic tumor tracking. Zeitschrift Fur Medizinische Physik, 2021, 31, 388-393.	1.5	1
146	SU-FF-J-126: Treatment of Moving Targets with Scanned Ion Beams: A Comparison of Different Strategies. Medical Physics, 2006, 33, 2049-2049.	3.0	1
147	TH-C-BRC-09: Tracking Moving Tumors with a Scanned Carbon Beam: Robustness to Changing Target Motion Characteristics and Tracking Uncertainties. Medical Physics, 2011, 38, 3858-3858.	3.0	1
148	Reduction of Elective Radiotherapy Treatment Volume in Definitive Treatment of Locally Advanced Head and Neck Cancer – Comparison of a Prospective Trial with a Revised Simulated Contouring Approach. Journal of Clinical Medicine, 2021, 10, 4653.	2.4	1
149	TU – Target Motion Tracking with a Scanned Particle Beam: Calculation and Experimental Validation of Biologically Effective Doses in the Presence of Motion. Medical Physics, 2008, 35, 2911-2911.	3.0	1
150	Decoupling Respiratory and Angular Variation in Rotational X-ray Scans Using a Prior Bilinear Model. Lecture Notes in Computer Science, 2019, , 583-594.	1.3	1
151	Investigation of Feature-Based Nonrigid Image Registration Using Gaussian Process. Informatik Aktuell, 2020, , 156-162.	0.6	1
152	Development of a Voxel-Based NTCP Algorithm for Treatment Planning. International Journal of Radiation Oncology Biology Physics, 2013, 87, S687-S688.	0.8	0
153	30: Studying inter- and intrafraction motion mitigation with sequential 4DCTs of lung tumor patients. Radiotherapy and Oncology, 2014, 110, S15-S16.	0.6	0
154	OC-0179: Dosimetric impact of errors in HDR-IBT of the breast using a catheter tracking method. Radiotherapy and Oncology, 2017, 123, S91-S92.	0.6	0
155	OC-0171: Quality assurance for interstitial brachytherapy using an EMT system integrated into an afterloader. Radiotherapy and Oncology, 2018, 127, S89.	0.6	0
156	EP-2030: Examination of the automatic fiducial marker detection on the Vero system. Radiotherapy and Oncology, 2018, 127, S1109.	0.6	0
157	EP-2142: Implementation of registration quality assurance. Radiotherapy and Oncology, 2018, 127, S1181-S1182.	0.6	0
158	PO-1048 Variability in catheter reconstruction for multi-catheter interstitial brachytherapy. Radiotherapy and Oncology, 2019, 133, S582.	0.6	0
159	EP-1719 Automated data processing and BigData in radiation therapy. Radiotherapy and Oncology, 2019, 133, S926-S927.	0.6	0
160	EP-1959 Performance of Marker-less Tracking for Gimbaled Dynamic Tumor Tracking. Radiotherapy and Oncology, 2019, 133, S1068-S1069.	0.6	0
161	A generic curriculum development model for the biomedical physics component of the educational and training programmes of the non-physics healthcare professions. Physica Medica, 2021, 85, 32-41.	0.7	0
162	OC-0108 Impact of patient positioning on interstitial multicatheter HDR brachytherapy of the breast. Radiotherapy and Oncology, 2021, 158, S76.	0.6	0

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163	PP-0146 Quality assurance of curved catheter paths in interstitial brachytherapy using a constructed phantom. Radiotherapy and Oncology, 2021, 158, S110-S111.	0.6	0
164	PO-1705 Evaluation of a markerless SGRT-only workflow for breast cancer patients. Radiotherapy and Oncology, 2021, 161, S1432.	0.6	0
165	OC-0301 Update of the ESTRO-EFOMP core curriculum for medical physics experts in radiotherapy. Radiotherapy and Oncology, 2021, 161, S207-S209.	0.6	0
166	SUâ€œCâ€œ303â€œ06: Treatment Planning Study for Nonâ€œInvasive Cardiac Arrhythmia Ablation with Scanned Carbon Ions in An Animal Model. Medical Physics, 2015, 42, 3198-3198.	3.0	0
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