Brigitte Reniers

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Spectroscopic characterization of a novel electronic brachytherapy system. Physics in Medicine and Biology, 2008, 53, 61-75.	3.0	252
2	Extracting atomic numbers and electron densities from a dual source dual energy CT scanner: Experiments and a simulation model. Radiotherapy and Oncology, 2011, 100, 375-379.	0.6	82
3	Sensitivity of low energy brachytherapy Monte Carlo dose calculations to uncertainties in human tissue composition. Medical Physics, 2010, 37, 5188-5198.	3.0	77
4	Postimplant Dosimetry Using a Monte Carlo Dose Calculation Engine: A New Clinical Standard. International Journal of Radiation Oncology Biology Physics, 2007, 68, 1190-1198.	0.8	69
5	The radial dose function of low-energy brachytherapy seeds in different solid phantoms: comparison between calculations with the EGSnrc and MCNP4C Monte Carlo codes and measurements. Physics in Medicine and Biology, 2004, 49, 1569-1582.	3.0	67
6	Dosimetric and microdosimetric study of contrast-enhanced radiotherapy with kilovolt x-rays. Physics in Medicine and Biology, 2005, 50, 3555-3569.	3.0	62
7	ALGEBRA: ALgorithm for the heterogeneous dosimetry based on GEANT4 for BRAchytherapy. Physics in Medicine and Biology, 2012, 57, 3273-3280.	3.0	58
8	Simulation study on potential accuracy gains from dual energy CT tissue segmentation for low-energy brachytherapy Monte Carlo dose calculations. Physics in Medicine and Biology, 2011, 56, 6257-6278.	3.0	57
9	Calculation of relative biological effectiveness of a low-energy electronic brachytherapy source. Physics in Medicine and Biology, 2008, 53, 7125-7135.	3.0	44
10	The difference of scoring dose to water or tissues in Monte Carlo dose calculations for low energy brachytherapy photon sources. Medical Physics, 2011, 38, 1526-1533.	3.0	39
11	Dosimetric characterization of a novel intracavitary mold applicator for Ir192 high dose rate endorectal brachytherapy treatment. Medical Physics, 2006, 33, 4515-4526.	3.0	38
12	Influence of breast composition and interseed attenuation in dose calculations for post-implant assessment of permanent breast ¹⁰³ Pd seed implant. Physics in Medicine and Biology, 2010, 55, 4547-4561.	3.0	36
13	Monte Carlo study of LDR seed dosimetry with an application in a clinical brachytherapy breast implant. Medical Physics, 2009, 36, 1848-1858.	3.0	31
14	Online pretreatment verification of high-dose rate brachytherapy using an imaging panel. Physics in Medicine and Biology, 2017, 62, 5440-5461.	3.0	31
15	Residual metabolic tumor activity after chemo-radiotherapy is mainly located in initially high FDG uptake areas in rectal cancer. Radiotherapy and Oncology, 2011, 99, 137-141.	0.6	30
16	Comparison of TG-43 and TG-186 in breast irradiation using a low energy electronic brachytherapy source. Medical Physics, 2014, 41, 061701.	3.0	29
17	Dosimetric study of the new InterSource125iodine seed. Medical Physics, 2001, 28, 2285-2288.	3.0	27
18	<i>In vivo</i> dosimetry for gynaecological brachytherapy using a novel position sensitive radiation detector: Feasibility study. Medical Physics, 2012, 39, 1925-1935.	3.0	24

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19	Microdosimetric Analysis of Various Mammography Spectra: Lineal Energy Distributions and Ionization Cluster Analysis. Radiation Research, 2004, 162, 592-599.	1.5	23
20	Preclinical Assessment of Efficacy of Radiation Dose Painting Based on Intratumoral FDG-PET Uptake. Clinical Cancer Research, 2015, 21, 5511-5518.	7.0	23
21	Dosimetric study of a new palladium seed. Applied Radiation and Isotopes, 2002, 57, 805-811.	1.5	20
22	Multicentre treatment planning study of MRI-guided brachytherapy for cervical cancer: Comparison between tandem-ovoid applicator users. Radiotherapy and Oncology, 2013, 107, 82-87.	0.6	20
23	A comparison of the relative biological effectiveness of low energy electronic brachytherapy sources in breast tissue: a Monte Carlo study. Physics in Medicine and Biology, 2016, 61, 383-399.	3.0	20
24	Clinical implementation of a digital tomosynthesisâ€based seed reconstruction algorithm for intraoperative postimplant dose evaluation in low dose rate prostate brachytherapy. Medical Physics, 2009, 36, 5235-5244.	3.0	19
25	Influence of trace elements in human tissue in low-energy photon brachytherapy dosimetry. Physics in Medicine and Biology, 2012, 57, 3585-3596.	3.0	19
26	The contribution from transit dose for192Ir HDR brachytherapy treatments. Physics in Medicine and Biology, 2014, 59, 1831-1844.	3.0	19
27	HDR ¹⁹² Ir source speed measurements using a high speed video camera. Medical Physics, 2015, 42, 412-415.	3.0	17
28	Theoretical analysis of microdosimetric spectra and cluster formation for103Pd and125I photon emitters. Physics in Medicine and Biology, 2004, 49, 3781-3795.	3.0	16
29	A medical image-based graphical platform—Features, applications and relevance for brachytherapy. Brachytherapy, 2014, 13, 632-639.	0.5	16
30	Relative biologic effectiveness in terms of tumor response of 1251 implants compared with 60Co gamma rays. International Journal of Radiation Oncology Biology Physics, 2005, 63, 224-229.	0.8	14
31	Dose specification for ¹⁹² Ir high dose rate brachytherapy in terms of dose-to-water-in-medium and dose-to-medium-in-medium. Physics in Medicine and Biology, 2015, 60, 4565-4579.	3.0	14
32	The microdosimetry of low-energy photons in radiotherapy. Radiation Protection Dosimetry, 2006, 122, 401-403.	0.8	13
33	Tissue modeling schemes in low energy breast brachytherapy. Physics in Medicine and Biology, 2011, 56, 7045-7060.	3.0	13
34	Cone Beam CT-Based Three-Dimensional Planning in High-Dose-Rate Brachytherapy for Cervical Cancer. International Journal of Radiation Oncology Biology Physics, 2010, 77, 1092-1097.	0.8	12
35	High dose rate and flattening filter free irradiation can be safely implemented in clinical practice. International Journal of Radiation Biology, 2015, 91, 778-785.	1.8	12
36	The effect of gamma radiation on the mechanical and microstructural properties of Fe-rich inorganic polymers. Journal of Nuclear Materials, 2019, 521, 126-136.	2.7	11

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37	Comparison of dose calculation algorithms for colorectal cancer brachytherapy treatment with a shielded applicator. Medical Physics, 2008, 35, 4824-4830.	3.0	10
38	Dose perturbation due to catheter materials in high-dose-rate interstitial 1921r brachytherapy. Brachytherapy, 2014, 13, 627-631.	0.5	10
39	Mechanical evaluation of the Bravos afterloader system for HDR brachytherapy. Brachytherapy, 2019, 18, 852-862.	0.5	9
40	Optimization of a breast implant in Brachytherapy PDR. Validation with Monte Carlo simulation and measurements with TLDs and GafChromic films. Radiotherapy and Oncology, 2005, 76, 326-333.	0.6	7
41	Dose reduction in LDR brachytherapy by implanted prostate gold fiducial markers. Medical Physics, 2012, 39, 1410-1417.	3.0	7
42	Consequences of dose heterogeneity on the biological efficiency of103Pd permanent breast seed implants. Physics in Medicine and Biology, 2012, 57, 809-823.	3.0	7
43	The use of tetrahedral mesh geometries in Monte Carlo simulation of applicator based brachytherapy dose distributions. Physics in Medicine and Biology, 2014, 59, 5921-5935.	3.0	7
44	What Level of Accuracy Is Achievable for Preclinical Dose Painting Studies on a Clinical Irradiation Platform?. Radiation Research, 2015, 183, 501.	1.5	7
45	Dose distribution for gynecological brachytherapy with dose accumulation between insertions: Feasibility study. Brachytherapy, 2016, 15, 504-513.	0.5	7
46	A novel rectal applicator for contact radiotherapy with HDR 192Ir sources. Brachytherapy, 2018, 17, 1037-1044.	0.5	7
47	The effect of different lower detection thresholds in microdosimetric spectra and their mean values. Radiation Measurements, 2021, 146, 106626.	1.4	7
48	A deep learning and Monte Carlo based framework for bioluminescence imaging center of mass-guided glioblastoma targeting. Physics in Medicine and Biology, 2022, 67, 144003.	3.0	7
49	Technical Note: Cone beam CT imaging for 3D image guided brachytherapy for gynecological HDR brachytherapy. Medical Physics, 2011, 38, 2762-2767.	3.0	4
50	Advanced design, simulation, and dosimetry of a novel rectal applicator for contact brachytherapy with a conventional HDR 192Ir source. Brachytherapy, 2020, 19, 544-553.	0.5	4
51	Validation of TOPAS MC for modelling the efficiency of an extended-range coaxial p-type HPGe detector. Applied Radiation and Isotopes, 2021, 173, 109699.	1.5	4
52	MO-AB-BRA-03: Development of Novel Real Time in Vivo EPID Treatment Verification for Brachytherapy. Medical Physics, 2016, 43, 3691-3691.	3.0	4
53	Measurement of absorbed dose to water around an electronic brachytherapy source. Comparison of two dosimetry systems: lithium formate EPR dosimeters and radiochromic EBT2 film. Physics in Medicine and Biology, 2015, 60, 3869-3882.	3.0	3
54	The use of Cone Beam CT-based Three-dimensional Planning in Intracavitary Brachytherapy for Cervical Cancer. International Journal of Radiation Oncology Biology Physics, 2008, 72, S583.	0.8	2

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55	Monte Carlo iodine brachytherapy dosimetry: study for a clinical application. Journal of Physics: Conference Series, 2008, 102, 012011.	0.4	2
56	3D Dose Distribution for GYN with Dose Accumulation between Insertions: Feasibility Study. Brachytherapy, 2013, 12, S22.	0.5	2
57	SU-FF-T-406: Toward a More Accurate Dose Calculation Technique Using a Semiautomatic Organ Contouring in Monte Carlo Post-Implant Assessment of Breast LDR Brachytherapy. Medical Physics, 2009, 36, 2615-2615.	3.0	2
58	3D image-guided brachytherapy using cone beam CT. Brachytherapy, 2008, 7, 155-156.	0.5	1
59	300 oral IN VIVO DOSIMETRY FOR GYNAECOLOGICAL BRACHYTHERAPY BASED ON A NOVEL RADPOS SYSTEM Radiotherapy and Oncology, 2011, 99, S118-S119.	0.6	1
60	Different Tissue Modeling Schemes in Post-implant Assessment ofÂBreast LDR Brachytherapy. Brachytherapy, 2011, 10, S32.	0.5	1
61	Theoretical versusEx VivoAssessment of Radiation Damage Repair: An Investigation in Normal Breast Tissue. Radiation Research, 2016, 185, 393-401.	1.5	1
62	MO-E-T-618-05: Monte Carlo Study of the Effect of the Tissue Composition On the Dosimetric Data Used for Low Energy Photons. Medical Physics, 2005, 32, 2069-2069.	3.0	1
63	Design of a Cylindrical Brachytherapy Implant Applicator for the Irradiation of an Intestinal Segment in Mice. Radiation Research, 2003, 159, 123-127.	1.5	0
64	3D DOSE DISTRIBUTION FOR GYN WITH DOSE ACCUMULATION BETWEEN INSERTIONS: FEASIBILITY STUDY. Radiotherapy and Oncology, 2009, 92, S102.	0.6	0
65	USE OF ADVANCED DEFORMABLE REGISTRATION ALGORITHMS IN REPEATED FDG PET-CT IMAGING FOR RECTAL CANCER. Radiotherapy and Oncology, 2009, 92, S120.	0.6	0
66	84 poster: 3D Image Guided Brachytherapy Using Cone Beam CT. Radiotherapy and Oncology, 2009, 91, S33.	0.6	0
67	42 oral: The Role of Monte Carlo Simulation in Brachytherapy With Low-Energy Sources. Radiotherapy and Oncology, 2009, 91, S14-S15.	0.6	0
68	Breast Density Effect on Target and Skin Doses in 40 Breast 103pd Seed Implants Studied using a Semiautomatic Tissue Segmentation. International Journal of Radiation Oncology Biology Physics, 2010, 78, S252-S253.	0.8	0
69	81 oral BREAST TISSUE MODELING IN MONTE CARLO POST-IMPLANT EVALUATION OF BREAST LDR BRACHYTHERAPY. Radiotherapy and Oncology, 2011, 99, S30-S31.	0.6	0
70	108 oral DOSE TO MEDIUM AND WATER IN LOW ENERGY BRACHYTHERAPY. Radiotherapy and Oncology, 2011, 99, S41.	0.6	0
71	147 oral MULTICENTRE STUDY OF MRI-GUIDED BRACHYTHERAPY TREATMENT PLANNING: COMPARISON AMONG TANDEM OVOID APPLICATOR USERS. Radiotherapy and Oncology, 2011, 99, S55.	0.6	0
72	155 oral ON THE POTENTIAL OF DUAL ENERGY CT TISSUE SEGMENTATION IN LOW ENERGY BRACHYTHERAPY DOSE CALCULATIONS. Radiotherapy and Oncology, 2011, 99, S58-S59.	0.6	0

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73	Dosimetric Impact of Tissue Heterogeneity in Low Energy Accelerated Partial Breast Irradiation: A Monte Carlo Study. Brachytherapy, 2013, 12, S46.	0.5	Ο
74	Monte Carlo Simulation of HDR Ir-192 Brachytherapy Cancer Treatments. Brachytherapy, 2014, 13, S28.	0.5	0
75	SU-FF-T-364: Photo-Electric Effect with a Vengeance: Dosimetric and Microdosimetric Characterization of Contrast-Enhanced Radiation Therapy Using Kilovolt X-Rays. Medical Physics, 2005, 32, 2034-2034.	3.0	0
76	SU-FF-T-316: Measured and Calculated Dose Distribution Around 125I Brachytherapy Seeds in a Breast Phantom. Medical Physics, 2006, 33, 2119-2119.	3.0	0
77	SU-GG-T-05: MOSFET In-Vivo Dosimetry for Colorectal Cancer Patients Treated with Shielded Brachytherapy. Medical Physics, 2008, 35, 2727-2727.	3.0	0
78	SU-GG-T-508: Evaluation of the Monte Carlo Dose Calculation Engine of Eclipse Treatment Planning System for Electron Beams. Medical Physics, 2008, 35, 2841-2842.	3.0	0
79	SUâ€HHâ€AUD Câ€05: Low Dose Rate Prostate Brachytherapy: A Tomosynthesisâ€Based Intraâ€Operative Postâ€Implant Dose Evaluation. Medical Physics, 2008, 35, 2854-2854.	3.0	0
80	SU-GG-T-29: Introduction of the Cone Beam CT for 3D Image Guided GYN Brachytherapy. Medical Physics, 2008, 35, 2732-2732.	3.0	0
81	THâ€Câ€AUD Aâ€10: LDR Brachytherapy Dosimetry: Monte Carlo Code and TGâ€43 Comparisons. Medical Physi 2008, 35, 2971-2971.	^{cs} 3.0	0
82	SU-FF-I-15: An Algorithm for Metal Streaking Artifact Reduction in Cone Beam CT. Medical Physics, 2009, 36, 2437-2737.	3.0	0
83	WE-D-BRB-08: Effects of Shielded Ovoids in HDR 192Ir Cervical Brachytherapy: A Monte Carlo Study Using Cone-Beam CT Images. Medical Physics, 2009, 36, 2773-2773.	3.0	0
84	SU-GG-T-496: The Sensitivity of BED and TCP Parameters to Dose Heterogeneity in Brachytherapy Treatments. Medical Physics, 2010, 37, 3301-3301.	3.0	0
85	TH-A-220-05: Evaluating the Impact of Dual Energy CT on LDR Brachytherapy Dose Calculations. Medical Physics, 2011, 38, 3846-3846.	3.0	0
86	SU-E-T-374: Use of the Novel RadPos System for In-Vivo Dose Verification in Gynaecological Brachytherapy Treatment. Medical Physics, 2011, 38, 3573-3573.	3.0	0
87	Prognostic value of chromosomal imbalancies and the colon gene expression signatures in rectal cancer Journal of Clinical Oncology, 2012, 30, 465-465.	1.6	0
88	SU-E-U-10: Ultrasound Based Deformable Image Registration: Daily CT Images Derived From Daily IGRT Ultrasound. Medical Physics, 2013, 40, 375-375.	3.0	0