

# Brigitte Reniers

## List of Publications by Year in descending order

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88  
papers

1,478  
citations

361413

20  
h-index

330143

37  
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88  
all docs

88  
docs citations

88  
times ranked

1413  
citing authors

#	ARTICLE	IF	CITATIONS
1	A deep learning and Monte Carlo based framework for bioluminescence imaging center of mass-guided glioblastoma targeting. <i>Physics in Medicine and Biology</i> , 2022, 67, 144003.	3.0	7
2	Validation of TOPAS MC for modelling the efficiency of an extended-range coaxial p-type HPGe detector. <i>Applied Radiation and Isotopes</i> , 2021, 173, 109699.	1.5	4
3	The effect of different lower detection thresholds in microdosimetric spectra and their mean values. <i>Radiation Measurements</i> , 2021, 146, 106626.	1.4	7
4	Advanced design, simulation, and dosimetry of a novel rectal applicator for contact brachytherapy with a conventional HDR 192Ir source. <i>Brachytherapy</i> , 2020, 19, 544-553.	0.5	4
5	The effect of gamma radiation on the mechanical and microstructural properties of Fe-rich inorganic polymers. <i>Journal of Nuclear Materials</i> , 2019, 521, 126-136.	2.7	11
6	Mechanical evaluation of the Bravos afterloader system for HDR brachytherapy. <i>Brachytherapy</i> , 2019, 18, 852-862.	0.5	9
7	A novel rectal applicator for contact radiotherapy with HDR 192Ir sources. <i>Brachytherapy</i> , 2018, 17, 1037-1044.	0.5	7
8	Online pretreatment verification of high-dose rate brachytherapy using an imaging panel. <i>Physics in Medicine and Biology</i> , 2017, 62, 5440-5461.	3.0	31
9	Theoretical versus Ex Vivo Assessment of Radiation Damage Repair: An Investigation in Normal Breast Tissue. <i>Radiation Research</i> , 2016, 185, 393-401.	1.5	1
10	Dose distribution for gynecological brachytherapy with dose accumulation between insertions: Feasibility study. <i>Brachytherapy</i> , 2016, 15, 504-513.	0.5	7
11	A comparison of the relative biological effectiveness of low energy electronic brachytherapy sources in breast tissue: a Monte Carlo study. <i>Physics in Medicine and Biology</i> , 2016, 61, 383-399.	3.0	20
12	MO-AB-BRA-03: Development of Novel Real Time in Vivo EPID Treatment Verification for Brachytherapy. <i>Medical Physics</i> , 2016, 43, 3691-3691.	3.0	4
13	HDR <sup>192</sup> Ir source speed measurements using a high speed video camera. <i>Medical Physics</i> , 2015, 42, 412-415.	3.0	17
14	Dose specification for <sup>192</sup> Ir high dose rate brachytherapy in terms of dose-to-water-in-medium and dose-to-medium-in-medium. <i>Physics in Medicine and Biology</i> , 2015, 60, 4565-4579.	3.0	14
15	Measurement of absorbed dose to water around an electronic brachytherapy source. Comparison of two dosimetry systems: lithium formate EPR dosimeters and radiochromic EBT2 film. <i>Physics in Medicine and Biology</i> , 2015, 60, 3869-3882.	3.0	3
16	What Level of Accuracy Is Achievable for Preclinical Dose Painting Studies on a Clinical Irradiation Platform?. <i>Radiation Research</i> , 2015, 183, 501.	1.5	7
17	High dose rate and flattening filter free irradiation can be safely implemented in clinical practice. <i>International Journal of Radiation Biology</i> , 2015, 91, 778-785.	1.8	12
18	Preclinical Assessment of Efficacy of Radiation Dose Painting Based on Intratumoral FDG-PET Uptake. <i>Clinical Cancer Research</i> , 2015, 21, 5511-5518.	7.0	23

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19	Comparison of TG-43 and TG-186 in breast irradiation using a low energy electronic brachytherapy source. <i>Medical Physics</i> , 2014, 41, 061701.	3.0	29
20	The use of tetrahedral mesh geometries in Monte Carlo simulation of applicator based brachytherapy dose distributions. <i>Physics in Medicine and Biology</i> , 2014, 59, 5921-5935.	3.0	7
21	Monte Carlo Simulation of HDR Ir-192 Brachytherapy Cancer Treatments. <i>Brachytherapy</i> , 2014, 13, S28.	0.5	0
22	The contribution from transit dose for 192Ir HDR brachytherapy treatments. <i>Physics in Medicine and Biology</i> , 2014, 59, 1831-1844.	3.0	19
23	A medical image-based graphical platform – Features, applications and relevance for brachytherapy. <i>Brachytherapy</i> , 2014, 13, 632-639.	0.5	16
24	Dose perturbation due to catheter materials in high-dose-rate interstitial 192Ir brachytherapy. <i>Brachytherapy</i> , 2014, 13, 627-631.	0.5	10
25	Multicentre treatment planning study of MRI-guided brachytherapy for cervical cancer: Comparison between tandem-ovoid applicator users. <i>Radiotherapy and Oncology</i> , 2013, 107, 82-87.	0.6	20
26	Dosimetric Impact of Tissue Heterogeneity in Low Energy Accelerated Partial Breast Irradiation: A Monte Carlo Study. <i>Brachytherapy</i> , 2013, 12, S46.	0.5	0
27	3D Dose Distribution for GYN with Dose Accumulation between Insertions: Feasibility Study. <i>Brachytherapy</i> , 2013, 12, S22.	0.5	2
28	SU-E-U-10: Ultrasound Based Deformable Image Registration: Daily CT Images Derived From Daily IGRT Ultrasound. <i>Medical Physics</i> , 2013, 40, 375-375.	3.0	0
29	Dose reduction in LDR brachytherapy by implanted prostate gold fiducial markers. <i>Medical Physics</i> , 2012, 39, 1410-1417.	3.0	7
30	Influence of trace elements in human tissue in low-energy photon brachytherapy dosimetry. <i>Physics in Medicine and Biology</i> , 2012, 57, 3585-3596.	3.0	19
31	<i>In vivo</i> dosimetry for gynaecological brachytherapy using a novel position sensitive radiation detector: Feasibility study. <i>Medical Physics</i> , 2012, 39, 1925-1935.	3.0	24
32	ALGEBRA: Algorithm for the heterogeneous dosimetry based on GEANT4 for BRACHYtherapy. <i>Physics in Medicine and Biology</i> , 2012, 57, 3273-3280.	3.0	58
33	Consequences of dose heterogeneity on the biological efficiency of 103Pd permanent breast seed implants. <i>Physics in Medicine and Biology</i> , 2012, 57, 809-823.	3.0	7
34	Prognostic value of chromosomal imbalances and the colon gene expression signatures in rectal cancer. <i>Journal of Clinical Oncology</i> , 2012, 30, 465-465.	1.6	0
35	Simulation study on potential accuracy gains from dual energy CT tissue segmentation for low-energy brachytherapy Monte Carlo dose calculations. <i>Physics in Medicine and Biology</i> , 2011, 56, 6257-6278.	3.0	57
36	Tissue modeling schemes in low energy breast brachytherapy. <i>Physics in Medicine and Biology</i> , 2011, 56, 7045-7060.	3.0	13

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37	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
38	108 oral DOSE TO MEDIUM AND WATER IN LOW ENERGY BRACHYTHERAPY. Radiotherapy and Oncology, 2011, 99, S41.	0.6	0
39	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
40	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
41	300 oral IN VIVO DOSIMETRY FOR GYNAECOLOGICAL BRACHYTHERAPY BASED ON A NOVEL RADPOS SYSTEM.. Radiotherapy and Oncology, 2011, 99, S118-S119.	0.6	1
42	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
43	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
44	Technical Note: Cone beam CT imaging for 3D image guided brachytherapy for gynecological HDR brachytherapy. Medical Physics, 2011, 38, 2762-2767.	3.0	4
45	Different Tissue Modeling Schemes in Post-implant Assessment of Breast LDR Brachytherapy. Brachytherapy, 2011, 10, S32.	0.5	1
46	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
47	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
48	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
49	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
50	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
51	Sensitivity of low energy brachytherapy Monte Carlo dose calculations to uncertainties in human tissue composition. Medical Physics, 2010, 37, 5188-5198.	3.0	77
52	Influence of breast composition and interseed attenuation in dose calculations for post-implant assessment of permanent breast <sup>103</sup> Pd seed implant. Physics in Medicine and Biology, 2010, 55, 4547-4561.	3.0	36
53	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
54	Clinical implementation of a digital tomosynthesis based seed reconstruction algorithm for intraoperative postimplant dose evaluation in low dose rate prostate brachytherapy. Medical Physics, 2009, 36, 5235-5244.	3.0	19

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55	Monte Carlo study of LDR seed dosimetry with an application in a clinical brachytherapy breast implant. <i>Medical Physics</i> , 2009, 36, 1848-1858.	3.0	31
56	3D DOSE DISTRIBUTION FOR GYN WITH DOSE ACCUMULATION BETWEEN INSERTIONS: FEASIBILITY STUDY. <i>Radiotherapy and Oncology</i> , 2009, 92, S102.	0.6	0
57	USE OF ADVANCED DEFORMABLE REGISTRATION ALGORITHMS IN REPEATED FDG PET-CT IMAGING FOR RECTAL CANCER. <i>Radiotherapy and Oncology</i> , 2009, 92, S120.	0.6	0
58	84 poster: 3D Image Guided Brachytherapy Using Cone Beam CT. <i>Radiotherapy and Oncology</i> , 2009, 91, S33.	0.6	0
59	42 oral: The Role of Monte Carlo Simulation in Brachytherapy With Low-Energy Sources. <i>Radiotherapy and Oncology</i> , 2009, 91, S14-S15.	0.6	0
60	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. <i>Medical Physics</i> , 2009, 36, 2615-2615.	3.0	2
61	SU-FF-I-15: An Algorithm for Metal Streaking Artifact Reduction in Cone Beam CT. <i>Medical Physics</i> , 2009, 36, 2437-2737.	3.0	0
62	WE-D-BRB-08: Effects of Shielded Ovoids in HDR 192Ir Cervical Brachytherapy: A Monte Carlo Study Using Cone-Beam CT Images. <i>Medical Physics</i> , 2009, 36, 2773-2773.	3.0	0
63	3D image-guided brachytherapy using cone beam CT. <i>Brachytherapy</i> , 2008, 7, 155-156.	0.5	1
64	The use of Cone Beam CT-based Three-dimensional Planning in Intracavitary Brachytherapy for Cervical Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 72, S583.	0.8	2
65	Calculation of relative biological effectiveness of a low-energy electronic brachytherapy source. <i>Physics in Medicine and Biology</i> , 2008, 53, 7125-7135.	3.0	44
66	Spectroscopic characterization of a novel electronic brachytherapy system. <i>Physics in Medicine and Biology</i> , 2008, 53, 61-75.	3.0	252
67	Comparison of dose calculation algorithms for colorectal cancer brachytherapy treatment with a shielded applicator. <i>Medical Physics</i> , 2008, 35, 4824-4830.	3.0	10
68	Monte Carlo iodine brachytherapy dosimetry: study for a clinical application. <i>Journal of Physics: Conference Series</i> , 2008, 102, 012011.	0.4	2
69	SU-GG-T-05: MOSFET In-Vivo Dosimetry for Colorectal Cancer Patients Treated with Shielded Brachytherapy. <i>Medical Physics</i> , 2008, 35, 2727-2727.	3.0	0
70	SU-GG-T-508: Evaluation of the Monte Carlo Dose Calculation Engine of Eclipse Treatment Planning System for Electron Beams. <i>Medical Physics</i> , 2008, 35, 2841-2842.	3.0	0
71	SU-6H-6A-UD C-05: Low Dose Rate Prostate Brachytherapy: A Tomosynthesis-Based Intra-Operative Post-Implant Dose Evaluation. <i>Medical Physics</i> , 2008, 35, 2854-2854.	3.0	0
72	SU-GG-T-29: Introduction of the Cone Beam CT for 3D Image Guided GYN Brachytherapy. <i>Medical Physics</i> , 2008, 35, 2732-2732.	3.0	0

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73	THAËCâ€AUD Aâ€10: LDR Brachytherapy Dosimetry: Monte Carlo Code and TGâ€43 Comparisons. Medical Physics, 2008, 35, 2971-2971.	3.0	0
74	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
75	The microdosimetry of low-energy photons in radiotherapy. Radiation Protection Dosimetry, 2006, 122, 401-403.	0.8	13
76	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
77	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
78	Relative biologic effectiveness in terms of tumor response of 125I implants compared with 60Co gamma rays. International Journal of Radiation Oncology Biology Physics, 2005, 63, 224-229.	0.8	14
79	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
80	Dosimetric and microdosimetric study of contrast-enhanced radiotherapy with kilovolt x-rays. Physics in Medicine and Biology, 2005, 50, 3555-3569.	3.0	62
81	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
82	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
83	Microdosimetric Analysis of Various Mammography Spectra: Lineal Energy Distributions and Ionization Cluster Analysis. Radiation Research, 2004, 162, 592-599.	1.5	23
84	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
85	Theoretical analysis of microdosimetric spectra and cluster formation for 103Pd and 125I photon emitters. Physics in Medicine and Biology, 2004, 49, 3781-3795.	3.0	16
86	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
87	Dosimetric study of a new palladium seed. Applied Radiation and Isotopes, 2002, 57, 805-811.	1.5	20
88	Dosimetric study of the new InterSource 125iodine seed. Medical Physics, 2001, 28, 2285-2288.	3.0	27