

# Luc Beaulieu

## List of Publications by Year in descending order

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330  
papers

7,933  
citations

57631

44  
h-index

74018

75  
g-index

336  
all docs

336  
docs citations

336  
times ranked

3718  
citing authors

#	ARTICLE	IF	CITATIONS
1	Report of the Task Group 186 on model-based dose calculation methods in brachytherapy beyond the TG43 formalism: Current status and recommendations for clinical implementation. <i>Medical Physics</i> , 2012, 39, 6208-6236.	1.6	391
2	Isospin Diffusion and the Nuclear Symmetry Energy in Heavy Ion Reactions. <i>Physical Review Letters</i> , 2004, 92, 062701.	2.9	354
3	Isospin Fractionation in Nuclear Multifragmentation. <i>Physical Review Letters</i> , 2000, 85, 716-719.	2.9	289
4	Dual-energy CT-based material extraction for tissue segmentation in Monte Carlo dose calculations. <i>Physics in Medicine and Biology</i> , 2008, 53, 2439-2456.	1.6	171
5	The evolution of brachytherapy treatment planning. <i>Medical Physics</i> , 2009, 36, 2136-2153.	1.6	157
6	Liquid to Vapor Phase Transition in Excited Nuclei. <i>Physical Review Letters</i> , 2002, 88, 042701.	2.9	151
7	Measurements of intrafraction motion and interfraction and intrafraction rotation of prostate by three-dimensional analysis of daily portal imaging with radiopaque markers. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 60, 30-39.	0.4	149
8	An adaptive approach to metal artifact reduction in helical computed tomography for radiation therapy treatment planning: Experimental and clinical studies. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005, 62, 1224-1231.	0.4	142
9	Measurement accuracy and Cerenkov removal for high performance, high spatial resolution scintillation dosimetry. <i>Medical Physics</i> , 2005, 33, 128-135.	1.6	141
10	Validation of GEANT4, an object-oriented Monte Carlo toolkit, for simulations in medical physics. <i>Medical Physics</i> , 2004, 31, 484-492.	1.6	137
11	Spectral method for the correction of the Cerenkov light effect in plastic scintillation detectors: A comparison study of calibration procedures and validation in Cerenkov light-dominated situations. <i>Medical Physics</i> , 2011, 38, 2140-2150.	1.6	116
12	Review of plastic and liquid scintillation dosimetry for photon, electron, and proton therapy. <i>Physics in Medicine and Biology</i> , 2016, 61, R305-R343.	1.6	114
13	Correction of CT artifacts and its influence on Monte Carlo dose calculations. <i>Medical Physics</i> , 2007, 34, 2119-2132.	1.6	112
14	Signals for a Transition from Surface to Bulk Emission in Thermal Multifragmentation. <i>Physical Review Letters</i> , 2000, 84, 5971-5974.	2.9	92
15	On the nature of the light produced within PMMA optical light guides in scintillation fiber-optic dosimetry. <i>Physics in Medicine and Biology</i> , 2013, 58, 2073-2084.	1.6	86
16	Water-equivalent dosimeter array for small-field external beam radiotherapy. <i>Medical Physics</i> , 2007, 34, 1583-1592.	1.6	85
17	Extracting atomic numbers and electron densities from a dual source dual energy CT scanner: Experiments and a simulation model. <i>Radiotherapy and Oncology</i> , 2011, 100, 375-379.	0.3	82
18	LASSA: a large area silicon strip array for isotopic identification of charged particles. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 473, 302-318.	0.7	78

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19	A comparative study of small field total scatter factors and dose profiles using plastic scintillation detectors and other stereotactic dosimeters: The case of the CyberKnife. <i>Medical Physics</i> , 2013, 40, 011719.	1.6	78
20	AAPM and GEC-ESTRO guidelines for image-guided robotic brachytherapy: Report of Task Group 192. <i>Medical Physics</i> , 2014, 41, 101501.	1.6	78
21	An Eight-Year Experience of HDR Brachytherapy Boost for Localized Prostate Cancer: Biopsy and PSA Outcome. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 73, 679-684.	0.4	77
22	Sensitivity of low energy brachytherapy Monte Carlo dose calculations to uncertainties in human tissue composition. <i>Medical Physics</i> , 2010, 37, 5188-5198.	1.6	77
23	A phantom study of an <i>in vivo</i> dosimetry system using plastic scintillation detectors for real-time verification of <sup>192</sup> Ir HDR brachytherapy. <i>Medical Physics</i> , 2011, 38, 2542-2551.	1.6	76
24	Plastic scintillation dosimetry: Optimal selection of scintillating fibers and scintillators. <i>Medical Physics</i> , 2005, 32, 2271-2278.	1.6	75
25	Toward a Real-Time In Vivo Dosimetry System Using Plastic Scintillation Detectors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 78, 280-287.	0.4	74
26	Postimplant Dosimetry Using a Monte Carlo Dose Calculation Engine: A New Clinical Standard. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 68, 1190-1198.	0.4	69
27	Early clinical experience with anatomy-based inverse planning dose optimization for high-dose-rate boost of the prostate. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002, 54, 86-100.	0.4	67
28	Isotope yields from central Sn112,124+Sn112,124 collisions: Dynamical emission?. <i>Physical Review C</i> , 2004, 69, .	1.1	64
29	Clinical prototype of a plastic water-equivalent scintillating fiber dosimeter array for QA	1.6	64
30	A generic high-dose rate <sup>192</sup> Ir brachytherapy source for evaluation of model-based dose calculations beyond the TG-43 formalism. <i>Medical Physics</i> , 2015, 42, 3048-3062.	1.6	64
31	Impact of interseed attenuation and tissue composition for permanent prostate implants. <i>Medical Physics</i> , 2006, 33, 595-604.	1.6	62
32	Automated seed detection and three-dimensional reconstruction. II. Reconstruction of permanent prostate implants using simulated annealing. <i>Medical Physics</i> , 2001, 28, 2272-2279.	1.6	61
33	Dosimetric performance and array assessment of plastic scintillation detectors for stereotactic radiosurgery quality assurance. <i>Medical Physics</i> , 2011, 39, 429-436.	1.6	60
34	A new water-equivalent 2D plastic scintillation detectors array for the dosimetry of megavoltage energy photon beams in radiation therapy. <i>Medical Physics</i> , 2011, 38, 6763-6774.	1.6	59
35	Event-by-Event Analysis of Proton-Induced Nuclear Multifragmentation: Determination of the Phase Transition Universality Class in a System with Extreme Finite-Size Constraints. <i>Physical Review Letters</i> , 2001, 88, 022701.	2.9	58
36	ALGEBRA: Algorithm for the heterogeneous dosimetry based on GEANT4 for BRachytherapy. <i>Physics in Medicine and Biology</i> , 2012, 57, 3273-3280.	1.6	58

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37	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.	1.6	57
38	Tissue segmentation in Monte Carlo treatment planning: A simulation study using dual-energy CT images. <i>Radiotherapy and Oncology</i> , 2008, 86, 93-98.	0.3	56
39	Characterizing the response of miniature scintillation detectors when irradiated with proton beams. <i>Physics in Medicine and Biology</i> , 2008, 53, 1865-1876.	1.6	55
40	Enhancements to commissioning techniques and quality assurance of brachytherapy treatment 2645-2658.	1.6	55
41	Fast, automatic, and accurate catheter reconstruction in HDR brachytherapy using an electromagnetic 3D tracking system. <i>Medical Physics</i> , 2015, 42, 1227-1232.	1.6	55
42	Permanent prostate implant using high activity seeds and inverse planning with fast simulated annealing algorithm: A 12-year Canadian experience. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 67, 334-341.	0.4	52
43	In vivo dosimetry in brachytherapy: Requirements and future directions for research, development, and clinical practice. <i>Physics and Imaging in Radiation Oncology</i> , 2020, 16, 1-11.	1.2	51
44	Validating plastic scintillation detectors for photon dosimetry in the radiologic energy range. <i>Medical Physics</i> , 2012, 39, 5308-5316.	1.6	45
45	Is Tsallis Thermodynamics Nonextensive?. <i>Physical Review Letters</i> , 2001, 88, 020601.	2.9	44
46	Automated seed detection and three-dimensional reconstruction. I. Seed localization from fluoroscopic images or radiographs. <i>Medical Physics</i> , 2001, 28, 2265-2271.	1.6	44
47	Robustness and precision of an automatic marker detection algorithm for online prostate daily targeting using a standard V-EPID. <i>Medical Physics</i> , 2003, 30, 1825-1832.	1.6	44
48	The robustness of dose distributions to displacement and migration of 125I permanent seed implants over a wide range of seed number, activity, and designs. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 58, 1298-1308.	0.4	44
49	Energy and integrated dose dependence of MOSFET dosimeter sensitivity for irradiation energies between 30kV and Co60. <i>Medical Physics</i> , 2006, 33, 3683-3689.	1.6	44
50	Developing a phenomenological model of the proton trajectory within a heterogeneous medium required for proton imaging. <i>Physics in Medicine and Biology</i> , 2015, 60, 5071-5082.	1.6	44
51	Validation of the Oncentra Brachy Advanced Collapsed cone Engine for a commercial 192Ir source using heterogeneous geometries. <i>Brachytherapy</i> , 2015, 14, 939-952.	0.2	43
52	Technical Note: Removing the stem effect when performing $^{192}\text{Ir}$ HDR brachytherapy <i>in vivo</i> dosimetry using plastic scintillation detectors: A relevant and necessary step. <i>Medical Physics</i> , 2011, 38, 2176-2179.	1.6	42
53	A mathematical formalism for hyperspectral, multipoint plastic scintillation detectors. <i>Physics in Medicine and Biology</i> , 2012, 57, 7133-7145.	1.6	42
54	A theoretical framework to predict the most likely ion path in particle imaging. <i>Physics in Medicine and Biology</i> , 2017, 62, 1777-1790.	1.6	42

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55	The difference of scoring dose to water or tissues in Monte Carlo dose calculations for low energy brachytherapy photon sources. <i>Medical Physics</i> , 2011, 38, 1526-1533.	1.6	39
56	Development of a novel multi-point plastic scintillation detector with a single optical transmission line for radiation dose measurement. <i>Physics in Medicine and Biology</i> , 2012, 57, 7147-7159.	1.6	38
57	Novel, full 3D scintillation dosimetry using a static plenoptic camera. <i>Medical Physics</i> , 2014, 41, 082101.	1.6	38
58	An algorithm for efficient metal artifact reductions in permanent seed implants. <i>Medical Physics</i> , 2011, 38, 47-56.	1.6	37
59	On the use of a single-fiber multipoint plastic scintillation detector for $^{192}\text{Ir}$ high-dose-rate brachytherapy. <i>Medical Physics</i> , 2013, 40, 062101.	1.6	37
60	Thermal excitation of heavy nuclei with $5\text{A}^{15}\text{ GeV/c}$ antiproton, proton and pion beams. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 463, 159-167.	1.5	36
61	Light-ion-induced multifragmentation: The ISiS project. <i>Physics Reports</i> , 2006, 434, 1-46.	10.3	36
62	Extraction of depth-dependent perturbation factors for parallel-plate chambers in electron beams using a plastic scintillation detector. <i>Medical Physics</i> , 2010, 37, 4331-4342.	1.6	36
63	Influence of breast composition and interseed attenuation in dose calculations for post-implant assessment of permanent breast $^{103}\text{Pd}$ seed implant. <i>Physics in Medicine and Biology</i> , 2010, 55, 4547-4561.	1.6	36
64	Current status of scintillation dosimetry for megavoltage beams. <i>Journal of Physics: Conference Series</i> , 2013, 444, 012013.	0.3	36
65	Energy-light relation for CsI(Tl) scintillators in heavy ion experiments at intermediate energies. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1994, 348, 167-172.	0.7	35
66	Laboratory Characterization and Influence of Mineralogy and Grading on the Performance of Treated and Untreated Granular Materials Used as Surface Pavements in Unpaved Road. <i>Advances in Civil Engineering</i> , 2010, 2010, 1-10.	0.4	35
67	A Monte Carlo study on the effect of seed design on the interseed attenuation in permanent prostate implants. <i>Medical Physics</i> , 2008, 35, 3671-3681.	1.6	34
68	A generic $^{186}\text{Re}$ shielded applicator for commissioning model-based dose calculation algorithms for high-dose-rate $^{192}\text{Ir}$ brachytherapy. <i>Medical Physics</i> , 2017, 44, 5961-5976.	1.6	34
69	Fragment production in noncentral collisions of intermediate-energy heavy ions. <i>Physical Review C</i> , 2002, 65, .	1.1	33
70	Real-time electromagnetic tracking-based treatment platform for high-dose-rate prostate brachytherapy: Clinical workflows and end-to-end validation. <i>Brachytherapy</i> , 2018, 17, 103-110.	0.2	33
71	Source size scaling of fragment production in projectile breakup. <i>Physical Review C</i> , 1996, 54, R973-R976.	1.1	32
72	Bypassing the learning curve in permanent seed implants using state-of-the-art technology. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 67, 71-77.	0.4	32

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73	Layered mass geometry: a novel technique to overlay seeds and applicators onto patient geometry in Geant4 brachytherapy simulations. <i>Physics in Medicine and Biology</i> , 2012, 57, 6269-6277.	1.6	32
74	Performance and suitability assessment of a real-time 3D electromagnetic needle tracking system for interstitial brachytherapy. <i>Journal of Contemporary Brachytherapy</i> , 2015, 4, 280-289.	0.4	32
75	Formation of a necklike structure in $^{35}\text{Cl}+^{12}\text{C}$ and $^{197}\text{Au}$ reactions at 43 MeV/nucleon. <i>Physical Review C</i> , 1997, 55, 1869-1880.	1.1	31
76	Performing daily prostate targeting with a standard V-EPID and an automated radio-opaque marker detection algorithm. <i>Radiotherapy and Oncology</i> , 2004, 73, 61-64.	0.3	31
77	Monte Carlo study of LDR seed dosimetry with an application in a clinical brachytherapy breast implant. <i>Medical Physics</i> , 2009, 36, 1848-1858.	1.6	31
78	High-dose-rate brachytherapy boost for prostate cancer treatment: Different combinations of hypofractionated regimens and clinical outcomes. <i>Radiotherapy and Oncology</i> , 2017, 124, 49-55.	0.3	31
79	Pre-treatment patient-specific stopping power by combining list-mode proton radiography and x-ray CT. <i>Physics in Medicine and Biology</i> , 2017, 62, 6836-6852.	1.6	31
80	Measurements of low-energy (d,n) reactions for BNCT. <i>Medical Physics</i> , 1999, 26, 793-798.	1.6	30
81	Thermal excitation-energy deposition in $5\alpha\text{-}^{15}\text{GeV}/\text{chadron}$ -induced reactions with $^{197}\text{Au}$ . II. Relation between excitation energy and reaction variables. <i>Physical Review C</i> , 2001, 64, .	1.1	29
82	Dosimetric impact of the variation of the prostate volume and shape between pretreatment planning and treatment procedure. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002, 53, 215-221.	0.4	29
83	Dose Escalation to the Dominant Intraprostatic Lesion Defined by Sextant Biopsy in a Permanent Prostate I-125 Implant: A Prospective Comparative Toxicity Analysis. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 77, 153-159.	0.4	29
84	Comparison of TG-43 and TG-186 in breast irradiation using a low energy electronic brachytherapy source. <i>Medical Physics</i> , 2014, 41, 061701.	1.6	29
85	A systematic characterization of the low-energy photon response of plastic scintillation detectors. <i>Physics in Medicine and Biology</i> , 2016, 61, 5569-5586.	1.6	28
86	Direct Measurement of Dissipation in the $^{35}\text{Cl}+^{12}\text{C}$ Reaction at 43 MeV/nucleon. <i>Physical Review Letters</i> , 1996, 77, 462-465.	2.9	27
87	Functional avoidance of lung in plan optimization with an aperture-based inverse planning system. <i>Radiotherapy and Oncology</i> , 2011, 100, 390-395.	0.3	27
88	Comparison of dose and catheter optimization algorithms in prostate high-dose-rate brachytherapy. <i>Brachytherapy</i> , 2016, 15, 102-111.	0.2	27
89	Brachytherapy Future Directions. <i>Seminars in Radiation Oncology</i> , 2020, 30, 94-106.	1.0	27
90	Anatomy-based inverse planning dose optimization in HDR prostate implant: A toxicity study. <i>Radiotherapy and Oncology</i> , 2005, 75, 318-324.	0.3	26

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91	Surface preparation and coupling in plastic scintillator dosimetry. <i>Medical Physics</i> , 2006, 33, 3519-3525.	1.6	26
92	Towards real-time 3D ultrasound planning and personalized 3D printing for breast HDR brachytherapy treatment. <i>Radiotherapy and Oncology</i> , 2015, 114, 335-338.	0.3	26
93	Probing midrapidity source characteristics with charged particles and neutrons in the $^{35}\text{Cl}+\text{natT}$ reaction at 43 MeV/nucleon. <i>Physical Review C</i> , 1999, 59, R565-R569.	1.1	25
94	Quasiclassical model of intermediate velocity particle production in asymmetric heavy ion reactions. <i>Physical Review C</i> , 2002, 65, .	1.1	25
95	A maximum likelihood method for high resolution proton radiography/proton CT. <i>Physics in Medicine and Biology</i> , 2016, 61, 8232-8248.	1.6	25
96	A GPU-based multi-criteria optimization algorithm for HDR brachytherapy. <i>Physics in Medicine and Biology</i> , 2019, 64, 105005.	1.6	25
97	New method for the discrimination of single-source events in heavy-ion collisions. <i>Physical Review C</i> , 2000, 62, .	1.1	24
98	Clinical Outcome of Adjuvant Treatment of Endometrial Cancer Using Aperture-Based Intensity-Modulated Radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 71, 1343-1350.	0.4	24
99	Real-time verification of multileaf collimator-driven radiotherapy using a novel optical attenuation-based fluence monitor. <i>Medical Physics</i> , 2011, 38, 1459-1467.	1.6	24
100	Medical physics staffing for radiation oncology: a decade of experience in Ontario, Canada. <i>Journal of Applied Clinical Medical Physics</i> , 2012, 13, 93-110.	0.8	24
101	Optimization of a multipoint plastic scintillator dosimeter for high dose rate brachytherapy. <i>Medical Physics</i> , 2019, 46, 2412-2421.	1.6	24
102	Heating $^{197}\text{Au}$ Nuclei with 8 GeV/c Antiproton and $^{\sim}\text{Be}$ Beams. <i>Physical Review Letters</i> , 1999, 83, 4033-4036.	2.9	23
103	A design methodology using signal-to-noise ratio for plastic scintillation detectors design and performance optimization. <i>Medical Physics</i> , 2009, 36, 5214-5220.	1.6	23
104	Thermal excitation-energy deposition in $^{15}\text{GeV}$ /chadron-induced reactions with $^{197}\text{Au}$ . I. Reconstruction of thermal source properties. <i>Physical Review C</i> , 2001, 64, .	1.1	22
105	Comparison of midvelocity fragment formation with projectilelike decay. <i>Physical Review C</i> , 2005, 71, .	1.1	22
106	Prostatic edema in $^{125}\text{I}$ permanent prostate implants: Dynamical dosimetry taking volume changes into account. <i>Medical Physics</i> , 2006, 33, 574-583.	1.6	22
107	An opposite view data replacement approach for reducing artifacts due to metallic dental objects. <i>Medical Physics</i> , 2011, 38, 2275-2281.	1.6	22
108	Origins of intermediate velocity particle production in heavy ion reactions. <i>Physical Review C</i> , 2002, 65, .	1.1	21



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109	Multiobjective optimization with a modified simulated annealing algorithm for external beam radiotherapy treatment planning. <i>Medical Physics</i> , 2006, 33, 4718-4729.	1.6	21
110	Dose to tissue medium or water cavities as surrogate for the dose to cell nuclei at brachytherapy photon energies. <i>Physics in Medicine and Biology</i> , 2012, 57, 4489-4500.	1.6	21
111	In-phantom dose verification of prostate IMRT and VMAT deliveries using plastic scintillation detectors. <i>Radiation Measurements</i> , 2012, 47, 921-929.	0.7	21
112	Correction of megavoltage cone-beam CT images for dose calculation in the head and neck region. <i>Medical Physics</i> , 2008, 35, 900-907.	1.6	20
113	Sub-second high dose rate brachytherapy Monte Carlo dose calculations with <b>GPUMCD</b> . <i>Medical Physics</i> , 2012, 39, 4559-4567.	1.6	20
114	Water-dispersable colloidal quantum dots for the detection of ionizing radiation. <i>Chemical Communications</i> , 2013, 49, 11629.	2.2	20
115	Intratumoral Injection of Low-Energy Photon-Emitting Gold Nanoparticles: A Microdosimetric Monte Carlo-Based Model. <i>ACS Nano</i> , 2018, 12, 2482-2497.	7.3	20
116	Dosimetric performance of a multipoint plastic scintillator dosimeter as a tool for real-time source tracking in high dose rate Ir brachytherapy. <i>Medical Physics</i> , 2020, 47, 4477-4490.	1.6	20
117	Breakup time scale studied in the $8\text{ GeV}/c\text{ }^{197}\text{Au}$ reaction. <i>Physical Review C</i> , 2002, 65, .	1.1	19
118	Image-guided high-dose-rate brachytherapy boost to the dominant intraprostatic lesion using multiparametric magnetic resonance imaging including spectroscopy: Results of a prospective study. <i>Brachytherapy</i> , 2016, 15, 746-751.	0.2	19
119	Calibration of plastic phoswich detectors for charged particle detection. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1996, 374, 63-69.	0.7	18
120	Thermal expansion effects in the $8\text{ GeV}/c\text{ }^{197}\text{Au}$ reaction. <i>Physical Review C</i> , 2000, 62, .	1.1	18
121	Simultaneous optimization of beam orientations, wedge filters and field weights for inverse planning with anatomy-based MLC fields. <i>Medical Physics</i> , 2004, 31, 1546-1557.	1.6	18
122	Commissioning and evaluation of an extended SSD photon model for <b>PINNACLE</b> <sup>3</sup> : An application to total body irradiation. <i>Medical Physics</i> , 2009, 36, 3844-3855.	1.6	18
123	Simulation of the precision limits of plastic scintillation detectors using optimal component selection. <i>Medical Physics</i> , 2010, 37, 412-418.	1.6	18
124	High resolution 2D dose measurement device based on a few long scintillating fibers and tomographic	1.6	18
125	Adaptation of the CVT algorithm for catheter optimization in high dose rate brachytherapy. <i>Medical Physics</i> , 2013, 40, 111724.	1.6	18
126	Calcifications in low-dose rate prostate seed brachytherapy treatment: Post-planning dosimetry and predictive factors. <i>Radiotherapy and Oncology</i> , 2015, 114, 339-344.	0.3	18



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127	Large-scale Retrospective Monte Carlo Dosimetric Study for Permanent Implant Prostate Brachytherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 97, 606-615.	0.4	18
128	Testing binomial reducibility and thermal scaling in hadron-induced multifragmentation. <i>Physical Review C</i> , 2001, 63, .	1.1	17
129	Excitation and decay of projectilelike fragments formed in dissipative peripheral collisions at intermediate energies. <i>Physical Review C</i> , 2003, 68, .	1.1	17
130	Evaluation of an electron Monte Carlo dose calculation algorithm for treatment planning. <i>Journal of Applied Clinical Medical Physics</i> , 2015, 16, 60-79.	0.8	17
131	Systematic evaluation of photodetector performance for plastic scintillation dosimetry. <i>Medical Physics</i> , 2015, 42, 6211-6220.	1.6	17
132	A high-resolution inorganic scintillator-based detector for time-resolved in vivo dosimetry during brachytherapy. <i>Medical Physics</i> , 2021, 48, 7382-7398.	1.6	17
133	Dependence of intermediate mass fragment production on the reaction mechanism in light heavy-ion collisions at intermediate energy. <i>Physical Review C</i> , 1996, 53, 823-837.	1.1	16
134	Z-Dependent Barriers in Multifragmentation from Poissonian Reducibility and Thermal Scaling. <i>Physical Review Letters</i> , 1998, 81, 770-773.	2.9	16
135	Fission transient times from fission probabilities of neighboring isotopes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 518, 221-228.	1.5	16
136	Dissipative binary mechanisms in collisions at 25A and 35A MeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995, 352, 8-13.	1.5	15
137	Interplay of initial deformation and Coulomb proximity on nuclear decay. <i>Physical Review C</i> , 2004, 70, .	1.1	15
138	Toward 3D dosimetry of intensity modulated radiation therapy treatments with plastic scintillation detectors. <i>Journal of Physics: Conference Series</i> , 2010, 250, 012006.	0.3	15
139	Performance assessment of a 2D array of plastic scintillation detectors for IMRT quality assurance. <i>Physics in Medicine and Biology</i> , 2013, 58, 4439-4454.	1.6	15
140	Fast GPU-based Monte Carlo simulations for LDR prostate brachytherapy. <i>Physics in Medicine and Biology</i> , 2015, 60, 4973-4986.	1.6	15
141	Characterization of a plastic scintillating detector for the Small Animal Radiation Research Platform (<sc>SARRP</sc>). <i>Medical Physics</i> , 2019, 46, 394-404.	1.6	15
142	Automatic generation of anatomy-based MLC fields in aperture-based IMRT. <i>Medical Physics</i> , 2004, 31, 1539-1545.	1.6	14
143	Neutron to proton ratios of quasiprojectile and midrapidity emission in the Ni58+Ni58 reaction at 52 MeV/nucleon. <i>Physical Review C</i> , 2005, 71, .	1.1	14
144	Octree indexing of DICOM images for voxel number reduction and improvement of Monte Carlo simulation computing efficiency. <i>Medical Physics</i> , 2006, 33, 2819-2831.	1.6	14

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145	Extension of the Fermi's most-likely path in heterogeneous medium with prior knowledge information. <i>Physics in Medicine and Biology</i> , 2017, 62, 9207-9219.	1.6	14
146	Evidence for the statistical and sequential nature of $^{16}\text{O}$ breakup into four alphas. <i>Physical Review C</i> , 1993, 48, 2514-2516.	1.1	13
147	Tissue modeling schemes in low energy breast brachytherapy. <i>Physics in Medicine and Biology</i> , 2011, 56, 7045-7060.	1.6	13
148	Modeling a Hypothetical $^{170}\text{Tm}$ Source for Brachytherapy Applications. <i>Medical Physics</i> , 2011, 38, 5307-5310.	1.6	13
149	Exploring $^{57}\text{Co}$ as a new isotope for brachytherapy applications. <i>Medical Physics</i> , 2012, 39, 2342-2345.	1.6	13
150	A simplified analytical dose calculation algorithm accounting for tissue heterogeneity for low-energy brachytherapy sources. <i>Physics in Medicine and Biology</i> , 2013, 58, 6299-6315.	1.6	13
151	Quantifying the effect of seed orientation in postplanning dosimetry of low-dose-rate prostate brachytherapy. <i>Medical Physics</i> , 2014, 41, 101704.	1.6	13
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