

Luc Beaulieu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7386312/publications.pdf>

Version: 2024-02-01

330
papers

7,933
citations

57758

44
h-index

74163

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.	3.0	391
2	Isospin Diffusion and the Nuclear Symmetry Energy in Heavy Ion Reactions. <i>Physical Review Letters</i> , 2004, 92, 062701.	7.8	354
3	Isospin Fractionation in Nuclear Multifragmentation. <i>Physical Review Letters</i> , 2000, 85, 716-719.	7.8	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.	3.0	171
5	The evolution of brachytherapy treatment planning. <i>Medical Physics</i> , 2009, 36, 2136-2153.	3.0	157
6	Liquid to Vapor Phase Transition in Excited Nuclei. <i>Physical Review Letters</i> , 2002, 88, 042701.	7.8	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.	0.8	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.	0.8	142
9	Measurement accuracy and Cerenkov removal for high performance, high spatial resolution scintillation dosimetry. <i>Medical Physics</i> , 2005, 33, 128-135.	3.0	141
10	Validation of GEANT4, an object-oriented Monte Carlo toolkit, for simulations in medical physics. <i>Medical Physics</i> , 2004, 31, 484-492.	3.0	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.	3.0	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.	3.0	114
13	Correction of CT artifacts and its influence on Monte Carlo dose calculations. <i>Medical Physics</i> , 2007, 34, 2119-2132.	3.0	112
14	Signals for a Transition from Surface to Bulk Emission in Thermal Multifragmentation. <i>Physical Review Letters</i> , 2000, 84, 5971-5974.	7.8	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.	3.0	86
16	Water-equivalent dosimeter array for small-field external beam radiotherapy. <i>Medical Physics</i> , 2007, 34, 1583-1592.	3.0	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.	0.6	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.	1.6	78

#	ARTICLE	IF	CITATIONS
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.	3.0	78
20	AAPM and GECâ€ESTRO guidelines for imageâ€guided robotic brachytherapy: Report of Task Group 192. <i>Medical Physics</i> , 2014, 41, 101501.	3.0	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.	0.8	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.	3.0	77
23	A phantom study of an <i>in vivo</i> dosimetry system using plastic scintillation detectors for real-time verification of ¹⁹² Ir HDR brachytherapy. <i>Medical Physics</i> , 2011, 38, 2542-2551.	3.0	76
24	Plastic scintillation dosimetry: Optimal selection of scintillating fibers and scintillators. <i>Medical Physics</i> , 2005, 32, 2271-2278.	3.0	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.	0.8	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.	0.8	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.	0.8	67
28	Isotope yields from central Sn112,124+Sn112,124 collisions: Dynamical emission?. <i>Physical Review C</i> , 2004, 69, .	2.9	64
29	Clinical prototype of a plastic water-equivalent scintillating fiber dosimeter array for QA	3.0	64
30	A generic high-dose rate ¹⁹² Ir brachytherapy source for evaluation of model-based dose calculations beyond the TG-43 formalism. <i>Medical Physics</i> , 2015, 42, 3048-3062.	3.0	64
31	Impact of interseed attenuation and tissue composition for permanent prostate implants. <i>Medical Physics</i> , 2006, 33, 595-604.	3.0	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.	3.0	61
33	Dosimetric performance and array assessment of plastic scintillation detectors for stereotactic radiosurgery quality assurance. <i>Medical Physics</i> , 2011, 39, 429-436.	3.0	60
34	A new waterâ€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.	3.0	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.	7.8	58
36	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

#	ARTICLE	IF	CITATIONS
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.	3.0	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.	0.6	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.	3.0	55
40	Enhancements to commissioning techniques and quality assurance of brachytherapy treatment 2645-2658.	3.0	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.	3.0	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.	0.8	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.	2.9	51
44	Validating plastic scintillation detectors for photon dosimetry in the radiologic energy range. <i>Medical Physics</i> , 2012, 39, 5308-5316.	3.0	45
45	Is Tsallis Thermodynamics Nonextensive?. <i>Physical Review Letters</i> , 2001, 88, 020601.	7.8	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.	3.0	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.	3.0	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.	0.8	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.	3.0	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.	3.0	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.	0.5	43
52	Technical Note: Removing the stem effect when performing ^{192}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.	3.0	42
53	A mathematical formalism for hyperspectral, multipoint plastic scintillation detectors. <i>Physics in Medicine and Biology</i> , 2012, 57, 7133-7145.	3.0	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.	3.0	42

#	ARTICLE	IF	CITATIONS
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.	3.0	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.	3.0	38
57	Novel, full 3D scintillation dosimetry using a static plenoptic camera. <i>Medical Physics</i> , 2014, 41, 082101.	3.0	38
58	An algorithm for efficient metal artifact reductions in permanent seed implants. <i>Medical Physics</i> , 2011, 38, 47-56.	3.0	37
59	On the use of a single-fiber multipoint plastic scintillation detector for ^{192}Ir high-dose-rate brachytherapy. <i>Medical Physics</i> , 2013, 40, 062101.	3.0	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.	4.1	36
61	Light-ion-induced multifragmentation: The ISiS project. <i>Physics Reports</i> , 2006, 434, 1-46.	25.6	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.	3.0	36
63	Influence of breast composition and interseed attenuation in dose calculations for post-implant assessment of permanent breast ^{103}Pd seed implant. <i>Physics in Medicine and Biology</i> , 2010, 55, 4547-4561.	3.0	36
64	Current status of scintillation dosimetry for megavoltage beams. <i>Journal of Physics: Conference Series</i> , 2013, 444, 012013.	0.4	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.	1.6	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.	0.7	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.	3.0	34
68	A generic ^{186}Re shielded applicator for commissioning model-based dose calculation algorithms for high-dose-rate ^{192}Ir brachytherapy. <i>Medical Physics</i> , 2017, 44, 5961-5976.	3.0	34
69	Fragment production in noncentral collisions of intermediate-energy heavy ions. <i>Physical Review C</i> , 2002, 65, .	2.9	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.	0.5	33
71	Source size scaling of fragment production in projectile breakup. <i>Physical Review C</i> , 1996, 54, R973-R976.	2.9	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.	0.8	32

#	ARTICLE	IF	CITATIONS
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.	3.0	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.	0.9	32
75	Formation of a necklike structure in $^{35}\text{Cl}+^{12}\text{C}$ and ^{197}Au reactions at 43 MeV/nucleon. <i>Physical Review C</i> , 1997, 55, 1869-1880.	2.9	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.	0.6	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.	3.0	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.	0.6	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.	3.0	31
80	Measurements of low-energy (d,n) reactions for BNCT. <i>Medical Physics</i> , 1999, 26, 793-798.	3.0	30
81	Thermal excitation-energy deposition in $5\alpha\text{-}^{15}\text{GeV}/\text{chadron}$ -induced reactions with ^{197}Au . II. Relation between excitation energy and reaction variables. <i>Physical Review C</i> , 2001, 64, .	2.9	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.	0.8	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.	0.8	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.	3.0	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.	3.0	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.	7.8	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.	0.6	27
88	Comparison of dose and catheter optimization algorithms in prostate high-dose-rate brachytherapy. <i>Brachytherapy</i> , 2016, 15, 102-111.	0.5	27
89	Brachytherapy Future Directions. <i>Seminars in Radiation Oncology</i> , 2020, 30, 94-106.	2.2	27
90	Anatomy-based inverse planning dose optimization in HDR prostate implant: A toxicity study. <i>Radiotherapy and Oncology</i> , 2005, 75, 318-324.	0.6	26

#	ARTICLE	IF	CITATIONS
91	Surface preparation and coupling in plastic scintillator dosimetry. <i>Medical Physics</i> , 2006, 33, 3519-3525.	3.0	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.	0.6	26
93	Probing midrapidity source characteristics with charged particles and neutrons in the $^{35}\text{Cl} + \text{natTa}$ reaction at 43 MeV/nucleon. <i>Physical Review C</i> , 1999, 59, R565-R569.	2.9	25
94	Quasiclassical model of intermediate velocity particle production in asymmetric heavy ion reactions. <i>Physical Review C</i> , 2002, 65, .	2.9	25
95	A maximum likelihood method for high resolution proton radiography/proton CT. <i>Physics in Medicine and Biology</i> , 2016, 61, 8232-8248.	3.0	25
96	A GPU-based multi-criteria optimization algorithm for HDR brachytherapy. <i>Physics in Medicine and Biology</i> , 2019, 64, 105005.	3.0	25
97	New method for the discrimination of single-source events in heavy-ion collisions. <i>Physical Review C</i> , 2000, 62, .	2.9	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.	0.8	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.	3.0	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.	1.9	24
101	Optimization of a multipoint plastic scintillator dosimeter for high dose rate brachytherapy. <i>Medical Physics</i> , 2019, 46, 2412-2421.	3.0	24
102	Heating ^{197}Au Nuclei with 8 GeV/c Antiproton and $^{\sim}\text{Be}$ Beams. <i>Physical Review Letters</i> , 1999, 83, 4033-4036.	7.8	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.	3.0	23
104	Thermal excitation-energy deposition in ^{15}GeV /chadron-induced reactions with ^{197}Au . Reconstruction of thermal source properties. <i>Physical Review C</i> , 2001, 64, .	2.9	22
105	Comparison of midvelocity fragment formation with projectilelike decay. <i>Physical Review C</i> , 2005, 71, .	2.9	22
106	Prostatic edema in ^{125}I permanent prostate implants: Dynamical dosimetry taking volume changes into account. <i>Medical Physics</i> , 2006, 33, 574-583.	3.0	22
107	An opposite view data replacement approach for reducing artifacts due to metallic dental objects. <i>Medical Physics</i> , 2011, 38, 2275-2281.	3.0	22
108	Origins of intermediate velocity particle production in heavy ion reactions. <i>Physical Review C</i> , 2002, 65, .	2.9	21

#	ARTICLE	IF	CITATIONS
109	Multiobjective optimization with a modified simulated annealing algorithm for external beam radiotherapy treatment planning. <i>Medical Physics</i> , 2006, 33, 4718-4729.	3.0	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.	3.0	21
111	In-phantom dose verification of prostate IMRT and VMAT deliveries using plastic scintillation detectors. <i>Radiation Measurements</i> , 2012, 47, 921-929.	1.4	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.	3.0	20
113	Sub-second high dose rate brachytherapy Monte Carlo dose calculations with GPUMCD . <i>Medical Physics</i> , 2012, 39, 4559-4567.	3.0	20
114	Water-dispersable colloidal quantum dots for the detection of ionizing radiation. <i>Chemical Communications</i> , 2013, 49, 11629.	4.1	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.	14.6	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.	3.0	20
117	Breakup time scale studied in the $8\text{ GeV}/c\bar{\nu}_e + ^{197}\text{Au}$ reaction. <i>Physical Review C</i> , 2002, 65, .	2.9	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.	0.5	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.	1.6	18
120	Thermal expansion effects in the $8\text{ GeV}/c\bar{\nu}_e + ^{197}\text{Au}$ reaction. <i>Physical Review C</i> , 2000, 62, .	2.9	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.	3.0	18
122	Commissioning and evaluation of an extended SSD photon model for PINNACLE ³ : An application to total body irradiation. <i>Medical Physics</i> , 2009, 36, 3844-3855.	3.0	18
123	Simulation of the precision limits of plastic scintillation detectors using optimal component selection. <i>Medical Physics</i> , 2010, 37, 412-418.	3.0	18
124	High resolution 2D dose measurement device based on a few long scintillating fibers and tomographic	3.0	18
125	Adaptation of the CVT algorithm for catheter optimization in high dose rate brachytherapy. <i>Medical Physics</i> , 2013, 40, 111724.	3.0	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.	0.6	18

#	ARTICLE	IF	CITATIONS
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.	0.8	18
128	Testing binomial reducibility and thermal scaling in hadron-induced multifragmentation. <i>Physical Review C</i> , 2001, 63, .	2.9	17
129	Excitation and decay of projectilelike fragments formed in dissipative peripheral collisions at intermediate energies. <i>Physical Review C</i> , 2003, 68, .	2.9	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.	1.9	17
131	Systematic evaluation of photodetector performance for plastic scintillation dosimetry. <i>Medical Physics</i> , 2015, 42, 6211-6220.	3.0	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.	3.0	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.	2.9	16
134	Z-Dependent Barriers in Multifragmentation from Poissonian Reducibility and Thermal Scaling. <i>Physical Review Letters</i> , 1998, 81, 770-773.	7.8	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.	4.1	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.	4.1	15
137	Interplay of initial deformation and Coulomb proximity on nuclear decay. <i>Physical Review C</i> , 2004, 70, .	2.9	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.	0.4	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.	3.0	15
140	Fast GPU-based Monte Carlo simulations for LDR prostate brachytherapy. <i>Physics in Medicine and Biology</i> , 2015, 60, 4973-4986.	3.0	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.	3.0	15
142	Automatic generation of anatomy-based MLC fields in aperture-based IMRT. <i>Medical Physics</i> , 2004, 31, 1539-1545.	3.0	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, .	2.9	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.	3.0	14

#	ARTICLE	IF	CITATIONS
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.	3.0	14
146	Evidence for the statistical and sequential nature of ^{16}O breakup into four alphas. <i>Physical Review C</i> , 1993, 48, 2514-2516.	2.9	13
147	Tissue modeling schemes in low energy breast brachytherapy. <i>Physics in Medicine and Biology</i> , 2011, 56, 7045-7060.	3.0	13
148	Modeling a Hypothetical ^{170}Tm Source for Brachytherapy Applications. <i>Medical Physics</i> , 2011, 38, 5307-5310.	3.0	13
149	Exploring ^{57}Co as a new isotope for brachytherapy applications. <i>Medical Physics</i> , 2012, 39, 2342-2345.	3.0	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.	3.0	13
151	Quantifying the effect of seed orientation in postplanning dosimetry of low-dose-rate prostate brachytherapy. <i>Medical Physics</i> , 2014, 41, 101704.	3.0	13
152	Benchmarking a novel inorganic scintillation detector for applications in radiation therapy. <i>Physica Medica</i> , 2019, 68, 124-131.	0.7	13
153	3D source tracking and error detection in HDR using two independent scintillator dosimetry systems. <i>Medical Physics</i> , 2021, 48, 2095-2107.	3.0	13
154	Tracking the phase-transition energy in the disassembly of hot nuclei. <i>Physical Review C</i> , 2002, 66, .	2.9	12
155	Fragment isospin as a probe of heavy-ion collisions. <i>Physical Review C</i> , 2002, 65, .	2.9	12
156	Optimization of photon beam energy in aperture-based inverse planning. <i>Journal of Applied Clinical Medical Physics</i> , 2009, 10, 36-54.	1.9	12
157	Correction of megavoltage cone-beam CT images of the pelvic region based on phantom measurements for dose calculation purposes. <i>Journal of Applied Clinical Medical Physics</i> , 2009, 10, 33-42.	1.9	12
158	Use of 3D transabdominal ultrasound imaging for treatment planning in cervical cancer brachytherapy: Comparison to magnetic resonance and computed tomography. <i>Brachytherapy</i> , 2017, 16, 847-854.	0.5	12
159	Comparative optic and dosimetric characterization of the HYPERSCINT scintillation dosimetry research platform for multipoint applications. <i>Physics in Medicine and Biology</i> , 2021, 66, 085009.	3.0	12
160	Validation of the TOPAS Monte Carlo toolkit for HDR brachytherapy simulations. <i>Brachytherapy</i> , 2021, 20, 911-921.	0.5	12
161	Caloric curve of $^{8}\text{GeV}/c^2$ ^{197}Au reactions. <i>Physical Review C</i> , 2002, 66, .	2.9	11
162	Automatic post-implant needle reconstruction algorithm to characterize and improve implant robustness analyses. <i>Medical Physics</i> , 2003, 30, 2897-2903.	3.0	11

#	ARTICLE	IF	CITATIONS
163	A novel approach for reducing metal artifacts due to metallic dental implants. , 2006, , .		11
164	3D heterogeneous dose distributions for total body irradiation patients. Journal of Applied Clinical Medical Physics, 2011, 12, 205-214.	1.9	11
165	Breakup of highly excited ^{35}Cl projectiles on a gold target at 30 A MeV: An exclusive analysis. Nuclear Physics A, 1994, 580, 81-99.	1.5	10
166	Pionic Fusion of Heavy Ions. Physical Review Letters, 1996, 77, 2408-2411.	7.8	10
167	Sliding slice: A novel approach for high accuracy and automatic 3D localization of seeds from CT scans. Medical Physics, 2004, 32, 163-174.	3.0	10
168	Cooling dynamics in multi-fragmentation processes. Europhysics Letters, 2006, 74, 806-812.	2.0	10
169	Dose escalation in the radiotherapy of non-small-cell lung cancer with aperture-based intensity modulation and photon beam energy optimization for non-preselected patients. Radiotherapy and Oncology, 2009, 91, 342-348.	0.6	10
170	Three-dimensional ultrasound system for guided breast brachytherapy. Medical Physics, 2009, 36, 5099-5106.	3.0	10
171	3D tomodosimetry using long scintillating fibers: A feasibility study. Medical Physics, 2013, 40, 101703.	3.0	10
172	Dose perturbation due to catheter materials in high-dose-rate interstitial ^{192}Ir brachytherapy. Brachytherapy, 2014, 13, 627-631.	0.5	10
173	The collapsed cone algorithm for ^{192}Ir dosimetry using phantom-size adaptive multiple-scatter point kernels. Physics in Medicine and Biology, 2015, 60, 5313-5323.	3.0	10
174	Validation of plastic scintillation detectors for applications in low-dose-rate brachytherapy. Brachytherapy, 2017, 16, 903-909.	0.5	10
175	Evaluating the impact of real-time multicriteria optimizers integrated with interactive plan navigation tools for HDR brachytherapy. Brachytherapy, 2020, 19, 607-617.	0.5	10
176	Postoperative Irradiation of Gynecologic Malignancies: Improving Treatment Delivery Using Aperture-Based Intensity-Modulated Radiotherapy. International Journal of Radiation Oncology Biology Physics, 2007, 68, 601-611.	0.8	9
177	Attenuator design for organs at risk in total body irradiation using a translation technique. Medical Physics, 2008, 35, 1663-1669.	3.0	9
178	Relationship between isotope half-life and prostatic edema for optimal prostate dose coverage in permanent seed implants. Medical Physics, 2008, 35, 1970-1977.	3.0	9
179	Investigation of geometric distortions on magnetic resonance and cone beam computed tomography images used for planning and verification of high-dose rate brachytherapy cervical cancer treatment. Brachytherapy, 2010, 9, 266-273.	0.5	9
180	Monte Carlo dosimetry of high dose rate gynecologic interstitial brachytherapy. Radiotherapy and Oncology, 2013, 109, 425-429.	0.6	9

#	ARTICLE	IF	CITATIONS
181	A multi-criteria optimization approach for HDR prostate brachytherapy: I. Pareto surface approximation. <i>Physics in Medicine and Biology</i> , 2018, 63, 205004.	3.0	9
182	Investigation of the quinine sulfate dihydrate spectral properties and its effects on Cherenkov dosimetry. <i>Physics in Medicine and Biology</i> , 2019, 64, 155019.	3.0	9
183	Technical Note: Identification of an optimal electromagnetic sensor for <i>in vivo</i> electromagnetic-tracked scintillation dosimeter for HDR brachytherapy. <i>Medical Physics</i> , 2019, 46, 2031-2036.	3.0	9
184	Future directions of in vivo dosimetry for external beam radiotherapy and brachytherapy. <i>Physics and Imaging in Radiation Oncology</i> , 2020, 16, 18-19.	2.9	9
185	Excitation energy evolution and multi-particle correlations in heavy ion peripheral collisions at intermediate energies. <i>Nuclear Physics A</i> , 1992, 545, 363-368.	1.5	8
186	Fragment emission time from well defined sources in $^{58}\text{Ni}+^{197}\text{Au}$ at 34.5 MeV/nucleon. <i>Physical Review C</i> , 2000, 63, .	2.9	8
187	Idealized line source configuration for permanent ^{125}I prostate implants. <i>Radiotherapy and Oncology</i> , 2004, 72, 213-220.	0.6	8
188	Comment on "Plastic scintillation dosimetry: comparison of three solutions for the Cerenkov challenge". <i>Physics in Medicine and Biology</i> , 2012, 57, 3661-3665.	3.0	8
189	Robust shell passivation of CdSe colloidal quantum dots to stabilize radioluminescence emission. <i>AIP Advances</i> , 2016, 6, 105011.	1.3	8
190	Multicenter Evaluation of Biochemical Relapse-Free Survival Outcomes for Intraoperatively Planned Prostate Brachytherapy Using an Automated Delivery System. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 99, 895-903.	0.8	8
191	EM-enhanced US-based seed detection for prostate brachytherapy. <i>Medical Physics</i> , 2018, 45, 2357-2368.	3.0	8
192	Technical Note: On EM reconstruction of a multi channel shielded applicator for cervical cancer brachytherapy: A feasibility study.. <i>Medical Physics</i> , 2018, 45, 1673-1676.	3.0	8
193	A multi-criteria optimization approach for HDR prostate brachytherapy: II. Benchmark against clinical plans. <i>Physics in Medicine and Biology</i> , 2018, 63, 205005.	3.0	8
194	Characterization of a binary system composed of luminescent quantum dots for liquid scintillation. <i>Physics in Medicine and Biology</i> , 2018, 63, 175012.	3.0	8
195	Dosimetric properties of colloidal quantum dot-based systems for scintillation dosimetry. <i>Physics in Medicine and Biology</i> , 2019, 64, 095027.	3.0	8
196	Statistical signatures of the quasi-projectile breakup at 70A MeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994, 323, 103-106.	4.1	7
197	Patient-Specific Monte Carlo-Based Dose-Kernel Approach for Inverse Planning in Afterloading Brachytherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 81, 1582-1589.	0.8	7
198	Technical Note: Determining regions of interest for CCD camera-based fiber optic luminescence dosimetry by examining signal-to-noise ratio. <i>Medical Physics</i> , 2011, 38, 1374-1377.	3.0	7

#	ARTICLE	IF	CITATIONS
199	Extraction of depth-dependent perturbation factors for silicon diodes using a plastic scintillation detector. <i>Medical Physics</i> , 2011, 38, 5441-5447.	3.0	7
200	Consequences of dose heterogeneity on the biological efficiency of ¹⁰³ Pd permanent breast seed implants. <i>Physics in Medicine and Biology</i> , 2012, 57, 809-823.	3.0	7
201	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
202	Performance of an enhanced afterloader with electromagnetic tracking capabilities for channel reconstruction and error detection. <i>Medical Physics</i> , 2021, 48, 4402-4410.	3.0	7
203	Commissioning of an intra-operative US guided prostate HDR system integrating an EM tracking technology. <i>Brachytherapy</i> , 2021, 20, 1296-1304.	0.5	7
204	Statistical and sequential breakup of ²⁴ Mg in peripheral reactions at intermediate energies. <i>Nuclear Physics A</i> , 1995, 583, 427-432.	1.5	6
205	Target proximity effect and dynamical projectile breakup at intermediate energies. <i>Nuclear Physics A</i> , 2004, 739, 15-29.	1.5	6
206	On the Sensitivity of $\hat{I} \pm \hat{I}^2$ Prediction to Dose Calculation Methodology in Prostate Brachytherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 88, 345-350.	0.8	6
207	Coupling ¹²⁵ I permanent implant prostate brachytherapy Monte Carlo dose calculations with radiobiological models. <i>Medical Physics</i> , 2017, 44, 4329-4340.	3.0	6
208	Preclinical dose verification using a 3D printed mouse phantom for radiobiology experiments. <i>Medical Physics</i> , 2019, 46, 5294-5303.	3.0	6
209	Centrality dependence of the thermal excitation-energy deposition in $8 \leq E < 15$ GeV/chadron-Au reactions. <i>Physical Review C</i> , 2009, 79, .	2.9	5
210	Accurate calibration of a polymer gel dosimeter with a plastic scintillation detector. <i>Medical Physics</i> , 2011, 38, 2754-2761.	3.0	5
211	A Novel Approach for Real-Time, Personalized Breast HDR Brachytherapy Treatment Using 3D Printing Technology. <i>Brachytherapy</i> , 2014, 13, S18.	0.5	5
212	Validation of a novel robot-assisted 3DUS system for real-time planning and guidance of breast interstitial HDR brachytherapy. <i>Medical Physics</i> , 2015, 42, 6830-6839.	3.0	5
213	Does prostate volume has an impact on biochemical failure in patients with localized prostate cancer treated with HDR boost?. <i>Radiotherapy and Oncology</i> , 2016, 121, 304-309.	0.6	5
214	Does Seed Migration Increase the Risk of Second Malignancies in Prostate Cancer Patients Treated With Iodine-125 Loose Seeds Brachytherapy?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 100, 1190-1194.	0.8	5
215	The association of intraprostatic calcifications and dosimetry parameters with biochemical control after permanent prostate implant. <i>Brachytherapy</i> , 2019, 18, 787-792.	0.5	5
216	Excitation energies in statistical emission of light charged particles in heavy-ion reactions. <i>Physical Review C</i> , 1995, 51, 3492-3495.	2.9	4

#	ARTICLE	IF	CITATIONS
217	Time scale in ^{24}Mg projectile breakup at 25A and 35A MeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 373, 40-44.	4.1	4
218	Symmetrization of emitter size in violent α -heavy ion collisions at intermediate energy. <i>Physical Review C</i> , 1998, 57, R1027-R1031.	2.9	4
219	Effects of in-medium cross sections and optical potential on thermal-source formation in $p+Au$ reactions at $6.2 \leq \sqrt{s} \leq 14.6 \text{ GeV}$. <i>Physical Review C</i> , 2004, 70, .	2.9	4
220	Catheters optimization within inverse planning simulated annealing for high-dose-rate brachytherapy. <i>Brachytherapy</i> , 2008, 7, 168.	0.5	4
221	A More Efficient, Radiation-Free Alternative to Systematic Chest X-Ray for the Detection of Embolized Seeds to the Lung. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 78, 1052-1056.	0.8	4
222	Real-time electromagnetic seed drop detection for permanent implants brachytherapy: Technology overview and performance assessment. <i>Medical Physics</i> , 2016, 43, 6217-6225.	3.0	4
223	The Clinical Efficiency and Learning Curve of Ultrasound (us)-Based Planning in High Dose Rate (hdr) Prostate Brachytherapy. <i>Brachytherapy</i> , 2018, 17, S34-S35.	0.5	4
224	Inter-observer evaluation of a GPU-based multicriteria optimization algorithm combined with plan navigation tools for HDR brachytherapy. <i>Brachytherapy</i> , 2022, 21, 551-560.	0.5	4
225	Exclusive multidetection and study of projectile breakup at 25 and 35A MeV in. <i>Nuclear Physics A</i> , 1996, 609, 108-130.	1.5	3
226	Isospin fractionation in nuclear fragmentation. <i>Nuclear Physics A</i> , 2001, 681, 299-308.	1.5	3
227	Absolute calibration of polymer gel dosimeters using scintillating fibers. <i>Journal of Physics: Conference Series</i> , 2006, 56, 242-244.	0.4	3
228	Monte Carlo dose calculations for phantoms with hip prostheses. <i>Journal of Physics: Conference Series</i> , 2008, 102, 012001.	0.4	3
229	Special section: Selected papers from the Fourth International Workshop on Recent Advances in Monte Carlo Techniques for Radiation Therapy. <i>Physics in Medicine and Biology</i> , 2012, 57, .	3.0	3
230	A stochastic frontier analysis for enhanced treatment quality of high-dose-rate brachytherapy plans. <i>Physics in Medicine and Biology</i> , 2019, 64, 065012.	3.0	3
231	Colloidal Quantum Dot-Doped Optical Fibers for Scintillation Dosimetry. <i>IEEE Transactions on Nuclear Science</i> , 2020, 67, 1040-1044.	2.0	3
232	Recent Advances and Clinical Applications of Plastic Scintillators in the Field of Radiation Therapy. <i>Topics in Applied Physics</i> , 2021, , 425-460.	0.8	3
233	Modern Principles of Brachytherapy Physics. , 2010, , 224-244.		3
234	Medical Range Radiation Dosimeter Based on Polymer-Embedded Fiber Bragg Gratings. <i>Sensors</i> , 2021, 21, 8139.	3.8	3

#	ARTICLE	IF	CITATIONS
235	Production and decay of excited quasiprojectiles in peripheral and semiperipheral $^{35}\text{Cl}+^{197}\text{Au}$ reactions in Fermi energy domain. <i>Physical Review C</i> , 1999, 59, 269-284.	2.9	2
236	Fusion and decay in $^{24}\text{Mg}+^{12}\text{C}$ at $\hat{\text{A}}\text{MeV}$. <i>Nuclear Physics A</i> , 2002, 700, 42-58.	1.5	2
237	Monte Carlo iodine brachytherapy dosimetry: study for a clinical application. <i>Journal of Physics: Conference Series</i> , 2008, 102, 012011.	0.4	2
238	Improvement in the accuracy of polymer gel dosimeters using scintillating fibers. <i>Journal of Physics: Conference Series</i> , 2010, 250, 012076.	0.4	2
239	The Dimensional Synthesis of the Linear Delta Robot for a Force-Feedback Device. , 2010, , .		2
240	A Generic High-Dose-Rate ^{192}Ir Source Model for Model-Based Dose Calculation Methods in Brachytherapy Beyond the TG-43 Formalism. <i>Brachytherapy</i> , 2013, 12, S62-S63.	0.5	2
241	An Adaptive Point Kernel Approach for Improved Skin Dose Determination Using a Collapsed Cone Superposition Algorithm. <i>Brachytherapy</i> , 2013, 12, S12.	0.5	2
242	Use of 3D-Ultrasound for Cervical Cancer Brachytherapy: An Imaging Technique to Improve Treatment Planning. <i>Brachytherapy</i> , 2016, 15, S92-S93.	0.5	2
243	Dose to the bladder neck is not correlated with urinary toxicity in patients with prostate cancer treated with HDR brachytherapy boost. <i>Brachytherapy</i> , 2020, 19, 584-588.	0.5	2
244	Light-Generating CdSe/CdS Colloidal Quantum Dot-Doped Plastic Optical Fibers. <i>ACS Applied Nano Materials</i> , 2020, 3, 6478-6488.	5.0	2
245	Evaluation of an automatic needle-loading system. <i>Journal of Applied Clinical Medical Physics</i> , 2004, 5, 82-90.	1.9	2
246	ÄEerenkov and its solutions. <i>Imaging in Medical Diagnosis and Therapy</i> , 2016, , 73-83.	0.0	2
247	On the use of machine learning methods for mPSD calibration in HDR brachytherapy. <i>Physica Medica</i> , 2021, 91, 73-79.	0.7	2
248	Lead-doped scintillator dosimeters for detection of ultrahigh dose-rate x-rays. <i>Physics in Medicine and Biology</i> , 2022, 67, 105007.	3.0	2
249	Evidence for Dynamical Fragment Production?. <i>Physical Review Letters</i> , 1998, 81, 4021-4021.	7.8	1
250	Heating nuclei with 8 GeV/c antiprotons. <i>Nuclear Physics A</i> , 1999, 655, c275-c280.	1.5	1
251	Individualized Margins in 3D Conformal Radiotherapy Planning for Lung Cancer: Analysis of Physiological Movements and Their Dosimetric Impacts. <i>Medical Dosimetry</i> , 2008, 33, 48-54.	0.9	1
252	Prostate Postbrachytherapy Seed Distribution: Comparison of High-Resolution, Contrast-Enhanced, T1- and T2-Weighted Endorectal Magnetic Resonance Imaging Versus Computed Tomography: Initial Experience: In Regard to Bloch et al. (<i>Int J Radiat Oncol Biol Phys</i> 2007;69:70â€“78). <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 71, 1289.	0.8	1

#	ARTICLE	IF	CITATIONS
253	Automatic contour retrieval in annotated trus prostate images. , 2008, , .		1
254	Different Tissue Modeling Schemes in Post-implant Assessment of Breast LDR Brachytherapy. Brachytherapy, 2011, 10, S32.	0.5	1
255	3D tomodosimetry using scintillating fibers: proof-of-concept. Journal of Physics: Conference Series, 2013, 444, 012023.	0.4	1
256	Establishing Universal Test Cases for Benchmarking Model-Based Dose Calculations beyond TG-43. Brachytherapy, 2014, 13, S50.	0.5	1
257	Characterization of a fiber-taper charge-coupled device system for plastic scintillation dosimetry and comparison with the traditional lens system. Radiation Measurements, 2015, 73, 60-68.	1.4	1
258	Advances in Radiotherapy for Prostate Cancer Treatment. Prostate Cancer, 2016, 2016, 1-2.	0.6	1
259	Monte Carlo calculation of the dose perturbations in a dual-source HDR/PDR afterloader treatment unit. Brachytherapy, 2016, 15, 524-530.	0.5	1
260	Clinical Outcomes in Patients Treated with Selective HDR Image-Guided Boost to Dominant Intra-Prostatic Lesion. Brachytherapy, 2016, 15, S52.	0.5	1
261	Does Delay From Prostate Cancer Diagnosis to Treatment With Permanent Seed Implantation Increase the Risk of Disease Recurrence in Men With Clinically Localized Prostate Cancer?. International Journal of Radiation Oncology Biology Physics, 2017, 99, E271-E272.	0.8	1
262	Preliminary investigation of a luminescent colloidal quantum dots-based liquid scintillator. Journal of Physics: Conference Series, 2017, 847, 012043.	0.4	1
263	A High-Performance Dosimetry System for In Vivo HDR Brachytherapy: Real Time Source Tracking and Dose Measurements. Brachytherapy, 2019, 18, S19-S20.	0.5	1
264	Commissioning and Clinical Use of the Uronav Therapy System with the Electromagnetic Tracking Technology for Intra-Op US Guided Prostate HDR. Brachytherapy, 2019, 18, S64-S65.	0.5	1
265	Towards an Ultra-Fast GPU-Based Multi-Criteria Optimization Algorithm for HDR Brachytherapy. Brachytherapy, 2019, 18, S23-S24.	0.5	1
266	Monte Carlo dosimetric characterization of a new high dose rate Yb brachytherapy source and independent verification using a multipoint plastic scintillator detector. Medical Physics, 2020, 47, 4563-4573.	3.0	1
267	WEâ€Câ€BRBâ€04: BEST IN PHYSICS (THERAPY) â€A Novel Multiâ€Point Plastic Scintillation Detector for in Vivo Dosimetry and Quality Assurance in Radiation Therapy. Medical Physics, 2012, 39, 3967-3967.	3.0	1
268	TU-E-116-01: Clinical Implementation for Advanced Brachytherapy Dose Calculation Algorithms Beyond the TG-43 Formalism. Medical Physics, 2013, 40, 450-450.	3.0	1
269	Image-Guided High-Dose-Rate (HDR) Boost Localization Using MRI/MR Spectroscopy: A Correlation Study with Biopsy. Cureus, 2016, 8, e795.	0.5	1
270	Comparison of novel shielded nasopharynx applicator designs for intracavitary brachytherapy. Brachytherapy, 2022, 21, 229-237.	0.5	1

#	ARTICLE	IF	CITATIONS
271	Accurate dose measurements using Cherenkov emission polarization imaging. <i>Medical Physics</i> , 2022, , .	3.0	1
272	External beam irradiation angle measurement using a hybrid Cherenkov-scintillation detector. <i>Physics in Medicine and Biology</i> , 2022, 67, 105011.	3.0	1
273	An exclusive analysis of dissipation for light heavy-ion collisions at intermediate energy within the hybrid model. <i>Nuclear Physics A</i> , 1996, 611, 370-391.	1.5	0
274	Heavy ion response of amorphous silicon transmission detectors for particle identification. <i>IEEE Transactions on Nuclear Science</i> , 1998, 45, 676-680.	2.0	0
275	Statistical exploration of fragmentation phase space and source sizes in nuclear multifragmentation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 484, 192-197.	4.1	0
276	Setting Bounds on Critical Exponents with Event-by-Event Analysis of Nuclear Fragmentation Data. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 2002, 15, 417-426.	0.4	0
277	Impact of intraoperative treatment planning on clinical outcomes in I-125 prostate brachytherapy. <i>Brachytherapy</i> , 2007, 6, 107.	0.5	0
278	A novel method for inverse planning using Monte Carlo dose calculations in afterloading brachytherapy. <i>Brachytherapy</i> , 2008, 7, 172-173.	0.5	0
279	Recent developments in scintillating fiber detection systems in radiation therapy. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
280	Development of a 2D scintillating fiber detector for proton radiography. , 2012, , .		0
281	Acute and Late Toxicity in Patients Treated with Selective High-Dose-Rate Image-Guided Boost to Dominant Intraprostatic Lesion. <i>Brachytherapy</i> , 2013, 12, S33-S34.	0.5	0
282	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
283	Impact of Technology and Learning Curve on Migration and Seed Loss in Permanent Prostate Implants. <i>Brachytherapy</i> , 2014, 13, S70-S71.	0.5	0
284	Special section: Selected papers from the Fifth International Workshop on Monte Carlo Techniques in Medical Physics. <i>Physics in Medicine and Biology</i> , 2015, 60, 4947-4950.	3.0	0
285	Use of 3D-Ultrasound Imaging in Cervical Cancer Brachytherapy: Preliminary Report. <i>Brachytherapy</i> , 2015, 14, S55.	0.5	0
286	Real-Time EM-Tracking Based Treatment Platform for High Dose Rate Prostate Brachytherapy: End-to-End Validation and Clinical Workflows. <i>Brachytherapy</i> , 2016, 15, S38-S39.	0.5	0
287	Characterization of Electromagnetic versus Manual 3DUS-Based Catheter Tip Localization Errors in High Dose Rate Brachytherapy Procedures. <i>Brachytherapy</i> , 2016, 15, S194-S195.	0.5	0
288	A Modified TG-43 Dose Calculation Formalism for Direction Modulation Brachytherapy (DMBT) Tandem Applicator. <i>Brachytherapy</i> , 2016, 15, S32-S33.	0.5	0

#	ARTICLE	IF	CITATIONS
289	A Monte-Carlo Study of Cellular Dosimetry of Radioactive Gold-Palladium Nanoparticles Based on the Transmission Electron Microscopy Images. <i>Brachytherapy</i> , 2016, 15, S40-S41.	0.5	0
290	Monte Carlo Dose Calculations for Permanent Prostate Brachytherapy: Calcification Modelling Schemes and Sensitivity to Tissue Compositions. <i>Brachytherapy</i> , 2016, 15, S33-S34.	0.5	0
291	Abstract ID: 184 OpenDNA: An OpenCL-based GPU Monte Carlo simulation code for microdosimetry. <i>Physica Medica</i> , 2017, 42, 39-40.	0.7	0
292	Abstract ID: 186 OpenTRAK: An OpenCL-based GPU Monte Carlo simulation code for Brachytherapy dose calculation. <i>Physica Medica</i> , 2017, 42, 40.	0.7	0
293	Abstract ID: 246 Advanced dose calculations for clinical brachytherapy. <i>Physica Medica</i> , 2017, 42, 46.	0.7	0
294	On EM Reconstruction of a Mutli Channel Shielded DMBT Tandem Applicator for Cervical Cancer Brachytherapy: A Feasibility Study. <i>Brachytherapy</i> , 2017, 16, S86-S87.	0.5	0
295	Integrating Direction Modulated Brachytherapy (DMBT) Tandem Applicator into a Brachytherapy TPS. <i>Brachytherapy</i> , 2017, 16, S20.	0.5	0
296	Effect of Different Hypofractionated Regimens Combination on Clinical Outcomes in Prostate Cancer Patients Treated with High Dose-Rate Brachytherapy Boost. <i>Brachytherapy</i> , 2017, 16, S54-S55.	0.5	0
297	<scp>COMP</scp> report: <scp>CPQR</scp> technical quality control guidelines for low-dose-rate permanent seed brachytherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 13-18.	1.9	0
298	Massively Parallel Implementation of IPSA on GPU Architecture for Multi-Criteria Optimization. <i>Brachytherapy</i> , 2018, 17, S87.	0.5	0
299	The Impact of Intraprostatic Calcifications on Biochemical Control after Permanent Prostate Implant. <i>Brachytherapy</i> , 2018, 17, S20.	0.5	0
300	ULTRA-HYPO (UHF) Compared to Moderate-HYPO (MHF) Fractionated Prostate IGRT with HDR Brachytherapy BOOST: LONG TERM Toxicity, Acceptability and Efficiency of Delivery. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 105, E293-E294.	0.8	0
301	90 Ultra-Hypo (UHF) Compared to Moderate-Hypo (MHF) Fractionated Prostate IGRT with HDR Brachytherapy Boost: Long Term Toxicity, Acceptability and Efficiency of Delivery. <i>Radiotherapy and Oncology</i> , 2019, 139, S40-S41.	0.6	0
302	10 The Impact of Dose to Bladder Neck on Urinary Toxicity in Patients Treated with HDR Brachytherapy Boost for Prostate Cancer. <i>Radiotherapy and Oncology</i> , 2019, 139, S7-S8.	0.6	0
303	Feasibility of Intraprostatic Prostate Cancer Imaging with FCH-PET/CT for Preoperative Planning of Image-Guided HDR Brachytherapy. <i>Brachytherapy</i> , 2019, 18, S72.	0.5	0
304	The Impact of Dose to Bladder Neck on Urinary Toxicity in Patients Treated with HDR Brachytherapy Boost for Prostate Cancer. <i>Brachytherapy</i> , 2019, 18, S65.	0.5	0
305	PO05. <i>Brachytherapy</i> , 2021, 20, S57-S58.	0.5	0
306	OC-0044 Clinical evaluation of an interactive multi-criteria optimisation workflow for HDR brachytherapy. <i>Radiotherapy and Oncology</i> , 2021, 158, S31-S33.	0.6	0

#	ARTICLE	IF	CITATIONS
307	OC-0065 Real-time electromagnetic guidance for GYN interstitial HDR brachytherapy: a proof-of-concept. Radiotherapy and Oncology, 2021, 158, S49-S51.	0.6	0
308	PP-0150 Commissioning of a GPU-based multi-criteria optimisation algorithm for HDR brachytherapy. Radiotherapy and Oncology, 2021, 158, S113-S115.	0.6	0
309	PHSOR07 Presentation Time: 10:30 AM. Brachytherapy, 2021, 20, S26-S27.	0.5	0
310	PO-0209 Practical considerations on the use of EM tracking technology for clinical HDR brachytherapy. Radiotherapy and Oncology, 2021, 158, S168-S169.	0.6	0
311	OC-0110 Characterisation of an inorganic scintillation detector system for time resolved in vivo dosimetry. Radiotherapy and Oncology, 2021, 158, S77-S79.	0.6	0
312	OC-0066 A multi-sensor-based dosimetry platform for real time source tracking in HDR brachytherapy. Radiotherapy and Oncology, 2021, 158, S51.	0.6	0
313	PHSOR08 Presentation Time: 10:35 AM. Brachytherapy, 2021, 20, S27.	0.5	0
314	PP25 Presentation Time: 4:20 PM. Brachytherapy, 2021, 20, S22-S23.	0.5	0
315	OC-0106 US-guided EM tracked system compared to OncentraProstate for HDR brachytherapy: a first in-men study. Radiotherapy and Oncology, 2021, 158, S74-S75.	0.6	0
316	Evaluation of an automatic needle-loading system. Journal of Applied Clinical Medical Physics, 2004, 5, 82-90.	1.9	0
317	SU-FF-T-34: Inversely Planned Catheter Positions for High Dose Rate Brachytherapy of the Prostate. Medical Physics, 2005, 32, 1957-1957.	3.0	0
318	Sci-YIS Fri - 09: Small volume dosimetry with multiple scintillation probes. Medical Physics, 2005, 32, 2420-2420.	3.0	0
319	Sci-YIS Fri - 04: Clinical impact of seed density and prostate elemental composition on permanent seed implant dosimetry. Medical Physics, 2005, 32, 2419-2419.	3.0	0
320	Po-Poster - 20: Octree based compression method of DICOM images for voxel number reduction and faster Monte Carlo simulations. Medical Physics, 2005, 32, 2413-2413.	3.0	0
321	TU-E-BRB-11: Using CAD Description for Accurate Modelling in Radiation Therapy Advanced Dose Calculation. Medical Physics, 2011, 38, 3769-3769.	3.0	0
322	TU-A-BRB-06: Characterization of a Commercial Photodiode Based Plastic Scintillation Detector Prototype. Medical Physics, 2012, 39, 3886-3886.	3.0	0
323	TU-C-108-08: Characterization of a Fiber-Taper CCD Photo-Counting System for Plastic Scintillation Dosimetry and Comparison to the Traditional Lens System. Medical Physics, 2013, 40, 432-432.	3.0	0
324	Scintillation of organic materials. Imaging in Medical Diagnosis and Therapy, 2016, , 3-20.	0.0	0

#	ARTICLE	IF	CITATIONS
325	Sci-Fri PM: Radiation Therapy, Planning, Imaging, and Special Techniques - 01: On the use of proton radiography to reduce beam range uncertainties and improve patient positioning accuracy in proton therapy. <i>Medical Physics</i> , 2016, 43, 4955-4955.	3.0	0
326	6: Ultra-Hypofractionated (UHF) Compared to Moderate-Hypofractionated (MHF) Prostate IGRT with HDR Brachytherapy Boost(BB): Four-Year Toxicities and Local Control. <i>Radiotherapy and Oncology</i> , 2021, 163, S6.	0.6	0
327	OC-1044: Catheter Reconstruction Limits of an Afterloader With EMT Capabilities. <i>Radiotherapy and Oncology</i> , 2020, 152, S1095-S1096.	0.6	0
328	From conception to clinical trial: IVIST, the first multi-sensor-based platform for real-time In Vivo Source Tracking in HDR brachytherapy. <i>Journal of Physics: Conference Series</i> , 2022, 2167, 012024.	0.4	0
329	On the use of polychromatic cameras for high spatial resolution spectral dose measurements. <i>Physics in Medicine and Biology</i> , 2022, , .	3.0	0
330	Direct in-water radiation dose measurements using Cherenkov emission corrected signals from polarization imaging for a clinical radiotherapy application. <i>Scientific Reports</i> , 2022, 12, .	3.3	0