

# Luc Beaulieu

## List of Publications by Citations

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269  
papers

6,588  
citations

42  
h-index

67  
g-index

336  
ext. papers

7,353  
ext. citations

2.9  
avg, IF

5.6  
L-index

#	Paper	IF	Citations
269	Isospin diffusion and the nuclear symmetry energy in heavy ion reactions. <i>Physical Review Letters</i> , <b>2004</b> , 92, 062701	7.4	308
268	Report of the Task Group 186 on model-based dose calculation methods in brachytherapy beyond the TG-43 formalism: current status and recommendations for clinical implementation. <i>Medical Physics</i> , <b>2012</b> , 39, 6208-36	4.4	302
267	Isospin fractionation in nuclear multifragmentation. <i>Physical Review Letters</i> , <b>2000</b> , 85, 716-9	7.4	267
266	Dual-energy CT-based material extraction for tissue segmentation in Monte Carlo dose calculations. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, 2439-56	3.8	142
265	Liquid to vapor phase transition in excited nuclei. <i>Physical Review Letters</i> , <b>2002</b> , 88, 042701	7.4	139
264	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> , <b>2004</b> , 60, 30-9	4	135
263	The evolution of brachytherapy treatment planning. <i>Medical Physics</i> , <b>2009</b> , 36, 2136-53	4.4	131
262	Measurement accuracy and cerenkov removal for high performance, high spatial resolution scintillation dosimetry. <i>Medical Physics</i> , <b>2006</b> , 33, 128-35	4.4	120
261	Validation of GEANT4, an object-oriented Monte Carlo toolkit, for simulations in medical physics. <i>Medical Physics</i> , <b>2004</b> , 31, 484-92	4.4	120
260	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> , <b>2005</b> , 62, 1224-31	4	114
259	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> , <b>2011</b> , 38, 2140-50	4.4	93
258	Correction of CT artifacts and its influence on Monte Carlo dose calculations. <i>Medical Physics</i> , <b>2007</b> , 34, 2119-32	4.4	88
257	Signals for a transition from surface to bulk emission in thermal multifragmentation. <i>Physical Review Letters</i> , <b>2000</b> , 84, 5971-4	7.4	84
256	Review of plastic and liquid scintillation dosimetry for photon, electron, and proton therapy. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, R305-R343	3.8	75
255	Water-equivalent dosimeter array for small-field external beam radiotherapy. <i>Medical Physics</i> , <b>2007</b> , 34, 1583-92	4.4	74
254	Extracting atomic numbers and electron densities from a dual source dual energy CT scanner: experiments and a simulation model. <i>Radiotherapy and Oncology</i> , <b>2011</b> , 100, 375-9	5.3	71
253	Sensitivity of low energy brachytherapy Monte Carlo dose calculations to uncertainties in human tissue composition. <i>Medical Physics</i> , <b>2010</b> , 37, 5188-98	4.4	71

252	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> , <b>2001</b> , 473, 302-318	1.2	69
251	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> , <b>2009</b> , 73, 679-84	4	68
250	Toward a real-time in vivo dosimetry system using plastic scintillation detectors. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2010</b> , 78, 280-7	4	68
249	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> , <b>2013</b> , 40, 011749	4	67
248	On the nature of the light produced within PMMA optical light guides in scintillation fiber-optic dosimetry. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 2073-84	3.8	66
247	A phantom study of an in vivo dosimetry system using plastic scintillation detectors for real-time verification of <sup>192</sup> Ir HDR brachytherapy. <i>Medical Physics</i> , <b>2011</b> , 38, 2542-51	4.4	66
246	Postimplant dosimetry using a Monte Carlo dose calculation engine: a new clinical standard. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2007</b> , 68, 1190-8	4	64
245	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> , <b>2002</b> , 54, 86-100	4	63
244	AAPM and GEC-ESTRO guidelines for image-guided robotic brachytherapy: report of Task Group 192. <i>Medical Physics</i> , <b>2014</b> , 41, 101501	4.4	59
243	Clinical prototype of a plastic water-equivalent scintillating fiber dosimeter array for QA applications. <i>Medical Physics</i> , <b>2008</b> , 35, 3682-90	4.4	57
242	Impact of interseed attenuation and tissue composition for permanent prostate implants. <i>Medical Physics</i> , <b>2006</b> , 33, 595-604	4.4	57
241	Isotope yields from central Sn112,124+Sn112,124 collisions: Dynamical emission?. <i>Physical Review C</i> , <b>2004</b> , 69,	2.7	57
240	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> , <b>2002</b> , 88, 022701	7.4	57
239	Plastic scintillation dosimetry: optimal selection of scintillating fibers and scintillators. <i>Medical Physics</i> , <b>2005</b> , 32, 2271-8	4.4	56
238	Dosimetric performance and array assessment of plastic scintillation detectors for stereotactic radiosurgery quality assurance. <i>Medical Physics</i> , <b>2012</b> , 39, 429-36	4.4	53
237	Automated seed detection and three-dimensional reconstruction. II. Reconstruction of permanent prostate implants using simulated annealing. <i>Medical Physics</i> , <b>2001</b> , 28, 2272-9	4.4	53
236	Characterizing the response of miniature scintillation detectors when irradiated with proton beams. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, 1865-76	3.8	52
235	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> , <b>2011</b> , 56, 6257-68	2.8	51

234	A new water-equivalent 2D plastic scintillation detectors array for the dosimetry of megavoltage energy photon beams in radiation therapy. <i>Medical Physics</i> , <b>2011</b> , 38, 6763-74	4.4	48
233	Tissue segmentation in Monte Carlo treatment planning: a simulation study using dual-energy CT images. <i>Radiotherapy and Oncology</i> , <b>2008</b> , 86, 93-8	5.3	48
232	Enhancements to commissioning techniques and quality assurance of brachytherapy treatment planning systems that use model-based dose calculation algorithms. <i>Medical Physics</i> , <b>2010</b> , 37, 2645-58	4.4	46
231	ALGEBRA: ALgorithm for the heterogeneous dosimetry based on GEANT4 for BRACHytherapy. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 3273-80	3.8	45
230	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> , <b>2007</b> , 67, 334-41	4	43
229	Fast, automatic, and accurate catheter reconstruction in HDR brachytherapy using an electromagnetic 3D tracking system. <i>Medical Physics</i> , <b>2015</b> , 42, 1227-32	4.4	42
228	Robustness and precision of an automatic marker detection algorithm for online prostate daily targeting using a standard V-EPID. <i>Medical Physics</i> , <b>2003</b> , 30, 1825-32	4.4	42
227	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> , <b>2015</b> , 42, 3048-61	4.4	41
226	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> , <b>2004</b> , 58, 1298-308	4	41
225	Technical note: removing the stem effect when performing Ir-192 HDR brachytherapy in vivo dosimetry using plastic scintillation detectors: a relevant and necessary step. <i>Medical Physics</i> , <b>2011</b> , 38, 2176-9	4.4	40
224	Energy and integrated dose dependence of MOSFET dosimeter sensitivity for irradiation energies between 30 kV and 60Co. <i>Medical Physics</i> , <b>2006</b> , 33, 3683-9	4.4	40
223	Automated seed detection and three-dimensional reconstruction. I. Seed localization from fluoroscopic images or radiographs. <i>Medical Physics</i> , <b>2001</b> , 28, 2265-71	4.4	39
222	Validating plastic scintillation detectors for photon dosimetry in the radiologic energy range. <i>Medical Physics</i> , <b>2012</b> , 39, 5308-16	4.4	38
221	Is Tsallis thermodynamics nonextensive?. <i>Physical Review Letters</i> , <b>2002</b> , 88, 020601	7.4	35
220	Thermal excitation of heavy nuclei with 5.5 GeV/c antiproton, proton and pion beams. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1999</b> , 463, 159-167	4.2	35
219	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> , <b>1994</b> , 348, 167-172	1.2	34
218	Developing a phenomenological model of the proton trajectory within a heterogeneous medium required for proton imaging. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 5071-82	3.8	33
217	Influence of breast composition and interseed attenuation in dose calculations for post-implant assessment of permanent breast 103Pd seed implant. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, 4547-61	3.8	33

216	Validation of the Oncentra Brachy Advanced Collapsed cone Engine for a commercial (192)Ir source using heterogeneous geometries. <i>Brachytherapy</i> , <b>2015</b> , 14, 939-52	2.4	32
215	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> , <b>2010</b> , 2010, 1-10	1.3	32
214	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> , <b>2012</b> , 57, 7147-59	3.8	32
213	Light-ion-induced multifragmentation: The ISIS project. <i>Physics Reports</i> , <b>2006</b> , 434, 1-46	27.7	32
212	Source size scaling of fragment production in projectile breakup. <i>Physical Review C</i> , <b>1996</b> , 54, R973-R976	2.7	32
211	A theoretical framework to predict the most likely ion path in particle imaging. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 1777-1790	3.8	31
210	Monte Carlo study of LDR seed dosimetry with an application in a clinical brachytherapy breast implant. <i>Medical Physics</i> , <b>2009</b> , 36, 1848-58	4.4	31
209	The difference of scoring dose to water or tissues in Monte Carlo dose calculations for low energy brachytherapy photon sources. <i>Medical Physics</i> , <b>2011</b> , 38, 1526-33	4.4	31
208	A mathematical formalism for hyperspectral, multipoint plastic scintillation detectors. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 7133-45	3.8	31
207	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> , <b>1997</b> , 55, 1869-1880	2.7	31
206	A Monte Carlo study on the effect of seed design on the interseed attenuation in permanent prostate implants. <i>Medical Physics</i> , <b>2008</b> , 35, 3671-81	4.4	31
205	Current status of scintillation dosimetry for megavoltage beams. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 444, 012013	0.3	30
204	An algorithm for efficient metal artifact reductions in permanent seed. <i>Medical Physics</i> , <b>2011</b> , 38, 47-56	4.4	30
203	Extraction of depth-dependent perturbation factors for parallel-plate chambers in electron beams using a plastic scintillation detector. <i>Medical Physics</i> , <b>2010</b> , 37, 4331-42	4.4	30
202	Fragment production in noncentral collisions of intermediate-energy heavy ions. <i>Physical Review C</i> , <b>2002</b> , 65,	2.7	30
201	On the use of a single-fiber multipoint plastic scintillation detector for $^{192}\text{Ir}$ high-dose-rate brachytherapy. <i>Medical Physics</i> , <b>2013</b> , 40, 062101	4.4	29
200	Bypassing the learning curve in permanent seed implants using state-of-the-art technology. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2007</b> , 67, 71-7	4	29
199	Performing daily prostate targeting with a standard V-EPID and an automated radio-opaque marker detection algorithm. <i>Radiotherapy and Oncology</i> , <b>2004</b> , 73, 61-4	5.3	29

198	Thermal excitation-energy deposition in 5115 GeV/c hadron-induced reactions with <sup>197</sup> Au. II. Relation between excitation energy and reaction variables. <i>Physical Review C</i> , <b>2001</b> , 64,	2.7	28
197	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> , <b>2012</b> , 57, 6269-77	3.8	27
196	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> , <b>2002</b> , 53, 215-21	4	27
195	Direct Measurement of Dissipation in the <sup>35</sup> Cl+ <sup>12</sup> C Reaction at 43 MeV/nucleon. <i>Physical Review Letters</i> , <b>1996</b> , 77, 462-465	7.4	27
194	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> , <b>2010</b> , 77, 153-9	4	26
193	Surface preparation and coupling in plastic scintillator dosimetry. <i>Medical Physics</i> , <b>2006</b> , 33, 3519-25	4.4	26
192	Comparison of dose and catheter optimization algorithms in prostate high-dose-rate brachytherapy. <i>Brachytherapy</i> , <b>2016</b> , 15, 102-11	2.4	25
191	High-dose-rate brachytherapy boost for prostate cancer treatment: Different combinations of hypofractionated regimens and clinical outcomes. <i>Radiotherapy and Oncology</i> , <b>2017</b> , 124, 49-55	5.3	25
190	Performance and suitability assessment of a real-time 3D electromagnetic needle tracking system for interstitial brachytherapy. <i>Journal of Contemporary Brachytherapy</i> , <b>2015</b> , 7, 280-9	1.9	25
189	Comparison of TG-43 and TG-186 in breast irradiation using a low energy electronic brachytherapy source. <i>Medical Physics</i> , <b>2014</b> , 41, 061701	4.4	25
188	Novel, full 3D scintillation dosimetry using a static plenoptic camera. <i>Medical Physics</i> , <b>2014</b> , 41, 082101	4.4	25
187	Probing midrapidity source characteristics with charged particles and neutrons in the <sup>35</sup> Cl+natTa reaction at 43 MeV/nucleon. <i>Physical Review C</i> , <b>1999</b> , 59, R565-R569	2.7	25
186	Measurements of low-energy (d,n) reactions for BNCT. Boron Neutron Capture Therapy. <i>Medical Physics</i> , <b>1999</b> , 26, 793-8	4.4	25
185	Towards real-time 3D ultrasound planning and personalized 3D printing for breast HDR brachytherapy treatment. <i>Radiotherapy and Oncology</i> , <b>2015</b> , 114, 335-8	5.3	24
184	Quasiclassical model of intermediate velocity particle production in asymmetric heavy ion reactions. <i>Physical Review C</i> , <b>2002</b> , 65,	2.7	24
183	Pre-treatment patient-specific stopping power by combining list-mode proton radiography and x-ray CT. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 6836-6852	3.8	23
182	Functional avoidance of lung in plan optimization with an aperture-based inverse planning system. <i>Radiotherapy and Oncology</i> , <b>2011</b> , 100, 390-5	5.3	23
181	Real-time verification of multileaf collimator-driven radiotherapy using a novel optical attenuation-based fluence monitor. <i>Medical Physics</i> , <b>2011</b> , 38, 1459-67	4.4	23

180	Anatomy-based inverse planning dose optimization in HDR prostate implant: a toxicity study. <i>Radiotherapy and Oncology</i> , <b>2005</b> , 75, 318-24	5.3	23
179	New method for the discrimination of single-source events in heavy-ion collisions. <i>Physical Review C</i> , <b>2000</b> , 62,	2.7	23
178	A design methodology using signal-to-noise ratio for plastic scintillation detectors design and performance optimization. <i>Medical Physics</i> , <b>2009</b> , 36, 5214-20	4.4	22
177	Comparison of midvelocity fragment formation with projectilelike decay. <i>Physical Review C</i> , <b>2005</b> , 71,	2.7	22
176	Medical physics staffing for radiation oncology: a decade of experience in Ontario, Canada. <i>Journal of Applied Clinical Medical Physics</i> , <b>2012</b> , 13, 3704	2.3	21
175	Prostatic edema in 125I permanent prostate implants: dynamical dosimetry taking volume changes into account. <i>Medical Physics</i> , <b>2006</b> , 33, 574-83	4.4	21
174	Thermal excitation-energy deposition in 515 GeV/c hadron-induced reactions with 197Au. I. Reconstruction of thermal source properties. <i>Physical Review C</i> , <b>2001</b> , 64,	2.7	21
173	Heating A197u Nuclei with 8GeV/c Antiproton and $\bar{\nu}$ Beams. <i>Physical Review Letters</i> , <b>1999</b> , 83, 4033-4036	7.4	21
172	A systematic characterization of the low-energy photon response of plastic scintillation detectors. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 5569-86	3.8	20
171	In-phantom dose verification of prostate IMRT and VMAT deliveries using plastic scintillation detectors. <i>Radiation Measurements</i> , <b>2012</b> , 47, 921-929	1.5	20
170	Clinical outcome of adjuvant treatment of endometrial cancer using aperture-based intensity-modulated radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2008</b> , 71, 1343-50	4	20
169	A maximum likelihood method for high resolution proton radiography/proton CT. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 8232-8248	3.8	19
168	Water-dispersable colloidal quantum dots for the detection of ionizing radiation. <i>Chemical Communications</i> , <b>2013</b> , 49, 11629-31	5.8	19
167	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> , <b>2012</b> , 57, 4489-500	3.8	19
166	Multiobjective optimization with a modified simulated annealing algorithm for external beam radiotherapy treatment planning. <i>Medical Physics</i> , <b>2006</b> , 33, 4718-29	4.4	19
165	Simulation of the precision limits of plastic scintillation detectors using optimal component selection. <i>Medical Physics</i> , <b>2010</b> , 37, 412-8	4.4	18
164	Origins of intermediate velocity particle production in heavy ion reactions. <i>Physical Review C</i> , <b>2002</b> , 65,	2.7	18
163	Thermal expansion effects in the 8 GeV/c $\bar{\nu}$ 197Au reaction. <i>Physical Review C</i> , <b>2000</b> , 62,	2.7	18

162	dosimetry in brachytherapy: Requirements and future directions for research, development, and clinical practice. <i>Physics and Imaging in Radiation Oncology</i> , <b>2020</b> , 16, 1-11	3.1	18
161	Real-time electromagnetic tracking-based treatment platform for high-dose-rate prostate brachytherapy: Clinical workflows and end-to-end validation. <i>Brachytherapy</i> , <b>2018</b> , 17, 103-110	2.4	17
160	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> , <b>2016</b> , 15, 746-751	2.4	17
159	A generic TG-186 shielded applicator for commissioning model-based dose calculation algorithms for high-dose-rate Ir brachytherapy. <i>Medical Physics</i> , <b>2017</b> , 44, 5961-5976	4.4	17
158	Simultaneous optimization of beam orientations, wedge filters and field weights for inverse planning with anatomy-based MLC fields. <i>Medical Physics</i> , <b>2004</b> , 31, 1546-57	4.4	17
157	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> , <b>1996</b> , 374, 63-69	1.2	17
156	Optimization of a multipoint plastic scintillator dosimeter for high dose rate brachytherapy. <i>Medical Physics</i> , <b>2019</b> , 46, 2412-2421	4.4	16
155	An opposite view data replacement approach for reducing artifacts due to metallic dental objects. <i>Medical Physics</i> , <b>2011</b> , 38, 2275-81	4.4	16
154	Sub-second high dose rate brachytherapy Monte Carlo dose calculations with bGPUMCD. <i>Medical Physics</i> , <b>2012</b> , 39, 4559-67	4.4	16
153	Correction of megavoltage cone-beam CT images for dose calculation in the head and neck region. <i>Medical Physics</i> , <b>2008</b> , 35, 900-7	4.4	16
152	Fission transient times from fission probabilities of neighboring isotopes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2001</b> , 518, 221-228	4.2	16
151	Testing binomial reducibility and thermal scaling in hadron-induced multifragmentation. <i>Physical Review C</i> , <b>2001</b> , 63,	2.7	16
150	Adaptation of the CVT algorithm for catheter optimization in high dose rate brachytherapy. <i>Medical Physics</i> , <b>2013</b> , 40, 111724	4.4	15
149	Commissioning and evaluation of an extended SSD photon model for PINNACLE3: an application to total body irradiation. <i>Medical Physics</i> , <b>2009</b> , 36, 3844-55	4.4	15
148	Excitation and decay of projectilelike fragments formed in dissipative peripheral collisions at intermediate energies. <i>Physical Review C</i> , <b>2003</b> , 68,	2.7	15
147	Breakup time scale studied in the 8 GeV/c $^{197}\text{Au}$ reaction. <i>Physical Review C</i> , <b>2002</b> , 65,	2.7	15
146	Z-Dependent Barriers in Multifragmentation from Poissonian Reducibility and Thermal Scaling. <i>Physical Review Letters</i> , <b>1998</b> , 81, 770-773	7.4	15
145	Dissipative binary mechanisms in $^{24}\text{Mg} + ^{12}\text{C}$ collisions at 25A and 35A MeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1995</b> , 352, 8-13	4.2	15



144	Dependence of intermediate mass fragment production on the reaction mechanism in light heavy-ion collisions at intermediate energy. <i>Physical Review C</i> , <b>1996</b> , 53, 823-837	2.7	15
143	Calcifications in low-dose rate prostate seed brachytherapy treatment: post-planning dosimetry and predictive factors. <i>Radiotherapy and Oncology</i> , <b>2015</b> , 114, 339-44	5.3	14
142	Intratumoral Injection of Low-Energy Photon-Emitting Gold Nanoparticles: A Microdosimetric Monte Carlo-Based Model. <i>ACS Nano</i> , <b>2018</b> , 12, 2482-2497	16.7	14
141	Systematic evaluation of photodetector performance for plastic scintillation dosimetry. <i>Medical Physics</i> , <b>2015</b> , 42, 6211-20	4.4	14
140	Interplay of initial deformation and Coulomb proximity on nuclear decay. <i>Physical Review C</i> , <b>2004</b> , 70,	2.7	14
139	Automatic generation of anatomy-based MLC fields in aperture-based IMRT. <i>Medical Physics</i> , <b>2004</b> , 31, 1539-45	4.4	14
138	Tissue modeling schemes in low energy breast brachytherapy. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 7045-60	3.8	13
137	Exploring (57)Co as a new isotope for brachytherapy applications. <i>Medical Physics</i> , <b>2012</b> , 39, 2342-5	4.4	13
136	Octree indexing of DICOM images for voxel number reduction and improvement of Monte Carlo simulation computing efficiency. <i>Medical Physics</i> , <b>2006</b> , 33, 2819-31	4.4	13
135	Neutron to proton ratios of quasiprojectile and midrapidity emission in the Ni58+Ni58 reaction at 52 MeV/nucleon. <i>Physical Review C</i> , <b>2005</b> , 71,	2.7	13
134	A simplified analytical dose calculation algorithm accounting for tissue heterogeneity for low-energy brachytherapy sources. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 6299-315	3.8	12
133	Extension of the Fermi-Eyges most-likely path in heterogeneous medium with prior knowledge information. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 9207-9219	3.8	12
132	Performance assessment of a 2D array of plastic scintillation detectors for IMRT quality assurance. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 4439-54	3.8	12
131	Modeling a hypothetical 170Tm source for brachytherapy applications. <i>Medical Physics</i> , <b>2011</b> , 38, 5307-10	4.4	12
130	Fragment isospin as a probe of heavy-ion collisions. <i>Physical Review C</i> , <b>2002</b> , 65,	2.7	12
129	Evidence for the statistical and sequential nature of 16O breakup into four alphas. <i>Physical Review C</i> , <b>1993</b> , 48, 2514-2516	2.7	12
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