

Luc Beaulieu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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	0.3	0
268	On the use of machine learning methods for mPSD calibration in HDR brachytherapy. <i>Physica Medica</i> , 2021 , 91, 73-79	2.7	0
267	Comparative optic and dosimetric characterization of the HYPERSCINT scintillation dosimetry research platform for multipoint applications. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	2
266	Performance of an enhanced afterloader with electromagnetic tracking capabilities for channel reconstruction and error detection. <i>Medical Physics</i> , 2021 , 48, 4402-4410	4.4	0
265	3D source tracking and error detection in HDR using two independent scintillator dosimetry systems. <i>Medical Physics</i> , 2021 , 48, 2095-2107	4.4	2
264	Recent Advances and Clinical Applications of Plastic Scintillators in the Field of Radiation Therapy. <i>Topics in Applied Physics</i> , 2021 , 425-460	0.5	1
263	Validation of the TOPAS Monte Carlo toolkit for HDR brachytherapy simulations. <i>Brachytherapy</i> , 2021 , 20, 911-921	2.4	0
262	Commissioning of an intra-operative US guided prostate HDR system integrating an EM tracking technology. <i>Brachytherapy</i> , 2021 , 20, 1296-1304	2.4	1
261	A high-Z inorganic scintillator-based detector for time-resolved in vivo dosimetry during brachytherapy. <i>Medical Physics</i> , 2021 , 48, 7382-7398	4.4	2
260	Light-Generating CdSe/CdS Colloidal Quantum Dot-Doped Plastic Optical Fibers. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6478-6488	5.6	2
259	Colloidal Quantum Dot-Doped Optical Fibers for Scintillation Dosimetry. <i>IEEE Transactions on Nuclear Science</i> , 2020 , 67, 1040-1044	1.7	1
258	Brachytherapy Future Directions. <i>Seminars in Radiation Oncology</i> , 2020 , 30, 94-106	5.5	9
257	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	3.1	18
256	Monte Carlo dosimetric characterization of a new high dose rate Yb brachytherapy source and independent verification using a multipoint plastic scintillator detector. <i>Medical Physics</i> , 2020 , 47, 4563-4573	4.4	0
255	Evaluating the impact of real-time multicriteria optimizers integrated with interactive plan navigation tools for HDR brachytherapy. <i>Brachytherapy</i> , 2020 , 19, 607-617	2.4	1
254	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	2.4	1
253	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	4.4	8

252	Investigation of the quinine sulfate dihydrate spectral properties and its effects on Cherenkov dosimetry. <i>Physics in Medicine and Biology</i> , 2019 , 64, 155019	3.8	4
251	Dosimetric properties of colloidal quantum dot-based systems for scintillation dosimetry. <i>Physics in Medicine and Biology</i> , 2019 , 64, 095027	3.8	4
250	A GPU-based multi-criteria optimization algorithm for HDR brachytherapy. <i>Physics in Medicine and Biology</i> , 2019 , 64, 105005	3.8	11
249	Optimization of a multipoint plastic scintillator dosimeter for high dose rate brachytherapy. <i>Medical Physics</i> , 2019 , 46, 2412-2421	4.4	16
248	Technical Note: Identification of an optimal electromagnetic sensor for in vivo electromagnetic-tracked scintillation dosimeter for HDR brachytherapy. <i>Medical Physics</i> , 2019 , 46, 2031-2036	4.4	4
247	Preclinical dose verification using a 3D printed mouse phantom for radiobiology experiments. <i>Medical Physics</i> , 2019 , 46, 5294-5303	4.4	1
246	The association of intraprostatic calcifications and dosimetry parameters with biochemical control after permanent prostate implant. <i>Brachytherapy</i> , 2019 , 18, 787-792	2.4	1
245	A stochastic frontier analysis for enhanced treatment quality of high-dose-rate brachytherapy plans. <i>Physics in Medicine and Biology</i> , 2019 , 64, 065012	3.8	3
244	Benchmarking a novel inorganic scintillation detector for applications in radiation therapy. <i>Physica Medica</i> , 2019 , 68, 124-131	2.7	5
243	Characterization of a plastic scintillating detector for the Small Animal Radiation Research Platform (SARRP). <i>Medical Physics</i> , 2019 , 46, 394-404	4.4	5
242	Intratumoral Injection of Low-Energy Photon-Emitting Gold Nanoparticles: A Microdosimetric Monte Carlo-Based Model. <i>ACS Nano</i> , 2018 , 12, 2482-2497	16.7	14
241	EM-enhanced US-based seed detection for prostate brachytherapy. <i>Medical Physics</i> , 2018 , 45, 2357-2368	4.4	5
240	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	4.4	5
239	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	4	4
238	COMP report: CPQR technical quality control guidelines for low-dose-rate permanent seed brachytherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2018 , 19, 13-18	2.3	
237	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	2.4	17
236	Characterization of a binary system composed of luminescent quantum dots for liquid scintillation. <i>Physics in Medicine and Biology</i> , 2018 , 63, 175012	3.8	6
235	A multi-criteria optimization approach for HDR prostate brachytherapy: I. Pareto surface approximation. <i>Physics in Medicine and Biology</i> , 2018 , 63, 205004	3.8	7

234	A multi-criteria optimization approach for HDR prostate brachytherapy: II. Benchmark against clinical plans. <i>Physics in Medicine and Biology</i> , 2018 , 63, 205005	3.8	6
233	A theoretical framework to predict the most likely ion path in particle imaging. <i>Physics in Medicine and Biology</i> , 2017 , 62, 1777-1790	3.8	31
232	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	2.4	8
231	Coupling I-125 permanent implant prostate brachytherapy Monte Carlo dose calculations with radiobiological models. <i>Medical Physics</i> , 2017 , 44, 4329-4340	4.4	3
230	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	4	6
229	Validation of plastic scintillation detectors for applications in low-dose-rate brachytherapy. <i>Brachytherapy</i> , 2017 , 16, 903-909	2.4	8
228	Abstract ID: 184 OpenDNA: An OpenCL-based GPU Monte Carlo simulation code for microdosimetry. <i>Physica Medica</i> , 2017 , 42, 39-40	2.7	
227	Abstract ID: 186 OpenTRAK: An OpenCL-based GPU Monte Carlo simulation code for Brachytherapy dose calculation. <i>Physica Medica</i> , 2017 , 42, 40	2.7	
226	Preliminary investigation of a luminescent colloidal quantum dots-based liquid scintillator. <i>Journal of Physics: Conference Series</i> , 2017 , 847, 012043	0.3	1
225	A generic TG-186 shielded applicator for commissioning model-based dose calculation algorithms for high-dose-rate Ir brachytherapy. <i>Medical Physics</i> , 2017 , 44, 5961-5976	4.4	17
224	Extension of the Fermi-Eyges most-likely path in heterogeneous medium with prior knowledge information. <i>Physics in Medicine and Biology</i> , 2017 , 62, 9207-9219	3.8	12
223	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	5.3	25
222	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	3.8	23
221	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	4	11
220	A maximum likelihood method for high resolution proton radiography/proton CT. <i>Physics in Medicine and Biology</i> , 2016 , 61, 8232-8248	3.8	19
219	A systematic characterization of the low-energy photon response of plastic scintillation detectors. <i>Physics in Medicine and Biology</i> , 2016 , 61, 5569-86	3.8	20
218	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	2.4	17
217	Review of plastic and liquid scintillation dosimetry for photon, electron, and proton therapy. <i>Physics in Medicine and Biology</i> , 2016 , 61, R305-R343	3.8	75

216	Comparison of dose and catheter optimization algorithms in prostate high-dose-rate brachytherapy. <i>Brachytherapy</i> , 2016 , 15, 102-11	2.4	25
215	Brenkov and its solutions. <i>Imaging in Medical Diagnosis and Therapy</i> , 2016 , 73-83		2
214	Scintillation of organic materials. <i>Imaging in Medical Diagnosis and Therapy</i> , 2016 , 3-20		
213	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	4.4	
212	Image-Guided High-Dose-Rate (HDR) Boost Localization Using MRI/MR Spectroscopy: A Correlation Study with Biopsy. <i>Cureus</i> , 2016 , 8, e795	1.2	1
211	Advances in Radiotherapy for Prostate Cancer Treatment. <i>Prostate Cancer</i> , 2016 , 2016, 3079684	1.9	1
210	Robust shell passivation of CdSe colloidal quantum dots to stabilize radioluminescence emission. <i>AIP Advances</i> , 2016 , 6, 105011	1.5	7
209	Real-time electromagnetic seed drop detection for permanent implants brachytherapy: Technology overview and performance assessment. <i>Medical Physics</i> , 2016 , 43, 6217	4.4	4
208	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	5.3	3
207	Monte Carlo calculation of the dose perturbations in a dual-source HDR/PDR afterloader treatment unit. <i>Brachytherapy</i> , 2016 , 15, 524-530	2.4	1
206	Fast, automatic, and accurate catheter reconstruction in HDR brachytherapy using an electromagnetic 3D tracking system. <i>Medical Physics</i> , 2015 , 42, 1227-32	4.4	42
205	Towards real-time 3D ultrasound planning and personalized 3D printing for breast HDR brachytherapy treatment. <i>Radiotherapy and Oncology</i> , 2015 , 114, 335-8	5.3	24
204	The collapsed cone algorithm for (192)Ir dosimetry using phantom-size adaptive multiple-scatter point kernels. <i>Physics in Medicine and Biology</i> , 2015 , 60, 5313-23	3.8	10
203	Calcifications in low-dose rate prostate seed brachytherapy treatment: post-planning dosimetry and predictive factors. <i>Radiotherapy and Oncology</i> , 2015 , 114, 339-44	5.3	14
202	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, 6830-9	4.4	5
201	Evaluation of an electron Monte Carlo dose calculation algorithm for treatment planning. <i>Journal of Applied Clinical Medical Physics</i> , 2015 , 16, 4636	2.3	10
200	Systematic evaluation of photodetector performance for plastic scintillation dosimetry. <i>Medical Physics</i> , 2015 , 42, 6211-20	4.4	14
199	Validation of the Oncentra Brachy Advanced Collapsed cone Engine for a commercial (192)Ir source using heterogeneous geometries. <i>Brachytherapy</i> , 2015 , 14, 939-52	2.4	32

198	Characterization of a fiber-taper charge-coupled device system for plastic scintillation dosimetry and comparison with the traditional lens system. <i>Radiation Measurements</i> , 2015 , 73, 60-68	1.5	1
197	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, 5071-82	3.8	33
196	Performance and suitability assessment of a real-time 3D electromagnetic needle tracking system for interstitial brachytherapy. <i>Journal of Contemporary Brachytherapy</i> , 2015 , 7, 280-9	1.9	25
195	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, 3048-61	4.4	41
194	Fast GPU-based Monte Carlo simulations for LDR prostate brachytherapy. <i>Physics in Medicine and Biology</i> , 2015 , 60, 4973-86	3.8	11
193	On the sensitivity of Δ prediction to dose calculation methodology in prostate brachytherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014 , 88, 345-50	4	4
192	A Novel Approach for Real-Time, Personalized Breast HDR Brachytherapy Treatment Using 3D Printing Technology. <i>Brachytherapy</i> , 2014 , 13, S18	2.4	3
191	Dose perturbation due to catheter materials in high-dose-rate interstitial (192)Ir brachytherapy. <i>Brachytherapy</i> , 2014 , 13, 627-31	2.4	9
190	Comparison of TG-43 and TG-186 in breast irradiation using a low energy electronic brachytherapy source. <i>Medical Physics</i> , 2014 , 41, 061701	4.4	25
189	Novel, full 3D scintillation dosimetry using a static plenoptic camera. <i>Medical Physics</i> , 2014 , 41, 082101	4.4	25
188	AAPM and GEC-ESTRO guidelines for image-guided robotic brachytherapy: report of Task Group 192. <i>Medical Physics</i> , 2014 , 41, 101501	4.4	59
187	Quantifying the effect of seed orientation in postplanning dosimetry of low-dose-rate prostate brachytherapy. <i>Medical Physics</i> , 2014 , 41, 101704	4.4	7
186	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, 5921-35	3.8	5
185	Monte Carlo dosimetry of high dose rate gynecologic interstitial brachytherapy. <i>Radiotherapy and Oncology</i> , 2013 , 109, 425-9	5.3	9
184	Water-dispersable colloidal quantum dots for the detection of ionizing radiation. <i>Chemical Communications</i> , 2013 , 49, 11629-31	5.8	19
183	A simplified analytical dose calculation algorithm accounting for tissue heterogeneity for low-energy brachytherapy sources. <i>Physics in Medicine and Biology</i> , 2013 , 58, 6299-315	3.8	12
182	A Generic High-Dose-Rate 192Ir Source Model for Model-Based Dose Calculation Methods in Brachytherapy Beyond the TG-43 Formalism. <i>Brachytherapy</i> , 2013 , 12, S62-S63	2.4	2
181	An Adaptive Point Kernel Approach for Improved Skin Dose Determination Using a Collapsed Cone Superposition Algorithm. <i>Brachytherapy</i> , 2013 , 12, S12	2.4	2

180	3D tomodosimetry using long scintillating fibers: a feasibility study. <i>Medical Physics</i> , 2013 , 40, 101703	4.4	9
179	Adaptation of the CVT algorithm for catheter optimization in high dose rate brachytherapy. <i>Medical Physics</i> , 2013 , 40, 111724	4.4	15
178	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, 2073-84	3.8	66
177	Performance assessment of a 2D array of plastic scintillation detectors for IMRT quality assurance. <i>Physics in Medicine and Biology</i> , 2013 , 58, 4439-54	3.8	12
176	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	4.4	29
175	Current status of scintillation dosimetry for megavoltage beams. <i>Journal of Physics: Conference Series</i> , 2013 , 444, 012013	0.3	30
174	3D tomodosimetry using scintillating fibers: proof-of-concept. <i>Journal of Physics: Conference Series</i> , 2013 , 444, 012023	0.3	1
173	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	4.4	67
172	TU-E-116-01: Clinical Implementation for Advanced Brachytherapy Dose Calculation Algorithms Beyond the TG-43 Formalism. <i>Medical Physics</i> , 2013 , 40, 450-450	4.4	1
171	TU-C-108-08: Characterization of a Fiber-Taper CCD Photo-Counting System for Plastic Scintillation Dosimetry and Comparison to the Traditional Lens System. <i>Medical Physics</i> , 2013 , 40, 432-432	4.4	
170	In-phantom dose verification of prostate IMRT and VMAT deliveries using plastic scintillation detectors. <i>Radiation Measurements</i> , 2012 , 47, 921-929	1.5	20
169	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, 6269-77	3.8	27
168	ALGEBRA: ALgorithm for the heterogeneous dosimetry based on GEANT4 for BRACHytherapy. <i>Physics in Medicine and Biology</i> , 2012 , 57, 3273-80	3.8	45
167	Consequences of dose heterogeneity on the biological efficiency of ¹⁰² Pd permanent breast seed implants. <i>Physics in Medicine and Biology</i> , 2012 , 57, 809-23	3.8	7
166	High resolution 2D dose measurement device based on a few long scintillating fibers and tomographic reconstruction. <i>Medical Physics</i> , 2012 , 39, 4840-9	4.4	11
165	Dosimetric performance and array assessment of plastic scintillation detectors for stereotactic radiosurgery quality assurance. <i>Medical Physics</i> , 2012 , 39, 429-36	4.4	53
164	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, 4489-500	3.8	19
163	Sub-second high dose rate brachytherapy Monte Carlo dose calculations with bGPUMCD. <i>Medical Physics</i> , 2012 , 39, 4559-67	4.4	16

162	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> , 2012 , 39, 6208-36	4.4	302
161	Exploring (57)Co as a new isotope for brachytherapy applications. <i>Medical Physics</i> , 2012 , 39, 2342-5	4.4	13
160	A mathematical formalism for hyperspectral, multipoint plastic scintillation detectors. <i>Physics in Medicine and Biology</i> , 2012 , 57, 7133-45	3.8	31
159	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, 7147-59	3.8	32
158	Comment on 'Plastic scintillation dosimetry: comparison of three solutions for the Cerenkov challenge'. <i>Physics in Medicine and Biology</i> , 2012 , 57, 3661-5; discussion 3667-73	3.8	8
157	Medical physics staffing for radiation oncology: a decade of experience in Ontario, Canada. <i>Journal of Applied Clinical Medical Physics</i> , 2012 , 13, 3704	2.3	21
156	Validating plastic scintillation detectors for photon dosimetry in the radiologic energy range. <i>Medical Physics</i> , 2012 , 39, 5308-16	4.4	38
155	WE-G-BRB-04: BEST IN PHYSICS (THERAPY) - A Novel Multi-Point Plastic Scintillation Detector for in Vivo Dosimetry and Quality Assurance in Radiation Therapy. <i>Medical Physics</i> , 2012 , 39, 3967	4.4	1
154	Tissue modeling schemes in low energy breast brachytherapy. <i>Physics in Medicine and Biology</i> , 2011 , 56, 7045-60	3.8	13
153	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, 375-9	5.3	71
152	Functional avoidance of lung in plan optimization with an aperture-based inverse planning system. <i>Radiotherapy and Oncology</i> , 2011 , 100, 390-5	5.3	23
151	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, 1582-9	4	7
150	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, 1374-7	4.4	6
149	3D heterogeneous dose distributions for total body irradiation patients. <i>Journal of Applied Clinical Medical Physics</i> , 2011 , 12, 3416	2.3	9
148	Modeling a hypothetical ¹⁷⁰ Tm source for brachytherapy applications. <i>Medical Physics</i> , 2011 , 38, 5307-10	4.4	12
147	Real-time verification of multileaf collimator-driven radiotherapy using a novel optical attenuation-based fluence monitor. <i>Medical Physics</i> , 2011 , 38, 1459-67	4.4	23
146	Extraction of depth-dependent perturbation factors for silicon diodes using a plastic scintillation detector. <i>Medical Physics</i> , 2011 , 38, 5441-7	4.4	6
145	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, 6763-74	4.4	48

144	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, 2140-50	4.4	93
143	An algorithm for efficient metal artifact reductions in permanent seed. <i>Medical Physics</i> , 2011 , 38, 47-56	4.4	30
142	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, 6257-78	3.8	51
141	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> , 2011 , 38, 2176-9	4.4	40
140	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, 1526-33	4.4	31
139	Accurate calibration of a polymer gel dosimeter with a plastic scintillation detector. <i>Medical Physics</i> , 2011 , 38, 2754-61	4.4	4
138	A phantom study of an in vivo dosimetry system using plastic scintillation detectors for real-time verification of 192Ir HDR brachytherapy. <i>Medical Physics</i> , 2011 , 38, 2542-51	4.4	66
137	An opposite view data replacement approach for reducing artifacts due to metallic dental objects. <i>Medical Physics</i> , 2011 , 38, 2275-81	4.4	16
136	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	1.3	32
135	Sensitivity of low energy brachytherapy Monte Carlo dose calculations to uncertainties in human tissue composition. <i>Medical Physics</i> , 2010 , 37, 5188-98	4.4	71
134	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	11
133	The Dimensional Synthesis of the Linear Delta Robot for a Force-Feedback Device 2010 ,		1
132	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> , 2010 , 55, 4547-61	3.8	33
131	Enhancements to commissioning techniques and quality assurance of brachytherapy treatment planning systems that use model-based dose calculation algorithms. <i>Medical Physics</i> , 2010 , 37, 2645-58	4.4	46
130	Improvement in the accuracy of polymer gel dosimeters using scintillating fibers. <i>Journal of Physics: Conference Series</i> , 2010 , 250, 012076	0.3	1
129	Simulation of the precision limits of plastic scintillation detectors using optimal component selection. <i>Medical Physics</i> , 2010 , 37, 412-8	4.4	18
128	Extraction of depth-dependent perturbation factors for parallel-plate chambers in electron beams using a plastic scintillation detector. <i>Medical Physics</i> , 2010 , 37, 4331-42	4.4	30
127	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, 1052-6	4	3

126	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. <i>Brachytherapy</i> , 2010 , 9, 266-73	2.4	7
125	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, 153-9	4	26
124	Toward a real-time in vivo dosimetry system using plastic scintillation detectors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 78, 280-7	4	68
123	Modern Principles of Brachytherapy Physics: From 2-D to 3-D to Dynamic Planning and Delivery 2010 , 224-244		2
122	Optimization of photon beam energy in aperture-based inverse planning. <i>Journal of Applied Clinical Medical Physics</i> , 2009 , 10, 36-54	2.3	8
121	Centrality dependence of the thermal excitation-energy deposition in 815 GeV/c hadron-Au reactions. <i>Physical Review C</i> , 2009 , 79,	2.7	5
120	Commissioning and evaluation of an extended SSD photon model for PINNACLE3: an application to total body irradiation. <i>Medical Physics</i> , 2009 , 36, 3844-55	4.4	15
119	Monte Carlo study of LDR seed dosimetry with an application in a clinical brachytherapy breast implant. <i>Medical Physics</i> , 2009 , 36, 1848-58	4.4	31
118	A design methodology using signal-to-noise ratio for plastic scintillation detectors design and performance optimization. <i>Medical Physics</i> , 2009 , 36, 5214-20	4.4	22
117	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, 679-84	4	68
116	The evolution of brachytherapy treatment planning. <i>Medical Physics</i> , 2009 , 36, 2136-53	4.4	131
115	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. <i>Radiotherapy and Oncology</i> , 2009 , 91, 342-8	5.3	8
114	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	2.3	10
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