

Luc Beaulieu

List of Publications by Year in descending order

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Version: 2024-02-01

330
papers

7,933
citations

57758

44
h-index

74163

75
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336
all docs

336
docs citations

336
times ranked

3718
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of novel shielded nasopharynx applicator designs for intracavitary brachytherapy. <i>Brachytherapy</i> , 2022, 21, 229-237.	0.5	1
2	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
3	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
4	On the use of polychromatic cameras for high spatial resolution spectral dose measurements. <i>Physics in Medicine and Biology</i> , 2022, , .	3.0	0
5	Accurate dose measurements using Cherenkov emission polarization imaging. <i>Medical Physics</i> , 2022, , .	3.0	1
6	External beam irradiation angle measurement using a hybrid Cerenkov-scintillation detector. <i>Physics in Medicine and Biology</i> , 2022, 67, 105011.	3.0	1
7	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
8	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
9	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
10	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
11	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
12	PO05. <i>Brachytherapy</i> , 2021, 20, S57-S58.	0.5	0
13	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
14	OC-0065 Real-time electromagnetic guidance for GYN interstitial HDR brachytherapy: a proof-of-concept. <i>Radiotherapy and Oncology</i> , 2021, 158, S49-S51.	0.6	0
15	PP-0150 Commissioning of a GPU-based multi-criteria optimisation algorithm for HDR brachytherapy. <i>Radiotherapy and Oncology</i> , 2021, 158, S113-S115.	0.6	0
16	PHSOR07 Presentation Time: 10:30 AM. <i>Brachytherapy</i> , 2021, 20, S26-S27.	0.5	0
17	PO-0209 Practical considerations on the use of EM tracking technology for clinical HDR brachytherapy. <i>Radiotherapy and Oncology</i> , 2021, 158, S168-S169.	0.6	0
18	OC-0110 Characterisation of an inorganic scintillation detector system for time resolved in vivo dosimetry. <i>Radiotherapy and Oncology</i> , 2021, 158, S77-S79.	0.6	0

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19	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
20	PHSOR08 Presentation Time: 10:35 AM. Brachytherapy, 2021, 20, S27.	0.5	0
21	PP25 Presentation Time: 4:20 PM. Brachytherapy, 2021, 20, S22-S23.	0.5	0
22	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
23	Performance of an enhanced afterloader with electromagnetic tracking capabilities for channel reconstruction and error detection. Medical Physics, 2021, 48, 4402-4410.	3.0	7
24	Validation of the TOPAS Monte Carlo toolkit for HDR brachytherapy simulations. Brachytherapy, 2021, 20, 911-921.	0.5	12
25	Commissioning of an intra-operative US guided prostate HDR system integrating an EM tracking technology. Brachytherapy, 2021, 20, 1296-1304.	0.5	7
26	A high-resolution inorganic scintillator-based detector for time-resolved in vivo dosimetry during brachytherapy. Medical Physics, 2021, 48, 7382-7398.	3.0	17
27	On the use of machine learning methods for mPSD calibration in HDR brachytherapy. Physica Medica, 2021, 91, 73-79.	0.7	2
28	6: Ultra-Hypofractionated (UHF) Compared to Moderate-Hypofractionated (MHF) Prostate IGRT with HDR Brachytherapy Boost(BB): Four-Year Toxicities and Local Control. Radiotherapy and Oncology, 2021, 163, S6.	0.6	0
29	Medical Range Radiation Dosimeter Based on Polymer-Embedded Fiber Bragg Gratings. Sensors, 2021, 21, 8139.	3.8	3
30	Brachytherapy Future Directions. Seminars in Radiation Oncology, 2020, 30, 94-106.	2.2	27
31	In vivo dosimetry in brachytherapy: Requirements and future directions for research, development, and clinical practice. Physics and Imaging in Radiation Oncology, 2020, 16, 1-11.	2.9	51
32	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
33	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
34	Dose to the bladder neck is not correlated with urinary toxicity in patients with prostate cancer treated with HDR brachytherapy boost. Brachytherapy, 2020, 19, 584-588.	0.5	2
35	Future directions of in vivo dosimetry for external beam radiotherapy and brachytherapy. Physics and Imaging in Radiation Oncology, 2020, 16, 18-19.	2.9	9
36	Light-Generating CdSe/CdS Colloidal Quantum Dot-Doped Plastic Optical Fibers. ACS Applied Nano Materials, 2020, 3, 6478-6488.	5.0	2

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37	Colloidal Quantum Dot-Doped Optical Fibers for Scintillation Dosimetry. IEEE Transactions on Nuclear Science, 2020, 67, 1040-1044.	2.0	3
38	Dosimetric performance of a multipoint plastic scintillator dosimeter as a tool for real-time source tracking in high dose rate Ir brachytherapy. Medical Physics, 2020, 47, 4477-4490.	3.0	20
39	OC-1044: Catheter Reconstruction Limits of an Afterloader With EMT Capabilities. Radiotherapy and Oncology, 2020, 152, S1095-S1096.	0.6	0
40	Characterization of a plastic scintillating detector for the Small Animal Radiation Research Platform (<scp>SARRP</scp>). Medical Physics, 2019, 46, 394-404.	3.0	15
41	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
42	Preclinical dose verification using a 3D printed mouse phantom for radiobiology experiments. Medical Physics, 2019, 46, 5294-5303.	3.0	6
43	The association of intraprostatic calcifications and dosimetry parameters with biochemical control after permanent prostate implant. Brachytherapy, 2019, 18, 787-792.	0.5	5
44	ULTRA-HYPO (UHF) Compared to Moderate-HYPO (MHF) Fractionated Prostate IGRT with HDR Brachytherapy BOOST: LONG TERM Toxicity, Acceptability and Efficiency of Delivery. International Journal of Radiation Oncology Biology Physics, 2019, 105, E293-E294.	0.8	0
45	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
46	Investigation of the quinine sulfate dihydrate spectral properties and its effects on Cherenkov dosimetry. Physics in Medicine and Biology, 2019, 64, 155019.	3.0	9
47	Dosimetric properties of colloidal quantum dot-based systems for scintillation dosimetry. Physics in Medicine and Biology, 2019, 64, 095027.	3.0	8
48	A GPU-based multi-criteria optimization algorithm for HDR brachytherapy. Physics in Medicine and Biology, 2019, 64, 105005.	3.0	25
49	Optimization of a multipoint plastic scintillator dosimeter for high dose rate brachytherapy. Medical Physics, 2019, 46, 2412-2421.	3.0	24
50	Technical Note: Identification of an optimal electromagnetic sensor for <i>inÂvivo</i> electromagnetic-tracked scintillation dosimeter for HDR brachytherapy. Medical Physics, 2019, 46, 2031-2036.	3.0	9
51	A stochastic frontier analysis for enhanced treatment quality of high-dose-rate brachytherapy plans. Physics in Medicine and Biology, 2019, 64, 065012.	3.0	3
52	90 Ultra-Hypo (UHF) Compared to Moderate-Hypo (MHF) Fractionated Prostate IGRT with HDR Brachytherapy Boost: Long Term Toxicity, Acceptability and Efficiency of Delivery. Radiotherapy and Oncology, 2019, 139, S40-S41.	0.6	0
53	Benchmarking a novel inorganic scintillation detector for applications in radiation therapy. Physica Medica, 2019, 68, 124-131.	0.7	13
54	Towards an Ultra-Fast GPU-Based Multi-Criteria Optimization Algorithm for HDR Brachytherapy. Brachytherapy, 2019, 18, S23-S24.	0.5	1

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55	10 The Impact of Dose to Bladder Neck on Urinary Toxicity in Patients Treated with HDR Brachytherapy Boost for Prostate Cancer. Radiotherapy and Oncology, 2019, 139, S7-S8.	0.6	0
56	Feasibility of Intraprostatic Prostate Cancer Imaging with FCH-PET/CT for Preoperative Planning of Image-Guided HDR Brachytherapy. Brachytherapy, 2019, 18, S72.	0.5	0
57	The Impact of Dose to Bladder Neck on Urinary Toxicity in Patients Treated with HDR Brachytherapy Boost for Prostate Cancer. Brachytherapy, 2019, 18, S65.	0.5	0
58	Intratumoral Injection of Low-Energy Photon-Emitting Gold Nanoparticles: A Microdosimetric Monte Carlo-Based Model. ACS Nano, 2018, 12, 2482-2497.	14.6	20
59	EM-enhanced US-based seed detection for prostate brachytherapy. Medical Physics, 2018, 45, 2357-2368.	3.0	8
60	Technical Note: On EM reconstruction of a multi channel shielded applicator for cervical cancer brachytherapy: A feasibility study.. Medical Physics, 2018, 45, 1673-1676.	3.0	8
61	Does Seed Migration Increase the Risk of Second Malignancies in Prostate Cancer Patients Treated With Iodine-125 Loose Seeds Brachytherapy?. International Journal of Radiation Oncology Biology Physics, 2018, 100, 1190-1194.	0.8	5
62	COMP report: CPQR technical quality control guidelines for low-dose-rate permanent seed brachytherapy. Journal of Applied Clinical Medical Physics, 2018, 19, 13-18.	1.9	0
63	Real-time electromagnetic tracking-based treatment platform for high-dose-rate prostate brachytherapy: Clinical workflows and end-to-end validation. Brachytherapy, 2018, 17, 103-110.	0.5	33
64	A multi-criteria optimization approach for HDR prostate brachytherapy: I. Pareto surface approximation. Physics in Medicine and Biology, 2018, 63, 205004.	3.0	9
65	A multi-criteria optimization approach for HDR prostate brachytherapy: II. Benchmark against clinical plans. Physics in Medicine and Biology, 2018, 63, 205005.	3.0	8
66	The Clinical Efficiency and Learning Curve of Ultrasound (us)-Based Planning in High Dose Rate (hdr) Prostate Brachytherapy. Brachytherapy, 2018, 17, S34-S35.	0.5	4
67	Massively Parallel Implementation of IPSA on GPU Architecture for Multi-Criteria Optimization. Brachytherapy, 2018, 17, S87.	0.5	0
68	The Impact of Intraprostatic Calcifications on Biochemical Control after Permanent Prostate Implant. Brachytherapy, 2018, 17, S20.	0.5	0
69	Characterization of a binary system composed of luminescent quantum dots for liquid scintillation. Physics in Medicine and Biology, 2018, 63, 175012.	3.0	8
70	A theoretical framework to predict the most likely ion path in particle imaging. Physics in Medicine and Biology, 2017, 62, 1777-1790.	3.0	42
71	Use of 3D transabdominal ultrasound imaging for treatment planning in cervical cancer brachytherapy: Comparison to magnetic resonance and computed tomography. Brachytherapy, 2017, 16, 847-854.	0.5	12
72	Coupling I-125 permanent implant prostate brachytherapy Monte Carlo dose calculations with radiobiological models. Medical Physics, 2017, 44, 4329-4340.	3.0	6

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73	Multicenter Evaluation of Biochemical Relapse-Free Survival Outcomes for Intraoperatively Planned Prostate Brachytherapy Using an Automated Delivery System. International Journal of Radiation Oncology Biology Physics, 2017, 99, 895-903.	0.8	8
74	Validation of plastic scintillation detectors for applications in low-dose-rate brachytherapy. Brachytherapy, 2017, 16, 903-909.	0.5	10
75	Abstract ID: 184 OpenDNA: An OpenCL-based GPU Monte Carlo simulation code for microdosimetry. Physica Medica, 2017, 42, 39-40.	0.7	0
76	Abstract ID: 186 OpenTRAK: An OpenCL-based GPU Monte Carlo simulation code for Brachytherapy dose calculation. Physica Medica, 2017, 42, 40.	0.7	0
77	Abstract ID: 246 Advanced dose calculations for clinical brachytherapy. Physica Medica, 2017, 42, 46.	0.7	0
78	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
79	A generic TG-186 shielded applicator for commissioning model-based dose calculation algorithms for high-dose-rate brachytherapy. Medical Physics, 2017, 44, 5961-5976.	3.0	34
80	On EM Reconstruction of a Mutli Channel Shielded DMBT Tandem Applicator for Cervical Cancer Brachytherapy: A Feasibility Study. Brachytherapy, 2017, 16, S86-S87.	0.5	0
81	Integrating Direction Modulated Brachytherapy (DMBT) Tandem Applicator into a Brachytherapy TPS. Brachytherapy, 2017, 16, S20.	0.5	0
82	Effect of Different Hypofractionated Regimens Combination on Clinical Outcomes in Prostate Cancer Patients Treated with High Dose-Rate Brachytherapy Boost. Brachytherapy, 2017, 16, S54-S55.	0.5	0
83	Extension of the Fermi's most-likely path in heterogeneous medium with prior knowledge information. Physics in Medicine and Biology, 2017, 62, 9207-9219.	3.0	14
84	High-dose-rate brachytherapy boost for prostate cancer treatment: Different combinations of hypofractionated regimens and clinical outcomes. Radiotherapy and Oncology, 2017, 124, 49-55.	0.6	31
85	Pre-treatment patient-specific stopping power by combining list-mode proton radiography and x-ray CT. Physics in Medicine and Biology, 2017, 62, 6836-6852.	3.0	31
86	Large-scale Retrospective Monte Carlo Dosimetric Study for Permanent Implant Prostate Brachytherapy. International Journal of Radiation Oncology Biology Physics, 2017, 97, 606-615.	0.8	18
87	Preliminary investigation of a luminescent colloidal quantum dots-based liquid scintillator. Journal of Physics: Conference Series, 2017, 847, 012043.	0.4	1
88	Advances in Radiotherapy for Prostate Cancer Treatment. Prostate Cancer, 2016, 2016, 1-2.	0.6	1
89	Robust shell passivation of CdSe colloidal quantum dots to stabilize radioluminescence emission. AIP Advances, 2016, 6, 105011.	1.3	8
90	Real-time electromagnetic seed drop detection for permanent implants brachytherapy: Technology overview and performance assessment. Medical Physics, 2016, 43, 6217-6225.	3.0	4

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91	Does prostate volume has an impact on biochemical failure in patients with localized prostate cancer treated with HDR boost?. Radiotherapy and Oncology, 2016, 121, 304-309.	0.6	5
92	Real-Time EM-Tracking Based Treatment Platform for High Dose Rate Prostate Brachytherapy: End-to-End Validation and Clinical Workflows. Brachytherapy, 2016, 15, S38-S39.	0.5	0
93	Use of 3D-Ultrasound for Cervical Cancer Brachytherapy: An Imaging Technique to Improve Treatment Planning. Brachytherapy, 2016, 15, S92-S93.	0.5	2
94	Characterization of Electromagnetic versus Manual 3DUS-Based Catheter Tip Localization Errors in High Dose Rate Brachytherapy Procedures. Brachytherapy, 2016, 15, S194-S195.	0.5	0
95	Monte Carlo calculation of the dose perturbations in a dual-source HDR/PDR afterloader treatment unit. Brachytherapy, 2016, 15, 524-530.	0.5	1
96	A Modified TG-43 Dose Calculation Formalism for Direction Modulation Brachytherapy (DMBT) Tandem Applicator. Brachytherapy, 2016, 15, S32-S33.	0.5	0
97	A Monte-Carlo Study of Cellular Dosimetry of Radioactive Gold-Palladium Nanoparticles Based on the Transmission Electron Microscopy Images. Brachytherapy, 2016, 15, S40-S41.	0.5	0
98	Clinical Outcomes in Patients Treated with Selective HDR Image-Guided Boost to Dominant Intra-Prostatic Lesion. Brachytherapy, 2016, 15, S52.	0.5	1
99	Monte Carlo Dose Calculations for Permanent Prostate Brachytherapy: Calcification Modelling Schemes and Sensitivity to Tissue Compositions. Brachytherapy, 2016, 15, S33-S34.	0.5	0
100	A maximum likelihood method for high resolution proton radiography/proton CT. Physics in Medicine and Biology, 2016, 61, 8232-8248.	3.0	25
101	A systematic characterization of the low-energy photon response of plastic scintillation detectors. Physics in Medicine and Biology, 2016, 61, 5569-5586.	3.0	28
102	Image-guided high-dose-rate brachytherapy boost to the dominant intraprostatic lesion using multiparametric magnetic resonance imaging including spectroscopy: Results of a prospective study. Brachytherapy, 2016, 15, 746-751.	0.5	19
103	Review of plastic and liquid scintillation dosimetry for photon, electron, and proton therapy. Physics in Medicine and Biology, 2016, 61, R305-R343.	3.0	114
104	Comparison of dose and catheter optimization algorithms in prostate high-dose-rate brachytherapy. Brachytherapy, 2016, 15, 102-111.	0.5	27
105	ÄEerenkov and its solutions. Imaging in Medical Diagnosis and Therapy, 2016, , 73-83.	0.0	2
106	Scintillation of organic materials. Imaging in Medical Diagnosis and Therapy, 2016, , 3-20.	0.0	0
107	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. Medical Physics, 2016, 43, 4955-4955.	3.0	0
108	Image-Guided High-Dose-Rate (HDR) Boost Localization Using MRI/MR Spectroscopy: A Correlation Study with Biopsy. Cureus, 2016, 8, e795.	0.5	1

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109	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
110	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
111	Systematic evaluation of photodetector performance for plastic scintillation dosimetry. <i>Medical Physics</i> , 2015, 42, 6211-6220.	3.0	17
112	Validation of the Oncentra Brachy Advanced Collapsed cone Engine for a commercial ¹⁹² Ir source using heterogeneous geometries. <i>Brachytherapy</i> , 2015, 14, 939-952.	0.5	43
113	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.	1.4	1
114	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
115	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
116	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
117	Fast GPU-based Monte Carlo simulations for LDR prostate brachytherapy. <i>Physics in Medicine and Biology</i> , 2015, 60, 4973-4986.	3.0	15
118	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
119	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
120	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
121	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, 5313-5323.	3.0	10
122	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
123	Use of 3D-Ultrasound Imaging in Cervical Cancer Brachytherapy: Preliminary Report. <i>Brachytherapy</i> , 2015, 14, S55.	0.5	0
124	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
125	Novel, full 3D scintillation dosimetry using a static plenoptic camera. <i>Medical Physics</i> , 2014, 41, 082101.	3.0	38
126	AAPM and GEC-ESTRO guidelines for image-guided robotic brachytherapy: Report of Task Group 192. <i>Medical Physics</i> , 2014, 41, 101501.	3.0	78

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127	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
128	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
129	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
130	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
131	Establishing Universal Test Cases for Benchmarking Model-Based Dose Calculations beyond TG-43. <i>Brachytherapy</i> , 2014, 13, S50.	0.5	1
132	A Novel Approach for Real-Time, Personalized Breast HDR Brachytherapy Treatment Using 3D Printing Technology. <i>Brachytherapy</i> , 2014, 13, S18.	0.5	5
133	Dose perturbation due to catheter materials in high-dose-rate interstitial ¹⁹² Ir brachytherapy. <i>Brachytherapy</i> , 2014, 13, 627-631.	0.5	10
134	Monte Carlo dosimetry of high dose rate gynecologic interstitial brachytherapy. <i>Radiotherapy and Oncology</i> , 2013, 109, 425-429.	0.6	9
135	Water-dispersable colloidal quantum dots for the detection of ionizing radiation. <i>Chemical Communications</i> , 2013, 49, 11629.	4.1	20
136	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
137	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
138	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
139	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
140	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
141	3D tomodosimetry using long scintillating fibers: A feasibility study. <i>Medical Physics</i> , 2013, 40, 101703.	3.0	10
142	Adaptation of the CVT algorithm for catheter optimization in high dose rate brachytherapy. <i>Medical Physics</i> , 2013, 40, 111724.	3.0	18
143	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
144	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

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145	On the use of a single-fiber multipoint plastic scintillation detector for ¹⁹² Ir high-dose-rate brachytherapy. Medical Physics, 2013, 40, 062101.	3.0	37
146	Current status of scintillation dosimetry for megavoltage beams. Journal of Physics: Conference Series, 2013, 444, 012013.	0.4	36
147	3D tomodosimetry using scintillating fibers: proof-of-concept. Journal of Physics: Conference Series, 2013, 444, 012023.	0.4	1
148	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. Medical Physics, 2013, 40, 011719.	3.0	78
149	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
150	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
151	Dose to tissue medium or water cavities as surrogate for the dose to cell nuclei at brachytherapy photon energies. Physics in Medicine and Biology, 2012, 57, 4489-4500.	3.0	21
152	Sub-second high dose rate brachytherapy Monte Carlo dose calculations with bGPUMCD. Medical Physics, 2012, 39, 4559-4567.	3.0	20
153	Development of a 2D scintillating fiber detector for proton radiography. , 2012, , .		0
154	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. Medical Physics, 2012, 39, 6208-6236.	3.0	391
155	Exploring ⁵⁷ Co as a new isotope for brachytherapy applications. Medical Physics, 2012, 39, 2342-2345.	3.0	13
156	A mathematical formalism for hyperspectral, multipoint plastic scintillation detectors. Physics in Medicine and Biology, 2012, 57, 7133-7145.	3.0	42
157	Development of a novel multi-point plastic scintillation detector with a single optical transmission line for radiation dose measurement. Physics in Medicine and Biology, 2012, 57, 7147-7159.	3.0	38
158	Comment on "Plastic scintillation dosimetry: comparison of three solutions for the Cerenkov challenge". Physics in Medicine and Biology, 2012, 57, 3661-3665.	3.0	8
159	Medical physics staffing for radiation oncology: a decade of experience in Ontario, Canada. Journal of Applied Clinical Medical Physics, 2012, 13, 93-110.	1.9	24
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327	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
328	Breakup of highly excited ^{35}Cl projectiles on a gold target at 30 A MeV: An exclusive analysis. <i>Nuclear Physics A</i> , 1994, 580, 81-99.	1.5	10
329	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
330	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