Jan Seuntjens

List of Publications by Citations

172 papers	5,579 citations	37 h-index	69 g-index
177 ext. papers	6,260 ext. citations	3.8 avg, IF	5.72 L-index

#	Paper	IF	Citations
172	Report of the AAPM Task Group No. 105: Issues associated with clinical implementation of Monte Carlo-based photon and electron external beam treatment planning. *Medical Physics*, **2007**, 34, 4818-53	4.2	435
171	Precise radiochromic film dosimetry using a flat-bed document scanner. *Medical Physics*, **2005**, 32, 2245-53	4.2	427
170	A new formalism for reference dosimetry of small and nonstandard fields. *Medical Physics*, **2008**, 35, 5179-86	4.2	387
169	Monte Carlo modelling of external radiotherapy photon beams. *Physics in Medicine and Biology*, **2003**, 48, R107-64	3.6	269
168	Radiomics strategies for risk assessment of tumour failure in head-and-neck cancer. *Scientific Reports*, **2017**, 7, 10117	4.7	230
167	Dosimetric properties of improved GafChromic films for seven different digitizers. *Medical Physics*, **2004**, 31, 2392-401	4.2	202
166	Addendum to the AAPM's TG-51 protocol for clinical reference dosimetry of high-energy photon beams. *Medical Physics*, **2014**, 41, 041501	4.2	156
165	Accurate skin dose measurements using radiochromic film in clinical applications. *Medical Physics*, **2006**, 33, 1116-24	4.2	156
164	Dosimetry of small static fields used in external photon beam radiotherapy: Summary of TRS-483, the IAEA-AAPM international Code of Practice for reference and relative dose determination. *Medical Physics*, **2018**, 45, e1123-e1145	4.2	94
163	Ionization chamber-based reference dosimetry of intensity modulated radiation beams. *Medical Physics*, **2004**, 31, 2454-65	4.2	86
162	Absorption spectra time evolution of EBT-2 model GAFCHROMIC film. *Medical Physics*, **2010**, 37, 2207-14	4.2	80
161	A deformable phantom for 4D radiotherapy verification: design and image registration evaluation. *Medical Physics*, **2008**, 35, 1094-102	4.2	77
160	Monte Carlo role in radiobiological modelling of radiotherapy outcomes. *Physics in Medicine and Biology*, **2012**, 57, R75-97	3.6	73
159	Detector dose response in megavoltage small photon beams. I. Theoretical concepts. *Medical Physics*, **2015**, 42, 6033-47	4.2	69
158	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	4.2	67
157	Development and validation of a BEAMnrc component module for accurate Monte Carlo modelling of the Varian dynamic Millennium multileaf collimator. *Physics in Medicine and Biology*, **2003**, 48, 4045-63	3.6	66
156	Deep learning in head & neck cancer outcome prediction. *Scientific Reports*, **2019**, 9, 2764	4.7	63

155	Physical aspects of dynamic stereotactic radiosurgery with very small photon beams (1.5 and 3 mm in diameter). *Medical Physics*, **2003**, 30, 111-8	4.2	60
154	Ionization chamber gradient effects in nonstandard beam configurations. *Medical Physics*, **2009**, 36, 4654-63	4.2	60
153	Absorption spectroscopy of EBT model GAFCHROMIC film. *Medical Physics*, **2007**, 34, 112-8	4.2	57
152	Linearization of dose-response curve of the radiochromic film dosimetry system. *Medical Physics*, **2012**, 39, 4850-7	4.2	57
151	Dosimetric and microdosimetric study of contrast-enhanced radiotherapy with kilovolt x-rays. *Physics in Medicine and Biology*, **2005**, 50, 3555-69	3.6	57
150	Reference radiochromic film dosimetry in kilovoltage photon beams during CBCT image acquisition. *Medical Physics*, **2010**, 37, 1083-92	4.2	54
149	A direct voxel tracking method for four-dimensional Monte Carlo dose calculations in deforming anatomy. *Medical Physics*, **2006**, 33, 434-45	4.2	55
148	Absorbed dose to water reference dosimetry using solid phantoms in the context of absorbed-dose protocols. *Medical Physics*, **2005**, 32, 2945-53	4.2	53
147	Absorbed-dose beam quality conversion factors for cylindrical chambers in high energy photon beams. *Medical Physics*, **2000**, 27, 2763-79	4.2	54
146	Third-party brachytherapy source calibrations and physicist responsibilities: report of the AAPM Low Energy Brachytherapy Source Calibration Working Group. *Medical Physics*, **2008**, 35, 3860-5	4.2	53
145	Photon absorbed dose standards. *Metrologia*, **2009**, 46, S39-S58	1.3	51
144	Validation of Monte Carlo calculated surface doses for megavoltage photon beams. *Medical Physics* , **2005**, 32, 286-98	4.2	50
143	Head and neck squamous cell carcinoma: prediction of cervical lymph node metastasis by dual-energy CT texture analysis with machine learning. *European Radiology*, **2019**, 29, 6172-6181	7.8	49
142	Monte Carlo study of correction factors for Spencer-Attix cavity theory at photon energies at or above 100 keV. *Medical Physics*, **2000**, 27, 1804-13	4.2	49
141	Paracrine effects of bone marrow soup restore organ function, regeneration, and repair in salivary glands damaged by irradiation. *PLoS ONE*, **2013**, 8, e61632	3.6	48
140	The Role of HMGB1 in Radioresistance of Bladder Cancer. *Molecular Cancer Therapeutics*, **2016**, 15, 471-9	5.8	45
139	Consistency test of the electron transport algorithm in the GEANT4 Monte Carlo code. *Physics in Medicine and Biology*, **2005**, 50, 681-94	3.6	44
138	Detector dose response in megavoltage small photon beams. II. Pencil beam perturbation effects. *Medical Physics*, **2015**, 42, 6048-61	4.2	43

137	Radiochromic film dosimetry of HDR (192)Ir source radiation fields. *Medical Physics*, **2011**, 38, 6074-83	4.2	43
136	A protocol for EBT3 radiochromic film dosimetry using reflection scanning. *Medical Physics*, **2014**, 41, 122101	4.2	40
135	Dosimetric evaluation of the clinical implementation of the first commercial IMRT Monte Carlo treatment planning system at 6 MV. *Medical Physics*, **2004**, 31, 2771-9	4.2	36
134	Bayesian network ensemble as a multivariate strategy to predict radiation pneumonitis risk. *Medical Physics*, **2015**, 42, 2421-30	4.2	34
133	Influence of focal spot on characteristics of very small diameter radiosurgical beams. *Medical Physics*, **2008**, 35, 3317-30	4.2	33
132	Water calorimetry and ionization chamber dosimetry in an 85-MeV clinical proton beam. *Medical Physics*, **1996**, 23, 643-50	4.2	34
131	Characterization of calibration curves and energy dependence GafChromic XR-QA2 model based radiochromic film dosimetry system. *Medical Physics*, **2014**, 41, 062105	4.2	33
130	Direct measurement of absorbed dose to water in HDR 192Ir brachytherapy: water calorimetry, ionization chamber, Gafchromic film, and TG-43. *Medical Physics*, **2010**, 37, 1924-32	4.2	33
129	Energy modulated electron therapy using a few leaf electron collimator in combination with IMRT and 3D-CRT: Monte Carlo-based planning and dosimetric evaluation. *Medical Physics*, **2005**, 32, 2976-86	4.2	32
128	On the consistency of Monte Carlo track structure DNA damage simulations. *Medical Physics*, **2014**, 41, 121708	4.2	31
127	Performance of Knowledge-Based Radiation Therapy Planning for the Glioblastoma Disease Site. *International Journal of Radiation Oncology Biology Physics*, **2017**, 99, 1021-1028	0.8	31
126	Correction factors and performance of a 4 degrees C sealed water calorimeter. *Physics in Medicine and Biology*, **1999**, 44, 627-46	3.6	31
125	Verification of absorbed doses determined with thimble and parallel-plate ionization chambers in clinical electron beams using ferrous sulphate dosimetry. *Medical Physics*, **1994**, 21, 37-44	4.2	30
124	Quantification of accuracy of the automated nonlinear image matching and anatomical labeling (ANIMAL) nonlinear registration algorithm for 4D CT images of lung. *Medical Physics*, **2007**, 34, 4409-21	4.2	28
123	Dependence of overall correction factor of a cylindrical ionization chamber on field size and depth in medium-energy x-ray beams. *Medical Physics*, **1996**, 23, 1789-96	4.2	29
122	Mesenchymal stem cell transplantation to promote bone healing. *Journal of Orthopaedic Research*, **2012**, 30, 1183-9	3.6	26
121	Evaluation of EBT-2 model GAFCHROMIC film performance in water. *Medical Physics*, **2010**, 37, 3687-93	4.2	26
120	Design and dosimetry of a few leaf electron collimator for energy modulated electron therapy. *Medical Physics*, **2007**, 34, 4782-91	4.2	26

119	Measuring neutron spectra in radiotherapy using the nested neutron spectrometer. *Medical Physics* , **2015**, 42, 6162-9	4.2	24
118	Investigation of three radiation detectors for accurate measurement of absorbed dose in nonstandard fields. *Medical Physics*, **2010**, 37, 2404-13	4.2	24
117	Monte Carlo based modulated electron beam treatment planning using a few-leaf electron collimator--feasibility study. *Physics in Medicine and Biology*, **2005**, 50, 847-57	3.6	24
116	Study of dosimetry consistency for kilovoltage x-ray beams. *Medical Physics*, **1998**, 25, 2376-84	4.2	24
115	Use of a control film piece in radiochromic film dosimetry. *Physica Medica*, **2016**, 32, 202-7	2.2	22
114	Comparison of modulated electron radiotherapy to conventional electron boost irradiation and volumetric modulated photon arc therapy for treatment of tumour bed boost in breast cancer. *Radiotherapy and Oncology*, **2011**, 100, 253-8	1	22
113	4D dose-position verification in radiation therapy using the RADPOS system in a deformable lung phantom. *Medical Physics*, **2011**, 38, 179-87	4.2	20
112	Direct absorbed dose to water determination based on water calorimetry in scanning proton beam delivery. *Medical Physics*, **2010**, 37, 3541-50	4.2	21
111	Radioluminescence studies of colloidal oleate-capped NaGdF:Ln nanoparticles (Ln = Ce, Eu, Tb). *Nanoscale*, **2018**, 10, 7821-7832	7.5	21
110	An investigation into the INTRABEAM miniature x-ray source dosimetry using ionization chamber and radiochromic film measurements. *Medical Physics*, **2018**, 45, 4274	4.2	20
109	Radiochromic film based dosimetry of image-guidance procedures on different radiotherapy modalities. *Journal of Applied Clinical Medical Physics*, **2014**, 15, 5006	2.2	19
108	Dose homogeneity specification for reference dosimetry of nonstandard fields. *Medical Physics*, **2012**, 39, 407-14	4.2	19
107	A Monte Carlo method to evaluate the impact of positioning errors on detector response and quality correction factors in nonstandard beams. *Physics in Medicine and Biology*, **2011**, 56, 2617-34	3.6	19
106	Experimental determination of electron source parameters for accurate Monte Carlo calculation of large field electron therapy. *Physics in Medicine and Biology*, **2005**, 50, 779-86	3.6	18
105	Kinetics of [methyl-11C]thymidine in patients with squamous cell carcinoma of the head and neck. *Acta Oncologica*, **1996**, 35, 737-41	3.1	19
104	Identification of the active components in Bone Marrow Soup: a mitigator against irradiation-injury to salivary glands. *Scientific Reports*, **2015**, 5, 16017	4.7	18
103	PD-1/PD-L1 Immune Checkpoint Inhibition with Radiation in Bladder Cancer: and Abscopal Effects. *Molecular Cancer Therapeutics*, **2020**, 19, 211-220	5.8	18
102	On mixed electron-photon radiation therapy optimization using the column generation approach. *Medical Physics*, **2017**, 44, 4287-4298	4.2	17

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100	. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2019**, 3, 210-215	4	16
99	Proton and light ion RBE for the induction of direct DNA double strand breaks. *Medical Physics*, **2016**, 43, 2131	4.2	16
98	Tracking of Mesenchymal Stem Cells with Fluorescence Endomicroscopy Imaging in Radiotherapy-Induced Lung Injury. *Scientific Reports*, **2017**, 7, 40748	4.7	16
97	RapidBrachyMCTPS: a Monte Carlo-based treatment planning system for brachytherapy applications. *Physics in Medicine and Biology*, **2018**, 63, 175007	3.6	16
96	On charged particle equilibrium violation in external photon fields. *Medical Physics*, **2012**, 39, 1473-80	4.2	16
95	Direct aperture optimization for FLEC-based MERT and its application in mixed beam radiotherapy. *Medical Physics*, **2012**, 39, 4820-31	4.2	15
94	Local correlation between monte-carlo dose and radiation-induced fibrosis in lung cancer patients. *International Journal of Radiation Oncology Biology Physics*, **2008**, 70, 921-30	0.8	16
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92	Comparing calibration methods of electron beams using plane-parallel chambers with absorbed-dose to water based protocols. *Medical Physics*, **2002**, 29, 284-9	4.2	16
91	Perspective: lanthanide-doped upconverting nanoparticles. *Methods and Applications in Fluorescence*, **2019**, 7, 012004	3	17
90	Development of a graphite probe calorimeter for absolute clinical dosimetry. *Medical Physics*, **2013**, 40, 020701	4.2	15
89	Toward automatic field selection and planning using Monte Carlo-based direct aperture optimization in modulated electron radiotherapy. *Physics in Medicine and Biology*, **2010**, 55, 4563-76	3.6	15
88	Development of a water calorimetry-based standard for absorbed dose to water in HDR 192Ir brachytherapy. *Medical Physics*, **2010**, 37, 1914-23	4.2	15
87	Re-evaluation of the dose to the cyst wall in P-32 radiocolloid treatments of cystic brain tumors using the dose-point-kernel and Monte Carlo methods. *Medical Physics*, **2003**, 30, 2475-81	4.2	15
86	Aerrow: A probe-format graphite calorimeter for absolute dosimetry of high-energy photon beams in the clinical environment. *Medical Physics*, **2018**, 45, 414-428	4.2	14
85	Determination of absorbed dose to water from a miniature kilovoltage x-ray source using a parallel-plate ionization chamber. *Physics in Medicine and Biology*, **2017**, 63, 015016	3.6	14
84	Experimental analysis of general ion recombination in a liquid-filled ionization chamber in high-energy photon beams. *Medical Physics*, **2013**, 40, 062104	4.2	14

83	Beam modeling and beam model commissioning for Monte Carlo dose calculation-based radiation therapy treatment planning: Report of AAPM Task Group 157. *Medical Physics*, **2020**, 47, e1-e18	4.2	14
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81	Direct measurement of electron beam quality conversion factors using water calorimetry. *Medical Physics*, **2015**, 42, 6357-68	4.2	12
80	Experimental investigation on the accuracy of plastic scintillators and of the spectrum discrimination method in small photon fields. *Medical Physics*, **2017**, 44, 654-664	4.2	13
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78	Optically Stimulated Nanodosimeters with High Storage Capacity. *Nanomaterials*, **2019**, 9,	5.2	12
77	A comparative analysis of longitudinal computed tomography and histopathology for evaluating the potential of mesenchymal stem cells in mitigating radiation-induced pulmonary fibrosis. *Scientific Reports*, **2017**, 7, 9056	4.7	12
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74	Comparison of Radiomics Models Built Through Machine Learning in a Multicentric Context With Independent Testing: Identical Data, Similar Algorithms, Different Methodologies. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2019**, 3, 192-200	4	11
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72	An investigation into the use of MMCTP to tune accelerator source parameters and testing its clinical application. *Journal of Applied Clinical Medical Physics*, **2013**, 14, 3692	2.2	11
71	Comparison of dosimetric standards of Canada and France for photons at 60Co and higher energies. *Physics in Medicine and Biology*, **2001**, 46, 2119-42	3.6	11
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69	Can dose outside the PTV influence the risk of distant metastases in stage I lung cancer patients treated with stereotactic body radiotherapy (SBRT)?. *Radiotherapy and Oncology*, **2018**, 128, 513-519	1	10
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66	Dose measurements nearby low energy electronic brachytherapy sources using radiochromic film. *Physica Medica*, **2019**, 64, 40-44	2.2	9

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64	Novel knowledge-based treatment planning model for hypofractionated radiotherapy of prostate cancer patients. *Physica Medica*, **2020**, 69, 36-43	2.2	9
63	Optimal timing and frequency of bone marrow soup therapy for functional restoration of salivary glands injured by single-dose or fractionated irradiation. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, e1195-e1205	4.2	8
62	Dose-response linearization in radiochromic film dosimetry based on multichannel normalized pixel value with an integrated spectral correction for scanner response variations. *Medical Physics*, **2019**, 46, 5336-5349	4.2	8
61	Radiochromic film-based quality assurance for CT-based high-dose-rate brachytherapy. *Brachytherapy*, **2015**, 14, 578-85	1.3	8
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59	Size-specific dose estimations for pediatric chest, abdomen/pelvis and head CT scans with the use of GATE. *Physica Medica*, **2019**, 65, 181-190	2.2	7
58	Latent uncertainties of the precalculated track Monte Carlo method. *Medical Physics*, **2015**, 42, 479-90	4.2	7
57	Density effects of silica aerogel insulation on the performance of a graphite probe calorimeter. *Medical Physics*, **2019**, 46, 1874-1882	4.2	7
56	Accurate determination of dose-point-kernel functions close to the origin using Monte Carlo simulations. *Medical Physics*, **2004**, 31, 814-8	4.2	7
55	A fast Monte Carlo code for proton transport in radiation therapy based on MCNPX. *Journal of Medical Physics*, **2014**, 39, 156-63	0.7	7
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53	On a local (de-)trapping model for highly doped Pr radioluminescent and persistent luminescent nanoparticles. *Nanoscale*, **2020**, 12, 20759-20766	7.5	6
52	An artificial intelligence framework integrating longitudinal electronic health records with real-world data enables continuous pan-cancer prognostication.. *Nature Cancer*, **2021**, 2, 709-722	14.7	7
51	Cellular Uptake, Cytotoxicity and Trafficking of Supported Lipid-Bilayer-Coated Lanthanide Upconverting Nanoparticles in Alveolar Lung Cancer Cells.. *ACS Applied Bio Materials*, **2019**, 2, 4527-4536	4	5
50	Robust mixed electron-photon radiation therapy optimization. *Medical Physics*, **2019**, 46, 1384-1396	4.2	4
49	The role of medical physics in prostate cancer radiation therapy. *Physica Medica*, **2016**, 32, 435-7	2.2	5
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46	Inverse optimization of low-cost kilovoltage x-ray arc therapy plans. *Medical Physics*, **2018**, 45, 5161-5171	4.2	5
45	Absolute dosimetry of a 1.5 T MR-guided accelerator-based high-energy photon beam in water and solid phantoms using Aerrow. *Medical Physics*, **2020**, 47, 1291-1304	4.2	5
44	Comparing local control and distant metastasis in NSCLC patients between CyberKnife and conventional SBRT. *Radiotherapy and Oncology*, **2020**, 144, 201-208	1	6
43	Considerations and limitations of fast Monte Carlo electron transport in radiation therapy based on precalculated data. *Medical Physics*, **2009**, 36, 530-40	4.2	5
42	Response to stereotactic ablative radiotherapy in a novel orthotopic model of non-small cell lung cancer. *Oncotarget*, **2018**, 9, 1630-1640	3.2	5
41	Experimental verification of beam quality in high-contrast imaging with orthogonal bremsstrahlung photon beams. *Medical Physics*, **2007**, 34, 2896-906	4.2	5
40	Reply to "Comments on the TRS-483 Protocol on Small field Dosimetry" [Med. Phys. 45(12), 5666-5668 (2018)]. *Medical Physics*, **2018**, 45, 5669-5671	4.2	4
39	Polarity and ion recombination corrections in continuous and pulsed beams for ionization chambers with high Z chamber walls. *Physica Medica*, **2017**, 35, 102-109	2.2	4
38	Comment on "Reference radiochromic film dosimetry in kilovoltage photon beams during CBCT image acquisition" [Med. Phys. 37, 1083-1092 (2010)]. *Medical Physics*, **2010**, 37, 3008	4.2	4
37	Cell extracts from spleen and adipose tissues restore function to irradiation-injured salivary glands. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, e1289-e1296	4.2	3
36	Monte Carlo simulations of different CT X-ray energy spectra within CTDI phantom and the influence of its changes on radiochromic film measurements. *Physica Medica*, **2019**, 62, 105-110	2.2	3
35	Radio-selective effects of a natural occurring muscle-derived dipeptide in A549 and normal cell lines. *Scientific Reports*, **2019**, 9, 11513	4.7	3
34	FDG-PET-based differential uptake volume histograms: a possible approach towards definition of biological target volumes. *British Journal of Radiology*, **2016**, 89, 20150388	3.3	3
33	A source model for modulated electron radiation therapy using dynamic jaw movements. *Medical Physics*, **2013**, 40, 051707	4.2	3
32	Monte Carlo investigation of collapsed versus rotated IMRT plan verification. *Journal of Applied Clinical Medical Physics*, **2014**, 15, 4681	2.2	3
31	Monte Carlo and water calorimetric determination of kilovoltage beam radiotherapy ionization chamber correction factors. *Physics in Medicine and Biology*, **2020**, 65, 105001	3.6	4
30	Experimental validation of recommended msr-correction factors for the calibration of Leksell Gamma Knife Icon unit following IAEA TRS-483. *Physics in Medicine and Biology*, **2020**, 65, 065003	3.6	3

29	The Rapidly-Developing Area of Radiocardiology: Principles, Complications and Applications of Radiotherapy on the Heart. *Canadian Journal of Cardiology*, **2021**, 37, 1818-1827	2	5
28	Monte Carlo calculated kilovoltage x-ray arc therapy plans for three lung cancer patients. *Biomedical Physics and Engineering Express*, **2019**, 5,	1.4	2
27	Modeling the primary source intensity distribution: reconstruction and inter-comparison of six Varian TrueBeam sources. *Physics in Medicine and Biology*, **2019**, 64, 135005	3.6	2
26	Investigating the role of functional imaging in the management of soft-tissue sarcomas of the extremities. *Physics and Imaging in Radiation Oncology*, **2018**, 6, 53-60	3	3
25	Time-resolved diode dosimetry calibration through Monte Carlo modeling for in vivo passive scattered proton therapy range verification. *Journal of Applied Clinical Medical Physics*, **2017**, 18, 200-205	2.2	2
24	Positional and angular tracking of HDR Ir source for brachytherapy quality assurance using radiochromic film dosimetry. *Medical Physics*, **2020**, 47, 6122-6139	4.2	2
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22	Trajectory-based VMAT for cranial targets with delivery at shortened SAD. *Medical Physics*, **2020**, 47, 3103-3112	4.2	2
21	Investigating the impact of the CT Hounsfield unit range on radiomic feature stability using dual energy CT data. *Physica Medica*, **2021**, 88, 272-277	2.2	3
20	Physics aspects of the Papillon technique-Five decades later. *Brachytherapy*, **2018**, 17, 234-243	1.3	1
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18	Overlooked pitfalls in multi-class machine learning classification in radiation oncology and how to avoid them. *Physica Medica*, **2020**, 70, 96-100	2.2	1
17	IAEA-AAPM TRS-483-based reference dosimetry of the new RefleXion biology-guided radiotherapy (BgRT) machine. *Medical Physics*, **2021**, 48, 1884-1892	4.2	1
16	Clinical Implication of Dosimetry Formalisms for Electronic Low-Energy Photon Intraoperative Radiation Therapy. *Practical Radiation Oncology*, **2021**, 11, e114-e121	2.8	1
15	Strategic Training in Transdisciplinary Radiation Science for the 21st Century (STARS21): 15-Year Evaluation of an Innovative Research Training Program. *International Journal of Radiation Oncology Biology Physics*, **2021**, 110, 656-666	0.8	1
14	Ion chamber and film-based quality assurance of mixed electron-photon radiation therapy. *Medical Physics*, **2021**, 48, 5382-5395	4.2	1
13	Determination of field output correction factors of radiophotoluminescence glass dosimeter and CC01 ionization chamber and validation against IAEA-AAPM TRS-483 code of practice. *Physica Medica*, **2021**, 88, 167-174	2.2	1
12	Monte Carlo calculation of the relative TG-43 dosimetry parameters for the INTRABEAM electronic brachytherapy source. *Physics in Medicine and Biology*, **2020**, 65, 245041	3.6	1

List of Publications

11	Simultaneous trajectory generation and volumetric modulated arc therapy optimization. *Medical Physics*, **2020**, 47, 3078-3090	4.2	0
10	Feasibility of operating a millimeter-scale graphite calorimeter for absolute dosimetry of small-field photon beams in the clinic. *Medical Physics*, **2021**, 48, 7476-7492	4.2	0
9	How Low Should You Go: Choice of Minimum Dose Prescription in Cranial Radiosurgery. *Cureus*, **2015**, 7, e282	1.1	0
8	Proton beam therapy should remain in the public domain. *Cmaj*, **2019**, 191, E1284	3.4	
7	Response to "Comment on PA protocol for EBT3 radiochromic film dosimetry using reflection scanningP" [Med. Phys. 41(12), 122101 (6pp.) (2014)]. *Medical Physics*, **2016**, 43, 1580-2	4.2	
6	Reply to "Comment on PDose homogeneity specification for reference dosimetry of nonstandard fieldsP" [Med. Phys. 39, 407-414 (2012)]. *Medical Physics*, **2013**, 40, 037102	4.2	
5	Step-size effect on calculated photon and electron beam Cherenkov-to-dose conversion factors. *Physica Medica*, **2020**, 78, 32-37	2.2	
4	Large-scale dosimetric assessment of Monte Carlo recalculated doses for lung robotic stereotactic body radiation therapy. *Physica Medica*, **2020**, 76, 7-15	2.2	
3	Investigation of field output factors using IAEA-AAPM TRS-483 code of practice recommendations and Monte Carlo simulation for 6 MV photon beams. *Journal of Radiotherapy in Practice*,1-6	0.3	
2	Comparison of quantitative and qualitative scoring approaches for radiation-induced pulmonary fibrosis as applied to a preliminary investigation into the efficacy of mesenchymal stem cell delivery methods in a rat model. *BJR|Open*, **2021**, 2, 20210006	1.4	
1	Poster - 16: Time-resolved diode dosimetry for in vivo proton therapy range verification: calibration through numerical modeling. *Medical Physics*, **2016**, 43, 4939-4939	4.2	