

# Jan Seuntjens

## 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.

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	IAEA-AAPM TRS-483-based reference dosimetry of the new RefleXion biology-guided radiotherapy (BgRT) machine. <i>Medical Physics</i> , <b>2021</b> , 48, 1884-1892	4.2	1
171	Clinical Implication of Dosimetry Formalisms for Electronic Low-Energy Photon Intraoperative Radiation Therapy. <i>Practical Radiation Oncology</i> , <b>2021</b> , 11, e114-e121	2.8	1
170	Strategic Training in Transdisciplinary Radiation Science for the 21st Century (STARS21): 15-Year Evaluation of an Innovative Research Training Program. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2021</b> , 110, 656-666	0.8	1
169	Ion chamber and film-based quality assurance of mixed electron-photon radiation therapy. <i>Medical Physics</i> , <b>2021</b> , 48, 5382-5395	4.2	1
168	An artificial intelligence framework integrating longitudinal electronic health records with real-world data enables continuous pan-cancer prognostication.. <i>Nature Cancer</i> , <b>2021</b> , 2, 709-722	14.7	7
167	The Rapidly-Developing Area of Radiocardiology: Principles, Complications and Applications of Radiotherapy in the Heart. <i>Canadian Journal of Cardiology</i> , <b>2021</b> , 37, 1818-1827	2	5
166	Determination of field output correction factors of radiophotoluminescence glass dosimeter and CC01 ionization chamber and validation against IAEA-AAPM TRS-483 code of practice. <i>Physica Medica</i> , <b>2021</b> , 88, 167-174	2.2	1
165	Investigating the impact of the CT Hounsfield unit range on radiomic feature stability using dual energy CT data. <i>Physica Medica</i> , <b>2021</b> , 88, 272-277	2.2	3
164	Feasibility of operating a millimeter-scale graphite calorimeter for absolute dosimetry of small-field photon beams in the clinic. <i>Medical Physics</i> , <b>2021</b> , 48, 7476-7492	4.2	0
163	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. <i>BJR/Open</i> , <b>2021</b> , 2, 20210006	1.4	
162	PD-1/PD-L1 Immune Checkpoint Inhibition with Radiation in Bladder Cancer: and Abscopal Effects. <i>Molecular Cancer Therapeutics</i> , <b>2020</b> , 19, 211-220	5.8	18
161	Beam modeling and beam model commissioning for Monte Carlo dose calculation-based radiation therapy treatment planning: Report of AAPM Task Group 157. <i>Medical Physics</i> , <b>2020</b> , 47, e1-e18	4.2	14
160	Absolute dosimetry of a 1.5 T MR-guided accelerator-based high-energy photon beam in water and solid phantoms using Aarrow. <i>Medical Physics</i> , <b>2020</b> , 47, 1291-1304	4.2	5
159	Novel knowledge-based treatment planning model for hypofractionated radiotherapy of prostate cancer patients. <i>Physica Medica</i> , <b>2020</b> , 69, 36-43	2.2	9
158	Step-size effect on calculated photon and electron beam Cherenkov-to-dose conversion factors. <i>Physica Medica</i> , <b>2020</b> , 78, 32-37	2.2	
157	Positional and angular tracking of HDR Ir source for brachytherapy quality assurance using radiochromic film dosimetry. <i>Medical Physics</i> , <b>2020</b> , 47, 6122-6139	4.2	2
156	On a local (de-)trapping model for highly doped Pr radioluminescent and persistent luminescent nanoparticles. <i>Nanoscale</i> , <b>2020</b> , 12, 20759-20766	7.5	6

155	Extending the IAEA-AAPM TRS-483 methodology for radiation therapy machines with field sizes down to 10 $\square$ cm. <i>Medical Physics</i> , <b>2020</b> , 47, 5209-5221	4.2	2
154	Large-scale dosimetric assessment of Monte Carlo recalculated doses for lung robotic stereotactic body radiation therapy. <i>Physica Medica</i> , <b>2020</b> , 76, 7-15	2.2	
153	Trajectory-based VMAT for cranial targets with delivery at shortened SAD. <i>Medical Physics</i> , <b>2020</b> , 47, 3103-3112	4.2	2
152	Monte Carlo and water calorimetric determination of kilovoltage beam radiotherapy ionization chamber correction factors. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 105001	3.6	4
151	Simultaneous trajectory generation and volumetric modulated arc therapy optimization. <i>Medical Physics</i> , <b>2020</b> , 47, 3078-3090	4.2	0
150	Overlooked pitfalls in multi-class machine learning classification in radiation oncology and how to avoid them. <i>Physica Medica</i> , <b>2020</b> , 70, 96-100	2.2	1
149	Comparing local control and distant metastasis in NSCLC patients between CyberKnife and conventional SBRT. <i>Radiotherapy and Oncology</i> , <b>2020</b> , 144, 201-208	1	6
148	Experimental validation of recommended msr-correction factors for the calibration of Leksell Gamma Knife Icon unit following IAEA TRS-483. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 065003	3.6	3
147	Monte Carlo calculation of the relative TG-43 dosimetry parameters for the INTRABEAM electronic brachytherapy source. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 245041	3.6	1
146	Monte Carlo calculated kilovoltage x-ray arc therapy plans for three lung cancer patients. <i>Biomedical Physics and Engineering Express</i> , <b>2019</b> , 5,	1.4	2
145	Size-specific dose estimations for pediatric chest, abdomen/pelvis and head CT scans with the use of GATE. <i>Physica Medica</i> , <b>2019</b> , 65, 181-190	2.2	7
144	Cellular Uptake, Cytotoxicity and Trafficking of Supported Lipid-Bilayer-Coated Lanthanide Upconverting Nanoparticles in Alveolar Lung Cancer Cells.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 4527-4536 <sup>4</sup>		5
143	. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , <b>2019</b> , 3, 210-215	4	16
142	Dose measurements nearby low energy electronic brachytherapy sources using radiochromic film. <i>Physica Medica</i> , <b>2019</b> , 64, 40-44	2.2	9
141	Monte Carlo simulations of different CT X-ray energy spectra within CTDI phantom and the influence of its changes on radiochromic film measurements. <i>Physica Medica</i> , <b>2019</b> , 62, 105-110	2.2	3
140	The immune mediated role of extracellular HMGB1 in a heterotopic model of bladder cancer radioresistance. <i>Scientific Reports</i> , <b>2019</b> , 9, 6348	4.7	10
139	Modeling the primary source intensity distribution: reconstruction and inter-comparison of six Varian TrueBeam sources. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 135005	3.6	2
138	Radio-selective effects of a natural occurring muscle-derived dipeptide in A549 and normal cell lines. <i>Scientific Reports</i> , <b>2019</b> , 9, 11513	4.7	3

137	Optically Stimulated Nanodosimeters with High Storage Capacity. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.2	12
136	Dose-response linearization in radiochromic film dosimetry based on multichannel normalized pixel value with an integrated spectral correction for scanner response variations. <i>Medical Physics</i> , <b>2019</b> , 46, 5336-5349	4.2	8
135	Head and neck squamous cell carcinoma: prediction of cervical lymph node metastasis by dual-energy CT texture analysis with machine learning. <i>European Radiology</i> , <b>2019</b> , 29, 6172-6181	7.8	49
134	Density effects of silica aerogel insulation on the performance of a graphite probe calorimeter. <i>Medical Physics</i> , <b>2019</b> , 46, 1874-1882	4.2	7
133	Deep learning in head & neck cancer outcome prediction. <i>Scientific Reports</i> , <b>2019</b> , 9, 2764	4.7	63
132	Proton beam therapy should remain in the public domain. <i>Cmaj</i> , <b>2019</b> , 191, E1284	3.4	
131	Perspective: lanthanide-doped upconverting nanoparticles. <i>Methods and Applications in Fluorescence</i> , <b>2019</b> , 7, 012004	3	17
130	Comparison of Radiomics Models Built Through Machine Learning in a Multicentric Context With Independent Testing: Identical Data, Similar Algorithms, Different Methodologies. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , <b>2019</b> , 3, 192-200	4	11
129	An Empirical Approach for Avoiding False Discoveries When Applying High-Dimensional Radiomics to Small Datasets. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , <b>2019</b> , 3, 201-209	4	13
128	Robust mixed electron-photon radiation therapy optimization. <i>Medical Physics</i> , <b>2019</b> , 46, 1384-1396	4.2	4
127	Determination of kQmsr, Q0fmsr, fref factors for ion chambers used in the calibration of Leksell Gamma Knife Perfexion model using EGSnrc and PENELOPE Monte Carlo codes. <i>Medical Physics</i> , <b>2018</b> , 45, 1748-1757	4.2	11
126	Radioluminescence studies of colloidal oleate-capped Na(Gd,Lu)F:Ln nanoparticles (Ln = Ce, Eu, Tb). <i>Nanoscale</i> , <b>2018</b> , 10, 7821-7832	7.5	21
125	Cell extracts from spleen and adipose tissues restore function to irradiation-injured salivary glands. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, e1289-e1296	4.2	3
124	Physics aspects of the Papillon technique-Five decades later. <i>Brachytherapy</i> , <b>2018</b> , 17, 234-243	1.3	1
123	Image quality for radiotherapy CT simulators with different scanner bore size. <i>Physica Medica</i> , <b>2018</b> , 45, 65-71	2.2	7
122	Optimal timing and frequency of bone marrow soup therapy for functional restoration of salivary glands injured by single-dose or fractionated irradiation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, e1195-e1205	4.2	8
121	Investigating the role of functional imaging in the management of soft-tissue sarcomas of the extremities. <i>Physics and Imaging in Radiation Oncology</i> , <b>2018</b> , 6, 53-60	3	3
120	Fluorescence Endomicroscopy Imaging of Mesenchymal Stem Cells in the Rat Lung. <i>Current Protocols in Stem Cell Biology</i> , <b>2018</b> , 45, e52	2.8	1

119	An investigation into the INTRABEAM miniature x-ray source dosimetry using ionization chamber and radiochromic film measurements. <i>Medical Physics</i> , <b>2018</b> , 45, 4274	4.2	20
118	RapidBrachyMCTPS: a Monte Carlo-based treatment planning system for brachytherapy applications. <i>Physics in Medicine and Biology</i> , <b>2018</b> , 63, 175007	3.6	16
117	Technical Note: Response time evolution of XR-QA2 GafChromic Film models. <i>Medical Physics</i> , <b>2018</b> , 45, 488-492	4.2	4
116	Aerrow: A probe-format graphite calorimeter for absolute dosimetry of high-energy photon beams in the clinical environment. <i>Medical Physics</i> , <b>2018</b> , 45, 414-428	4.2	14
115	Reply to "Comments on the TRS-483 Protocol on Small field Dosimetry" [Med. Phys. 45(12), 5666-5668 (2018)]. <i>Medical Physics</i> , <b>2018</b> , 45, 5669-5671	4.2	4
114	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. <i>Medical Physics</i> , <b>2018</b> , 45, e1123-e1145	4.2	94
113	Inverse optimization of low-cost kilovoltage x-ray arc therapy plans. <i>Medical Physics</i> , <b>2018</b> , 45, 5161-5174	4.2	5
112	Can dose outside the PTV influence the risk of distant metastases in stage I lung cancer patients treated with stereotactic body radiotherapy (SBRT)? <i>Radiotherapy and Oncology</i> , <b>2018</b> , 128, 513-519	1	10
111	Response to stereotactic ablative radiotherapy in a novel orthotopic model of non-small cell lung cancer. <i>Oncotarget</i> , <b>2018</b> , 9, 1630-1640	3.2	5
110	A comparative analysis of longitudinal computed tomography and histopathology for evaluating the potential of mesenchymal stem cells in mitigating radiation-induced pulmonary fibrosis. <i>Scientific Reports</i> , <b>2017</b> , 7, 9056	4.7	12
109	Performance of Knowledge-Based Radiation Therapy Planning for the Glioblastoma Disease Site. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2017</b> , 99, 1021-1028	0.8	31
108	Dose comparison between TG-43-based calculations and radiochromic film measurements of the Freiburg flap applicator used for high-dose-rate brachytherapy treatments of skin lesions. <i>Brachytherapy</i> , <b>2017</b> , 16, 1065-1072	1.3	9
107	Time-resolved diode dosimetry calibration through Monte Carlo modeling for in vivo passive scattered proton therapy range verification. <i>Journal of Applied Clinical Medical Physics</i> , <b>2017</b> , 18, 200-205	2.2	2
106	Image-Guided Fluorescence Endomicroscopy: From Macro- to Micro-Imaging of Radiation-Induced Pulmonary Fibrosis. <i>Scientific Reports</i> , <b>2017</b> , 7, 17829	4.7	5
105	Radiomics strategies for risk assessment of tumour failure in head-and-neck cancer. <i>Scientific Reports</i> , <b>2017</b> , 7, 10117	4.7	230
104	Determination of absorbed dose to water from a miniature kilovoltage x-ray source using a parallel-plate ionization chamber. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 63, 015016	3.6	14
103	Tracking of Mesenchymal Stem Cells with Fluorescence Endomicroscopy Imaging in Radiotherapy-Induced Lung Injury. <i>Scientific Reports</i> , <b>2017</b> , 7, 40748	4.7	16
102	Polarity and ion recombination corrections in continuous and pulsed beams for ionization chambers with high Z chamber walls. <i>Physica Medica</i> , <b>2017</b> , 35, 102-109	2.2	4

101	On mixed electron-photon radiation therapy optimization using the column generation approach. <i>Medical Physics</i> , <b>2017</b> , 44, 4287-4298	4.2	17
100	Experimental investigation on the accuracy of plastic scintillators and of the spectrum discrimination method in small photon fields. <i>Medical Physics</i> , <b>2017</b> , 44, 654-664	4.2	13
99	Synthesis and characterization of biologically stable, doped LaF <sub>3</sub> nanoparticles co-conjugated to PEG and photosensitizers. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2016</b> , 329, 26-34	4.6	17
98	Use of a control film piece in radiochromic film dosimetry. <i>Physica Medica</i> , <b>2016</b> , 32, 202-7	2.2	22
97	The Role of HMGB1 in Radioresistance of Bladder Cancer. <i>Molecular Cancer Therapeutics</i> , <b>2016</b> , 15, 471-95.8		45
96	Mesenchymal Stem Cells Adopt Lung Cell Phenotype in Normal and Radiation-induced Lung Injury Conditions. <i>Applied Immunohistochemistry and Molecular Morphology</i> , <b>2016</b> , 24, 283-95	1.9	6
95	Technical Note: Effect of explicit M and N-shell atomic transitions on a low-energy x-ray source. <i>Medical Physics</i> , <b>2016</b> , 43, 1760	4.2	11
94	Response to "Comment on PA protocol for EBT3 radiochromic film dosimetry using reflection scanningP" [Med. Phys. 41(12), 122101 (6pp.) (2014)]. <i>Medical Physics</i> , <b>2016</b> , 43, 1580-2	4.2	
93	Proton and light ion RBE for the induction of direct DNA double strand breaks. <i>Medical Physics</i> , <b>2016</b> , 43, 2131	4.2	16
92	The role of medical physics in prostate cancer radiation therapy. <i>Physica Medica</i> , <b>2016</b> , 32, 435-7	2.2	5
91	FDG-PET-based differential uptake volume histograms: a possible approach towards definition of biological target volumes. <i>British Journal of Radiology</i> , <b>2016</b> , 89, 20150388	3.3	3
90	Poster - 16: Time-resolved diode dosimetry for in vivo proton therapy range verification: calibration through numerical modeling. <i>Medical Physics</i> , <b>2016</b> , 43, 4939-4939	4.2	
89	Radiochromic film-based quality assurance for CT-based high-dose-rate brachytherapy. <i>Brachytherapy</i> , <b>2015</b> , 14, 578-85	1.3	8
88	Detector dose response in megavoltage small photon beams. II. Pencil beam perturbation effects. <i>Medical Physics</i> , <b>2015</b> , 42, 6048-61	4.2	43
87	Latent uncertainties of the precalculated track Monte Carlo method. <i>Medical Physics</i> , <b>2015</b> , 42, 479-90	4.2	7
86	Identification of the active components in Bone Marrow Soup: a mitigator against irradiation-injury to salivary glands. <i>Scientific Reports</i> , <b>2015</b> , 5, 16017	4.7	18
85	Bayesian network ensemble as a multivariate strategy to predict radiation pneumonitis risk. <i>Medical Physics</i> , <b>2015</b> , 42, 2421-30	4.2	34
84	Direct measurement of electron beam quality conversion factors using water calorimetry. <i>Medical Physics</i> , <b>2015</b> , 42, 6357-68	4.2	12

83	Measuring neutron spectra in radiotherapy using the nested neutron spectrometer. <i>Medical Physics</i> , <b>2015</b> , 42, 6162-9	4.2	24
82	Detector dose response in megavoltage small photon beams. I. Theoretical concepts. <i>Medical Physics</i> , <b>2015</b> , 42, 6033-47	4.2	69
81	How Low Should You Go: Choice of Minimum Dose Prescription in Cranial Radiosurgery. <i>Cureus</i> , <b>2015</b> , 7, e282	1.1	0
80	A protocol for EBT3 radiochromic film dosimetry using reflection scanning. <i>Medical Physics</i> , <b>2014</b> , 41, 122101	4.2	40
79	On the consistency of Monte Carlo track structure DNA damage simulations. <i>Medical Physics</i> , <b>2014</b> , 41, 121708	4.2	31
78	Characterization of calibration curves and energy dependence GafChromic XR-QA2 model based radiochromic film dosimetry system. <i>Medical Physics</i> , <b>2014</b> , 41, 062105	4.2	33
77	Addendum to the AAPM TG-51 protocol for clinical reference dosimetry of high-energy photon beams. <i>Medical Physics</i> , <b>2014</b> , 41, 041501	4.2	156
76	Monte Carlo investigation of collapsed versus rotated IMRT plan verification. <i>Journal of Applied Clinical Medical Physics</i> , <b>2014</b> , 15, 4681	2.2	3
75	Radiochromic film based dosimetry of image-guidance procedures on different radiotherapy modalities. <i>Journal of Applied Clinical Medical Physics</i> , <b>2014</b> , 15, 5006	2.2	19
74	A fast Monte Carlo code for proton transport in radiation therapy based on MCNPX. <i>Journal of Medical Physics</i> , <b>2014</b> , 39, 156-63	0.7	7
73	A source model for modulated electron radiation therapy using dynamic jaw movements. <i>Medical Physics</i> , <b>2013</b> , 40, 051707	4.2	3
72	Experimental analysis of general ion recombination in a liquid-filled ionization chamber in high-energy photon beams. <i>Medical Physics</i> , <b>2013</b> , 40, 062104	4.2	14
71	Development of a graphite probe calorimeter for absolute clinical dosimetry. <i>Medical Physics</i> , <b>2013</b> , 40, 020701	4.2	15
70	An investigation into the use of MMCTP to tune accelerator source parameters and testing its clinical application. <i>Journal of Applied Clinical Medical Physics</i> , <b>2013</b> , 14, 3692	2.2	11
69	Reply to "Comment on "Dose homogeneity specification for reference dosimetry of nonstandard fields" [Med. Phys. 39, 407-414 (2012)]. <i>Medical Physics</i> , <b>2013</b> , 40, 037102	4.2	
68	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, 011719	4.2	67
67	Paracrine effects of bone marrow soup restore organ function, regeneration, and repair in salivary glands damaged by irradiation. <i>PLoS ONE</i> , <b>2013</b> , 8, e61632	3.6	48
66	On charged particle equilibrium violation in external photon fields. <i>Medical Physics</i> , <b>2012</b> , 39, 1473-80	4.2	16

65	Linearization of dose-response curve of the radiochromic film dosimetry system. <i>Medical Physics</i> , <b>2012</b> , 39, 4850-7	4.2	57
64	Monte Carlo role in radiobiological modelling of radiotherapy outcomes. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, R75-97	3.6	73
63	Mesenchymal stem cell transplantation to promote bone healing. <i>Journal of Orthopaedic Research</i> , <b>2012</b> , 30, 1183-9	3.6	26
62	Dose homogeneity specification for reference dosimetry of nonstandard fields. <i>Medical Physics</i> , <b>2012</b> , 39, 407-14	4.2	19
61	Analytical modelling of regional radiotherapy dose response of lung. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 3309-21	3.6	11
60	Direct aperture optimization for FLEC-based MERT and its application in mixed beam radiotherapy. <i>Medical Physics</i> , <b>2012</b> , 39, 4820-31	4.2	15
59	A Monte Carlo method to evaluate the impact of positioning errors on detector response and quality correction factors in nonstandard beams. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 2617-34	3.6	19
58	Radiochromic film dosimetry of HDR (192)Ir source radiation fields. <i>Medical Physics</i> , <b>2011</b> , 38, 6074-83	4.2	43
57	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. <i>Radiotherapy and Oncology</i> , <b>2011</b> , 100, 253-8	1	22
56	4D dose-position verification in radiation therapy using the RADPOS system in a deformable lung phantom. <i>Medical Physics</i> , <b>2011</b> , 38, 179-87	4.2	20
55	Evaluation of EBT-2 model GAFCHROMIC film performance in water. <i>Medical Physics</i> , <b>2010</b> , 37, 3687-93	4.2	26
54	Absorption spectra time evolution of EBT-2 model GAFCHROMIC film. <i>Medical Physics</i> , <b>2010</b> , 37, 2207-14	4.2	80
53	Direct measurement of absorbed dose to water in HDR 192Ir brachytherapy: water calorimetry, ionization chamber, Gafchromic film, and TG-43. <i>Medical Physics</i> , <b>2010</b> , 37, 1924-32	4.2	33
52	Reference radiochromic film dosimetry in kilovoltage photon beams during CBCT image acquisition. <i>Medical Physics</i> , <b>2010</b> , 37, 1083-92	4.2	54
51	Toward automatic field selection and planning using Monte Carlo-based direct aperture optimization in modulated electron radiotherapy. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, 4563-76	3.6	15
50	Investigation of three radiation detectors for accurate measurement of absorbed dose in nonstandard fields. <i>Medical Physics</i> , <b>2010</b> , 37, 2404-13	4.2	24
49	Development of a water calorimetry-based standard for absorbed dose to water in HDR 192Ir brachytherapy. <i>Medical Physics</i> , <b>2010</b> , 37, 1914-23	4.2	15
48	Direct absorbed dose to water determination based on water calorimetry in scanning proton beam delivery. <i>Medical Physics</i> , <b>2010</b> , 37, 3541-50	4.2	21



47	Comment on "Reference radiochromic film dosimetry in kilovoltage photon beams during CBCT image acquisition" [Med. Phys. 37, 1083-1092 (2010)]. <i>Medical Physics</i> , <b>2010</b> , 37, 3008	4.2	4
46	Characterization of cylindrical ionization chambers for patient specific IMRT QA. <i>Journal of Applied Clinical Medical Physics</i> , <b>2009</b> , 10, 241-251	2.2	12
45	Ionization chamber gradient effects in nonstandard beam configurations. <i>Medical Physics</i> , <b>2009</b> , 36, 4654-4663	4.63	60
44	Photon absorbed dose standards. <i>Metrologia</i> , <b>2009</b> , 46, S39-S58	1.3	51
43	Considerations and limitations of fast Monte Carlo electron transport in radiation therapy based on precalculated data. <i>Medical Physics</i> , <b>2009</b> , 36, 530-40	4.2	5
42	Local correlation between monte-carlo dose and radiation-induced fibrosis in lung cancer patients. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2008</b> , 70, 921-30	0.8	16
41	A new formalism for reference dosimetry of small and nonstandard fields. <i>Medical Physics</i> , <b>2008</b> , 35, 5179-86	4.2	387
40	Influence of focal spot on characteristics of very small diameter radiosurgical beams. <i>Medical Physics</i> , <b>2008</b> , 35, 3317-30	4.2	33
39	A deformable phantom for 4D radiotherapy verification: design and image registration evaluation. <i>Medical Physics</i> , <b>2008</b> , 35, 1094-102	4.2	77
38	Third-party brachytherapy source calibrations and physicist responsibilities: report of the AAPM Low Energy Brachytherapy Source Calibration Working Group. <i>Medical Physics</i> , <b>2008</b> , 35, 3860-5	4.2	53
37	Absorption spectroscopy of EBT model GAFCHROMIC film. <i>Medical Physics</i> , <b>2007</b> , 34, 112-8	4.2	57
36	Design and dosimetry of a few leaf electron collimator for energy modulated electron therapy. <i>Medical Physics</i> , <b>2007</b> , 34, 4782-91	4.2	26
35	An absorbed dose to water standard for HDR 192Ir brachytherapy sources based on water calorimetry: numerical and experimental proof-of-principle. <i>Medical Physics</i> , <b>2007</b> , 34, 4957-61	4.2	16
34	Quantification of accuracy of the automated nonlinear image matching and anatomical labeling (ANIMAL) nonlinear registration algorithm for 4D CT images of lung. <i>Medical Physics</i> , <b>2007</b> , 34, 4409-21	4.2	28
33	Experimental verification of beam quality in high-contrast imaging with orthogonal bremsstrahlung photon beams. <i>Medical Physics</i> , <b>2007</b> , 34, 2896-906	4.2	5
32	Report of the AAPM Task Group No. 105: Issues associated with clinical implementation of Monte Carlo-based photon and electron external beam treatment planning. <i>Medical Physics</i> , <b>2007</b> , 34, 4818-53	4.2	435
31	A direct voxel tracking method for four-dimensional Monte Carlo dose calculations in deforming anatomy. <i>Medical Physics</i> , <b>2006</b> , 33, 434-45	4.2	55
30	Accurate skin dose measurements using radiochromic film in clinical applications. <i>Medical Physics</i> , <b>2006</b> , 33, 1116-24	4.2	156

29	Monte Carlo based modulated electron beam treatment planning using a few-leaf electron collimator--feasibility study. <i>Physics in Medicine and Biology</i> , <b>2005</b> , 50, 847-57	3.6	24
28	Validation of Monte Carlo calculated surface doses for megavoltage photon beams. <i>Medical Physics</i> , <b>2005</b> , 32, 286-98	4.2	50
27	Energy modulated electron therapy using a few leaf electron collimator in combination with IMRT and 3D-CRT: Monte Carlo-based planning and dosimetric evaluation. <i>Medical Physics</i> , <b>2005</b> , 32, 2976-86	4.2	32
26	Consistency test of the electron transport algorithm in the GEANT4 Monte Carlo code. <i>Physics in Medicine and Biology</i> , <b>2005</b> , 50, 681-94	3.6	44
25	Experimental determination of electron source parameters for accurate Monte Carlo calculation of large field electron therapy. <i>Physics in Medicine and Biology</i> , <b>2005</b> , 50, 779-86	3.6	18
24	Absorbed dose to water reference dosimetry using solid phantoms in the context of absorbed-dose protocols. <i>Medical Physics</i> , <b>2005</b> , 32, 2945-53	4.2	53
23	Precise radiochromic film dosimetry using a flat-bed document scanner. <i>Medical Physics</i> , <b>2005</b> , 32, 2245-53	4.2	427
22	Dosimetric and microdosimetric study of contrast-enhanced radiotherapy with kilovolt x-rays. <i>Physics in Medicine and Biology</i> , <b>2005</b> , 50, 3555-69	3.6	57
21	Dosimetric properties of improved GafChromic films for seven different digitizers. <i>Medical Physics</i> , <b>2004</b> , 31, 2392-401	4.2	202
20	Ionization chamber-based reference dosimetry of intensity modulated radiation beams. <i>Medical Physics</i> , <b>2004</b> , 31, 2454-65	4.2	86
19	Accurate determination of dose-point-kernel functions close to the origin using Monte Carlo simulations. <i>Medical Physics</i> , <b>2004</b> , 31, 814-8	4.2	7
18	Dosimetric evaluation of the clinical implementation of the first commercial IMRT Monte Carlo treatment planning system at 6 MV. <i>Medical Physics</i> , <b>2004</b> , 31, 2771-9	4.2	36
17	Comments on Ionization chamber dosimetry of small photon fields: a Monte Carlo study on stopping-power ratios for radiosurgery and IMRT beams. <i>Physics in Medicine and Biology</i> , <b>2003</b> , 48, L43-5; author reply L46-8	3.6	13
16	Physical aspects of dynamic stereotactic radiosurgery with very small photon beams (1.5 and 3 mm in diameter). <i>Medical Physics</i> , <b>2003</b> , 30, 111-8	4.2	60
15	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. <i>Medical Physics</i> , <b>2003</b> , 30, 2475-81	4.2	15
14	Development and validation of a BEAMnrc component module for accurate Monte Carlo modelling of the Varian dynamic Millennium multileaf collimator. <i>Physics in Medicine and Biology</i> , <b>2003</b> , 48, 4045-63	3.6	66
13	Monte Carlo modelling of external radiotherapy photon beams. <i>Physics in Medicine and Biology</i> , <b>2003</b> , 48, R107-64	3.6	269
12	Comparing calibration methods of electron beams using plane-parallel chambers with absorbed-dose to water based protocols. <i>Medical Physics</i> , <b>2002</b> , 29, 284-9	4.2	16

11	Comparison of dosimetric standards of Canada and France for photons at $^{60}\text{Co}$ and higher energies. <i>Physics in Medicine and Biology</i> , <b>2001</b> , 46, 2119-42	3.6	11
10	Monte Carlo study of correction factors for Spencer-Attix cavity theory at photon energies at or above 100 keV. <i>Medical Physics</i> , <b>2000</b> , 27, 1804-13	4.2	49
9	Absorbed-dose beam quality conversion factors for cylindrical chambers in high energy photon beams. <i>Medical Physics</i> , <b>2000</b> , 27, 2763-79	4.2	54
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7	Study of dosimetry consistency for kilovoltage x-ray beams. <i>Medical Physics</i> , <b>1998</b> , 25, 2376-84	4.2	24
6	Water calorimetry and ionization chamber dosimetry in an 85-MeV clinical proton beam. <i>Medical Physics</i> , <b>1996</b> , 23, 643-50	4.2	34
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1	Investigation of field output factors using IAEA-AAPM TRS-483 code of practice recommendations and Monte Carlo simulation for 6 MV photon beams. <i>Journal of Radiotherapy in Practice</i> , 1-6	0.3	