

Wesley S Culberson

List of Publications by Citations

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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.

47
papers

277
citations

10
h-index

14
g-index

51
ext. papers

378
ext. citations

3
avg, IF

3.78
L-index

#	Paper	IF	Citations
47	Radiation Biology Irradiator Dose Verification Survey. <i>Radiation Research</i> , 2016 , 185, 163-8	3.1	34
46	Experimental investigation of GafChromic EBT3 intrinsic energy dependence with kilovoltage x rays, Cs, and Co. <i>Medical Physics</i> , 2018 , 45, 448-459	4.4	23
45	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
44	Experimental Evolution of Extreme Resistance to Ionizing Radiation in after 50 Cycles of Selection. <i>Journal of Bacteriology</i> , 2019 , 201,	3.5	15
43	Development of a phantom to validate high-dose-rate brachytherapy treatment planning systems with heterogeneous algorithms. <i>Medical Physics</i> , 2015 , 42, 1566-74	4.4	15
42	Secondary Neutron Dose From a Dynamic Collimation System During Intracranial Pencil Beam Scanning Proton Therapy: A Monte Carlo Investigation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019 , 103, 241-250	4	14
41	Evaluation of radixact motion synchrony for 3D respiratory motion: Modeling accuracy and dosimetric fidelity. <i>Journal of Applied Clinical Medical Physics</i> , 2020 , 21, 96-106	2.3	13
40	The use of TLDs for brachytherapy dosimetry. <i>Radiation Measurements</i> , 2014 , 71, 276-281	1.5	12
39	An analysis of the ArcCHECK-MR diode array's performance for ViewRay quality assurance. <i>Journal of Applied Clinical Medical Physics</i> , 2017 , 18, 161-171	2.3	11
38	Air-kerma strength determination of a new directional (103)Pd source. <i>Medical Physics</i> , 2015 , 42, 7144-52	4.4	10
37	Insight gained from responses to surveys on reference dosimetry practices. <i>Journal of Applied Clinical Medical Physics</i> , 2017 , 18, 182-190	2.3	8
36	Experimental and Monte Carlo dosimetric characterization of a 1 cm (103)Pd brachytherapy source. <i>Brachytherapy</i> , 2014 , 13, 657-67	2.4	8
35	Air-kerma strength determination of an HDR Ir source including a geometric sensitivity study of the seven-distance method. <i>Medical Physics</i> , 2017 , 44, 311-320	4.4	7
34	Technical Note: Optimization of spot and trimmer position during dynamically collimated proton therapy. <i>Medical Physics</i> , 2019 , 46, 1922-1930	4.4	7
33	Deformable abdominal phantom for the validation of real-time image guidance and deformable dose accumulation. <i>Journal of Applied Clinical Medical Physics</i> , 2019 , 20, 122-133	2.3	6
32	Windowless extrapolation chamber measurement of surface dose rate from a 90Sr/90Y ophthalmic applicator. <i>Radiation Measurements</i> , 2018 , 108, 34-40	1.5	6
31	Dosimetric characterization of a new directional low-dose rate brachytherapy source. <i>Medical Physics</i> , 2018 , 45, 3848	4.4	6

30	LET response variability of Gafchromic EBT3 film from a Co calibration in clinical proton beam qualities. <i>Medical Physics</i> , 2019 , 46, 2716-2728	4.4	5
29	An investigation into the robustness of dynamically collimated proton therapy treatments. <i>Medical Physics</i> , 2020 , 47, 3545-3553	4.4	5
28	Technical Note: Patient dose from kilovoltage radiographs during motion-synchronized treatments on Radixact. <i>Medical Physics</i> , 2020 , 47, 5772-5778	4.4	5
27	Surface dose rate from a flat 106Ru/106Rh episcleral plaque measured with a planar windowless extrapolation chamber and un-laminated EBT3 film. <i>Radiation Measurements</i> , 2019 , 121, 18-25	1.5	5
26	A convex windowless extrapolation chamber to measure surface dose rate from Ru/ Rh episcleral plaques. <i>Medical Physics</i> , 2019 , 46, 2430-2443	4.4	4
25	Dosimetry evaluation of the GammaPod stereotactic radiosurgery device based on established AAPM and IAEA protocols. <i>Medical Physics</i> , 2020 , 47, 3614-3620	4.4	4
24	Monte Carlo and Co-based kilovoltage x-ray dosimetry methods. <i>Medical Physics</i> , 2018 , 45, 5564-5576	4.4	4
23	On the implementation of the plan-class specific reference field using multidimensional clustering of plan features and alternative strategies for improved dosimetry in modulated clinical linear accelerator treatments. <i>Medical Physics</i> , 2020 , 47, 3621-3635	4.4	3
22	Dosimetric comparison of DEFGEL and PAGAT formulae paired with an MRI acquisition. <i>Journal of Physics: Conference Series</i> , 2017 , 847,	0.3	3
21	VMAT and IMRT plan-specific correction factors for linac-based ionization chamber dosimetry. <i>Medical Physics</i> , 2019 , 46, 913-924	4.4	3
20	Technical Note: Characterization of clinical linear accelerator triggering latency for motion management system development. <i>Medical Physics</i> , 2018 , 45, 4816-4821	4.4	3
19	Design of a modulated orthovoltage stereotactic radiosurgery system. <i>Medical Physics</i> , 2017 , 44, 3776-3787	4.4	2
18	On the stability of well-type ionization chamber source strength calibration coefficients. <i>Medical Physics</i> , 2020 , 47, 4491-4501	4.4	2
17	Characterizing a PTW microDiamond detector in kilovoltage radiation beams. <i>Medical Physics</i> , 2020 , 47, 4553-4562	4.4	2
16	Air-kerma modulation effects on the energy spectrum of a 137Cs irradiator using Monte-Carlo techniques. <i>Radiation Measurements</i> , 2016 , 95, 9-15	1.5	2
15	Effects of variable-width jaw motion on beam characteristics for Radixact Synchrony [®] . <i>Journal of Applied Clinical Medical Physics</i> , 2021 , 22, 175-181	2.3	2
14	3D dosimetric validation of ultrasound-guided radiotherapy with a dynamically deformable abdominal phantom. <i>Physica Medica</i> , 2021 , 84, 159-167	2.7	2
13	Characterization of the energy spectrum of a 137Cs irradiator through measurements using a pulse-mode detector. <i>Radiation Measurements</i> , 2018 , 114, 1-7	1.5	1

12	Development and validation of the Dynamic Collimation Monte Carlo simulation package for pencil beam scanning proton therapy. <i>Medical Physics</i> , 2021 , 48, 3172-3185	4.4	1
11	Technical note: On the impact of the kV imaging configuration on doses from planar images during motion-synchronized treatments on Radixact [®] . <i>Journal of Applied Clinical Medical Physics</i> , 2021 , 22, 227-231	2.3	1
10	Technical Note: Dose gradients and prescription isodose in orthovoltage stereotactic radiosurgery. <i>Medical Physics</i> , 2016 , 43, 2072	4.4	1
9	Dose-rate considerations for the INTRABEAM electronic brachytherapy system: Report from the American association of physicists in medicine task group no. 292. <i>Medical Physics</i> , 2020 , 47, e913-e919	4.4	1
8	Prototype modulated orthovoltage stereotactic radiosurgery cones. <i>Radiation Measurements</i> , 2018 , 119, 33-41	1.5	1
7	Calculating dose from a 2.5 MV imaging beam using a commercial treatment planning system. <i>Journal of Applied Clinical Medical Physics</i> , 2019 , 20, 25-35	2.3	0
6	Experimental and Monte Carlo characterization of a dynamic collimation system prototype for pencil beam scanning proton therapy. <i>Medical Physics</i> , 2020 , 47, 5343-5356	4.4	0
5	Characterization of imaging performance of a novel helical kVCT for use in image-guided and adaptive radiotherapy.. <i>Journal of Applied Clinical Medical Physics</i> , 2022 , e13648	2.3	0
4	Ionization Chambers to Determine Neutron and Gamma-Ray Kerma in a Research Reactor. <i>IEEE Transactions on Nuclear Science</i> , 2019 , 66, 2160-2169	1.7	
3	Calibration of the photon component of ¹⁹⁸ Au stents. <i>Brachytherapy</i> , 2005 , 4, 51-8	2.4	
2	The Impact of Radiation Energy on Dose Homogeneity and Organ Dose in the Göttingen Minipig Total-Body Irradiation Model. <i>Radiation Research</i> , 2020 , 194, 544-556	3.1	
1	Using 4D dose accumulation to calculate organ-at-risk dose deviations from motion-synchronized liver and lung tomotherapy treatments.. <i>Journal of Applied Clinical Medical Physics</i> , 2022 , e13627	2.3	