

Pedro Andreo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/797125/publications.pdf>

Version: 2024-02-01

33
papers

1,308
citations

331259

21
h-index

395343

33
g-index

35
all docs

35
docs citations

35
times ranked

1068
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental determination of k_{Q} factors for two types of ionization chambers in scanned proton beams. <i>Physics in Medicine and Biology</i> , 2022, 67, 055001.	1.6	8
2	Inelastic collisions of fast charged particles with atoms: Bethe asymptotic formulas and shell corrections. <i>Physical Review A</i> , 2022, 105, .	1.0	5
3	Technical Note: SpekPy v2.0—a software toolkit for modeling x-ray tube spectra. <i>Medical Physics</i> , 2021, 48, 3630-3637.	1.6	41
4	Cerma-based formalism for the determination of absorbed dose for high-energy photon beams. <i>Medical Physics</i> , 2021, 48, 7461-7475.	1.6	4
5	Depth-dose measurement corrections for the surface electronic brachytherapy beams of an Esteya unit: a Monte Carlo study. <i>Physics in Medicine and Biology</i> , 2020, 65, 245026.	1.6	2
6	A model for the energy and angular distribution of x rays emitted from an x-ray tube. Part I. Bremsstrahlung production. <i>Medical Physics</i> , 2020, 47, 4763-4774.	1.6	16
7	A model for the energy and angular distribution of x rays emitted from an x-ray tube. Part II. Validation of x-ray spectra from 20 to 300 kV. <i>Medical Physics</i> , 2020, 47, 4005-4019.	1.6	16
8	Data for the dosimetry of low- and medium-energy kV x rays. <i>Physics in Medicine and Biology</i> , 2019, 64, 205019.	1.6	21
9	PENELOPE/PRIMO-calculated photon and electron spectra from clinical accelerators. <i>Radiation Oncology</i> , 2019, 14, 6.	1.2	26
10	Fluence calculation methods in Monte Carlo dosimetry simulations. <i>Zeitschrift Fur Medizinische Physik</i> , 2019, 29, 239-248.	0.6	7
11	The physics of small megavoltage photon beam dosimetry. <i>Radiotherapy and Oncology</i> , 2018, 126, 205-213.	0.3	43
12	Reply to “Comments on the TRS483 Protocol on Small field Dosimetry” [Med. Phys. 45(12), 5666–5668 (2018)]. <i>Medical Physics</i> , 2018, 45, 5669-5671.	1.6	4
13	Dosimetry of small static fields used in external photon beam radiotherapy: Summary of TRS483, the IAEA–AAPM international Code of Practice for reference and relative dose determination. <i>Medical Physics</i> , 2018, 45, e1123-e1145.	1.6	179
14	Comment on “Origins of the changing detector response in small megavoltage photon radiation fields”. <i>Physics in Medicine and Biology</i> , 2018, 63, 198001.	1.6	2
15	Optimized k_{Q} -values for use with the Bragg additivity rule and their impact on proton stopping power and range uncertainty. <i>Physics in Medicine and Biology</i> , 2018, 63, 165007.	1.6	31
16	Monte Carlo simulations in radiotherapy dosimetry. <i>Radiation Oncology</i> , 2018, 13, 121.	1.2	62
17	Collision-kerma conversion between dose-to-tissue and dose-to-water by photon energy-fluence corrections in low-energy brachytherapy. <i>Physics in Medicine and Biology</i> , 2017, 62, 146-164.	1.6	5
18	Spectral distribution of particle fluence in small field detectors and its implication on small field dosimetry. <i>Medical Physics</i> , 2017, 44, 713-724.	1.6	35

#	ARTICLE	IF	CITATIONS
19	Role of the density, density effect and mean excitation energy in solid-state detectors for small photon fields. <i>Physics in Medicine and Biology</i> , 2017, 62, 1518-1532.	1.6	25
20	Monte Carlo calculation of beam quality correction factors in proton beams using detailed simulation of ionization chambers. <i>Physics in Medicine and Biology</i> , 2016, 61, 2389-2406.	1.6	48
21	Comment on "Experimental determination of the PTW 60019 microDiamond dosimeter active area and volume" [Med. Phys. 43, 5205-5212 (2016)]. <i>Medical Physics</i> , 2016, 43, 6667-6667.	1.6	7
22	On the Monte Carlo simulation of small-field micro-diamond detectors for megavoltage photon dosimetry. <i>Physics in Medicine and Biology</i> , 2016, 61, L1-L10.	1.6	47
23	The research versus clinical service role of medical physics. <i>Radiotherapy and Oncology</i> , 2015, 114, 285-288.	0.3	24
24	Dose to "water-like" media or dose to tissue in MV photons radiotherapy treatment planning: still a matter of debate. <i>Physics in Medicine and Biology</i> , 2015, 60, 309-337.	1.6	70
25	Output correction factors for nine small field detectors in 6 MV radiation therapy photon beams: A PENELOPE Monte Carlo study. <i>Medical Physics</i> , 2014, 41, 041711.	1.6	114
26	Consistency in reference radiotherapy dosimetry: resolution of an apparent conundrum when ^{60}Co is the reference quality for charged-particle and photon beams. <i>Physics in Medicine and Biology</i> , 2013, 58, 6593-6621.	1.6	50
27	On the uncertainties of photon mass energy-absorption coefficients and their ratios for radiation dosimetry. <i>Physics in Medicine and Biology</i> , 2012, 57, 2117-2136.	1.6	66
28	On the clinical spatial resolution achievable with protons and heavier charged particle radiotherapy beams. <i>Physics in Medicine and Biology</i> , 2009, 54, N205-N215.	1.6	98
29	Electron beam quality correction factors for plane-parallel ionization chambers: Monte Carlo calculations using the PENELOPE system. <i>Physics in Medicine and Biology</i> , 2004, 49, 4427-4444.	1.6	94
30	Protocols for the dosimetry of high-energy photon and electron beams: a comparison of the IAEA TRS-398 and previous international Codes of Practice. <i>Physics in Medicine and Biology</i> , 2002, 47, 3033-3053.	1.6	47
31	Comparison of the IAEA TRS-398 and AAPM TG-51 absorbed dose to water protocols in the dosimetry of high-energy photon and electron beams. <i>Physics in Medicine and Biology</i> , 2001, 46, 2985-3006.	1.6	47
32	Reference dosimetry in clinical high-energy electron beams: Comparison of the AAPM TG-51 and AAPM TG-21 dosimetry protocols. <i>Medical Physics</i> , 2001, 28, 2077-2087.	1.6	19
33	Mean energy in electron beams. <i>Medical Physics</i> , 1981, 8, 682-687.	1.6	43