

Ernesto Mainegra-Hing

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4568728/publications.pdf>

Version: 2024-02-01

38
papers

1,146
citations

430754

18
h-index

377752

34
g-index

38
all docs

38
docs citations

38
times ranked

947
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiation attenuation by lead and nonlead materials used in radiation shielding garments. Medical Physics, 2007, 34, 530-537.	1.6	233
2	Optimizing non- Pb radiation shielding materials using bilayers. Medical Physics, 2009, 36, 5586-5594.	1.6	85
3	Ionization chamber dosimetry of small photon fields: a Monte Carlo study on stopping-power ratios for radiosurgery and IMRT beams. Physics in Medicine and Biology, 2003, 48, 2081-2099.	1.6	84
4	Efficient x-ray tube simulations. Medical Physics, 2006, 33, 2683-2690.	1.6	77
5	Monte Carlo reference data sets for imaging research: Executive summary of the report of AAPM Research Committee Task Group 195. Medical Physics, 2015, 42, 5679-5691.	1.6	76
6	Calculation of photon energy deposition kernels and electron dose point kernels in water. Medical Physics, 2005, 32, 685-699.	1.6	66
7	Variance reduction techniques for fast Monte Carlo CBCT scatter correction calculations. Physics in Medicine and Biology, 2010, 55, 4495-4507.	1.6	62
8	Calculations for plane-parallel ion chambers in ^{60}Co beams using the EGSnrc Monte Carlo code. Medical Physics, 2003, 30, 179-189.	1.6	47
9	Fast Monte Carlo calculation of scatter corrections for CBCT images. Journal of Physics: Conference Series, 2008, 102, 012017.	0.3	37
10	Hounsfield unit recovery in clinical cone beam CT images of the thorax acquired for image guided radiation therapy. Physics in Medicine and Biology, 2016, 61, 5781-5802.	1.6	37
11	Dose rate constants for ^{125}I , ^{103}Pd , ^{192}Ir and ^{169}Yb brachytherapy sources: an EGS4 Monte Carlo study. Physics in Medicine and Biology, 1998, 43, 1557-1566.	1.6	34
12	On the accuracy of techniques for obtaining the calibration coefficient NK of ^{192}Ir HDR brachytherapy sources. Medical Physics, 2006, 33, 3340-3347.	1.6	31
13	Patient-specific scatter correction in clinical cone beam computed tomography imaging made possible by the combination of Monte Carlo simulations and a ray tracing algorithm. Acta Oncologica, 2013, 52, 1477-1483.	0.8	30
14	Comparison between EGSnrc, Geant4, MCNP5 and Penelope for mono-energetic electron beams. Physics in Medicine and Biology, 2015, 60, 4951-4962.	1.6	30
15	Radial dose functions for ^{103}Pd , ^{125}I , ^{169}Yb and ^{192}Ir brachytherapy sources: an EGS4 Monte Carlo study. Physics in Medicine and Biology, 2000, 45, 703-717.	1.6	21
16	The WinALPHA code for the analysis of alpha-particle spectra. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 525, 522-528.	0.7	21
17	Electron accelerator-based production of molybdenum-99: Bremsstrahlung and photoneutron generation from molybdenum vs. tungsten. Nuclear Instruments & Methods in Physics Research B, 2016, 366, 124-139.	0.6	20
18	Optimizing cone beam CT scatter estimation in <code><tt>egs_cbct</tt></code> for a clinical and virtual chest phantom. Medical Physics, 2014, 41, 071902.	1.6	19

#	ARTICLE	IF	CITATIONS
19	Implementation of an efficient Monte Carlo calculation for CBCT scatter correction: phantom study. <i>Journal of Applied Clinical Medical Physics</i> , 2015, 16, 216-227.	0.8	16
20	Evidence for using Monte Carlo calculated wall attenuation and scatter correction factors for three styles of graphite-walled ion chamber. <i>Physics in Medicine and Biology</i> , 2004, 49, 2491-2501.	1.6	15
21	On the impact of ICRU report 90 recommendations on k Q factors for high-energy photon beams. <i>Medical Physics</i> , 2018, 45, 3904-3908.	1.6	15
22	Quantum Monte Carlo study of pairing interaction of the neutron-rich nuclei. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1998, 24, 1113-1123.	1.4	14
23	Novel approach for the Monte Carlo calculation of free-air chamber correction factors. <i>Medical Physics</i> , 2008, 35, 3650-3660.	1.6	14
24	The Fricke dosimeter as an absorbed dose to water primary standard for Ir-192 brachytherapy. <i>Physics in Medicine and Biology</i> , 2015, 60, 4481-4495.	1.6	13
25	Anisotropy functions for low energy interstitial brachytherapy sources: an EGS4 Monte Carlo study. <i>Physics in Medicine and Biology</i> , 2001, 46, 135-150.	1.6	12
26	A study of Type B uncertainties associated with the photoelectric effect in low-energy Monte Carlo simulations. <i>Physics in Medicine and Biology</i> , 2021, 66, 105014.	1.6	9
27	Validating Fricke dosimetry for the measurement of absorbed dose to water for HDR192Ir brachytherapy: a comparison between primary standards of the LCR, Brazil, and the NRC, Canada. <i>Physics in Medicine and Biology</i> , 2018, 63, 085004.	1.6	6
28	Anisotropy functions for ¹⁶⁹ Yb brachytherapy seed models 5, 8 and X1267. An EGS4 Monte Carlo study. <i>Physics in Medicine and Biology</i> , 2000, 45, 3693-3705.	1.6	5
29	Anisotropy function for ¹⁹² Ir low-dose-rate brachytherapy sources: an EGS4 Monte Carlo study. <i>Physics in Medicine and Biology</i> , 2001, 46, 1487-1499.	1.6	5
30	Nuclear state density calculations: An exact recursive approach. <i>Computer Physics Communications</i> , 2003, 150, 43-52.	3.0	4
31	SU-E-I-04: Implementation of a Fast Monte Carlo Scatter Correction for Cone- Beam Computed Tomography. <i>Medical Physics</i> , 2012, 39, 3625-3625.	1.6	4
32	Sci-Fri PM: Delivery - 12: Scatter-B-Gon: Implementing a fast Monte Carlo cone-beam computed tomography scatter correction on real data. <i>Medical Physics</i> , 2012, 39, 4644-4644.	1.6	1
33	TUâ€€Eâ€€Aâ€€05: Influence of Photon Scatter Modeling On Image Reconstruction Accuracy in CBCT. <i>Medical Physics</i> , 2008, 35, 2914-2914.	1.6	1
34	TU-C-108-10: Development of An Absorbed Dose to Water Primary Standard for HDR Ir-192 Brachytherapy Based On the Fricke Dosimetry System. <i>Medical Physics</i> , 2013, 40, 432-432.	1.6	1
35	Adoption of ICRU report 90 recommendations in the Canadian Co-60 air-kerma primary standard. <i>Metrologia</i> , 2022, 59, 045003.	0.6	1
36	TU-D-224C-08: Effect of Different Physical Processes and Data Sets On HVL Calculations. <i>Medical Physics</i> , 2006, 33, 2200-2200.	1.6	0

#	ARTICLE	IF	CITATIONS
37	SU-E-T-32: Monte Carlo Determination of WAFAC Corrections for the Canadian LDR Primary Standard. Medical Physics, 2013, 40, 210-210.	1.6	0
38	Key comparison BIPM.RI(I)-K3 of the air-kerma standards of the NRC, Canada and the BIPM in medium-energy x-rays. Metrologia, 2016, 53, 06008.	0.6	0