Ernesto Mainegra-Hing

List of Publications by Year
in descending order

38	1,146	430754 18	377752 34
papers	citations	h-index	g-index

38	38	38	947
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adoption of ICRU report 90 recommendations in the Canadian Co-60 air-kerma primary standard. Metrologia, 2022, 59, 045003.	0.6	1
2	A study of Type B uncertainties associated with the photoelectric effect in low-energy Monte Carlo simulations. Physics in Medicine and Biology, 2021, 66, 105014.	1.6	9
3	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. Physics in Medicine and Biology, 2018, 63, 085004.	1.6	6
4	On the impact of ICRU report 90 recommendations on k Q factors for high-energy photon beams. Medical Physics, 2018, 45, 3904-3908.	1.6	15
5	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
6	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
7	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
8	Implementation of an efficient Monte Carlo calculation for CBCT scatter correction: phantom study. Journal of Applied Clinical Medical Physics, 2015, 16, 216-227.	0.8	16
9	Comparison between EGSnrc, Geant4, MCNP5 and Penelope for mono-energetic electron beams. Physics in Medicine and Biology, 2015, 60, 4951-4962.	1.6	30
10	The Fricke dosimeter as an absorbed dose to water primary standard for Ir-192 brachytherapy. Physics in Medicine and Biology, 2015, 60, 4481-4495.	1.6	13
11	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
12	Optimizing cone beam CT scatter estimation in <tt>egs_cbct</tt> for a clinical and virtual chest phantom. Medical Physics, 2014, 41, 071902.	1.6	19
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 OncolÃ³gica, 2013, 52, 1477-1483.	0.8	30
14	TU-C-108-10: Development of An Absorbed Dose to Water Primary Standard for HDR Ir-192 Brachytherapy Based On the Fricke Dosimetry System. Medical Physics, 2013, 40, 432-432.	1.6	1
15	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
16	Sci-Fri PM: Delivery - 12: Scatter-B-Gon: Implementing a fast Monte Carlo cone-beam computed tomography scatter correction on real data. Medical Physics, 2012, 39, 4644-4644.	1.6	1
17	SU-E-I-04: Implementation of a Fast Monte Carlo Scatter Correction for Cone- Beam Computed Tomography. Medical Physics, 2012, 39, 3625-3625.	1.6	4
18	Variance reduction techniques for fast Monte Carlo CBCT scatter correction calculations. Physics in Medicine and Biology, 2010, 55, 4495-4507.	1.6	62

#	Article	IF	Citations
19	Optimizing nonâ€Pb radiation shielding materials using bilayers. Medical Physics, 2009, 36, 5586-5594.	1.6	85
20	Novel approach for the Monte Carlo calculation of free-air chamber correction factors. Medical Physics, 2008, 35, 3650-3660.	1.6	14
21	Fast Monte Carlo calculation of scatter corrections for CBCT images. Journal of Physics: Conference Series, 2008, 102, 012017.	0.3	37
22	TUâ€EEâ€A4â€05: Influence of Photon Scatter Modeling On Image Reconstruction Accuracy in CBCT. Medical Physics, 2008, 35, 2914-2914.	1.6	1
23	Radiation attenuation by lead and nonlead materials used in radiation shielding garments. Medical Physics, 2007, 34, 530-537.	1.6	233
24	Efficient x-ray tube simulations. Medical Physics, 2006, 33, 2683-2690.	1.6	77
25	On the accuracy of techniques for obtaining the calibration coefficient NK of Ir192 HDR brachytherapy sources. Medical Physics, 2006, 33, 3340-3347.	1.6	31
26	TU-D-224C-08: Effect of Different Physical Processes and Data Sets On HVL Calculations. Medical Physics, 2006, 33, 2200-2200.	1.6	0
27	Calculation of photon energy deposition kernels and electron dose point kernels in water. Medical Physics, 2005, 32, 685-699.	1.6	66
28	Evidence for using Monte Carlo calculated wall attenuation and scatter correction factors for three styles of graphite-walled ion chamber. Physics in Medicine and Biology, 2004, 49, 2491-2501.	1.6	15
29	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
30	Nuclear state density calculations: An exact recursive approach. Computer Physics Communications, 2003, 150, 43-52.	3.0	4
31	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
32	Calculations for plane-parallel ion chambers in 60Co beams using the EGSnrc Monte Carlo code. Medical Physics, 2003, 30, 179-189.	1.6	47
33	Anisotropy functions for low energy interstitial brachytherapy sources: an EGS4 Monte Carlo study. Physics in Medicine and Biology, 2001, 46, 135-150.	1.6	12
34	Anisotropy function for192Ir low-dose-rate brachytherapy sources: an EGS4 Monte Carlo study. Physics in Medicine and Biology, 2001, 46, 1487-1499.	1.6	5
35	Anisotropy functions for169Yb brachytherapy seed models 5, 8 and X1267. An EGS4 Monte Carlo study. Physics in Medicine and Biology, 2000, 45, 3693-3705.	1.6	5
36	Radial dose functions for103Pd,125I,169Yb and192Ir brachytherapy sources: an EGS4 Monte Carlo study. Physics in Medicine and Biology, 2000, 45, 703-717.	1.6	21

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37	Dose rate constants for125I,103Pd,192Ir and169Yb brachytherapy sources: an EGS4 Monte Carlo study. Physics in Medicine and Biology, 1998, 43, 1557-1566.	1.6	34
38	Quantum Monte Carlo study of pairing interaction of the neutron-rich nuclei. Journal of Physics G: Nuclear and Particle Physics, 1998, 24, 1113-1123.	1.4	14