

Juan I Lagares

List of Publications by Year in descending order

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686830

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580395

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64
all docs

64
docs citations

64
times ranked

665
citing authors

#	ARTICLE	IF	CITATIONS
1	Gamos: A framework to do Geant4 simulations in different physics fields with an user-friendly interface. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 735, 304-313.	0.7	108
2	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
3	An EGSnrc Monte Carlo study of the microionization chamber for reference dosimetry of narrow irregular IMRT beamlets. Medical Physics, 2004, 31, 2416-2422.	1.6	80
4	Routine IMRT verification by means of an automated Monte Carlo simulation system. International Journal of Radiation Oncology Biology Physics, 2003, 56, 58-68.	0.4	59
5	GAMOS: A Geant4-based easy and flexible framework for nuclear medicine applications. , 2008, , .		53
6	Estimation of neutron-equivalent dose in organs of patients undergoing radiotherapy by the use of a novel online digital detector. Physics in Medicine and Biology, 2012, 57, 6167-6191.	1.6	52
7	Uncertainty Estimation in Intensity-Modulated Radiotherapy Absolute Dosimetry Verification. International Journal of Radiation Oncology Biology Physics, 2007, 68, 301-310.	0.4	33
8	Micro ionization chamber dosimetry in IMRT verification: Clinical implications of dosimetric errors in the PTV. Radiotherapy and Oncology, 2005, 75, 342-348.	0.3	28
9	Total skin electron therapy treatment verification: Monte Carlo simulation and beam characteristics of large non-standard electron fields. Physics in Medicine and Biology, 2003, 48, 2783-2796.	1.6	22
10	MLC leaf width impact on the clinical dose distribution: a Monte Carlo approach. International Journal of Radiation Oncology Biology Physics, 2004, 59, 1548-1559.	0.4	22
11	Production of ¹⁸ F-labeled Titanium Dioxide Nanoparticles by Proton Irradiation for Biodistribution and Biological Fate Studies in Rats. Particle and Particle Systems Characterization, 2014, 31, 134-142.	1.2	18
12	A new online detector for estimation of peripheral neutron equivalent dose in organ. Medical Physics, 2014, 41, 112105.	1.6	18
13	Analytical model for photon peripheral dose estimation in radiotherapy treatments. Biomedical Physics and Engineering Express, 2015, 1, 045205.	0.6	18
14	Microionization chamber for reference dosimetry in IMRT verification: clinical implications on OAR dosimetric errors. Physics in Medicine and Biology, 2005, 50, 959-970.	1.6	16
15	GAMOS: An easy and flexible way to use GEANT4. , 2011, , .		12
16	Postal dosimetry audit test for small photon beams. Radiotherapy and Oncology, 2012, 102, 135-141.	0.3	8
17	A Compact Detector Module Design Based on FlexToT ASICs for Time-of-Flight PET-MR. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 549-553.	2.7	7
18	Calculation by GAMOS/Geant4 simulation of cellular energy distributions from alpha and lithium-7 particles created by BNCT. Applied Radiation and Isotopes, 2018, 132, 206-211.	0.7	6

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19	The wall correction factor for a spherical ionization chamber used in brachytherapy source calibration. <i>Physics in Medicine and Biology</i> , 2003, 48, 4091-4103.	1.6	5
20	Neutron spectra around a tandem linear accelerator in the generation of ¹⁸ F with a bonner sphere spectrometer. <i>Applied Radiation and Isotopes</i> , 2016, 114, 154-158.	0.7	5
21	A proposal for a Geant4 physics list for radiotherapy optimized in physics performance and CPU time. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 964, 163755.	0.7	5
22	Neutron spectra inside an adult and children anthropomorphic phantoms in high energy radiotherapy. <i>IFMBE Proceedings</i> , 2013, , 1145-1148.	0.2	4
23	A new physics model for the charged particle transport with Geant4. , 2011, , .		3
24	CPU time optimization and precise adjustment of the Geant4 physics parameters for a VARIAN 2100 C/D gamma radiotherapy linear accelerator simulation using GAMOS. <i>Physics in Medicine and Biology</i> , 2018, 63, 035007.	1.6	3
25	SU ² â€”157: CARMEN: A MatLabâ€”Based Research Platform for Monte Carlo Treatment Planning (MCTP) and Customized System for Planning Evaluation. <i>Medical Physics</i> , 2015, 42, 3367-3368.	1.6	3
26	Peripheral Organ Equivalent Dose Estimation Procedure in Proton Therapy. <i>Frontiers in Oncology</i> , 0, 12, .	1.3	3
27	Optimization of an external beam radiotherapy treatment using GAMOS/Geant4. <i>IFMBE Proceedings</i> , 2009, , 794-797.	0.2	2
28	1499 poster PERIPHERAL GAMMA DOSE AND THERMAL NEUTRON FLUENCIES EVALUATION FOR IMRT ON ADULT, TEEN AND CHILD. <i>Radiotherapy and Oncology</i> , 2011, 99, S558.	0.3	2
29	Neutron Contamination in Medical Linear Accelerators Operating at Electron Mode. <i>IFMBE Proceedings</i> , 2013, , 1225-1228.	0.2	2
30	242 poster Dynamic IMRT segment optimisation for a faster MC verification. <i>Radiotherapy and Oncology</i> , 2003, 68, S91-S92.	0.3	1
31	AN EASY-TO-USE FRAMEWORK FOR BRACHYTHERAPY MC DOSE CALCULATIONS, WITH SEED IDENTIFICATION AND REAL SEED GEOMETRY. <i>Radiotherapy and Oncology</i> , 2009, 92, S219-S220.	0.3	1
32	Point Detector Scorer in GAMOS/Geant4. , 2010, , .		1
33	1497 poster NEUTRON DOSE IN PELVIC RADIOOTHERAPY TREATMENT LOCATION.. <i>Radiotherapy and Oncology</i> , 2011, 99, S557-S558.	0.3	1
34	422 poster COMPARISON OF PHOTO-NEUTRON FLUENCE FOR DIFFERENT ENERGIES, MANUFACTURERS AND MODELS OF LINACS.. <i>Radiotherapy and Oncology</i> , 2011, 99, S168.	0.3	1
35	Characterization of the proton beam from an IBA Cyclone 18/9 with radiochromic film EBT2. , 2012, , .		1
36	Production of [¹¹ C]CO ₂ with gas target at low proton energies. <i>Applied Radiation and Isotopes</i> , 2013, 78, 10-15.	0.7	1

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37	A utility to read automatically DICOM format data for GAMOS/Geant4 simulation. <i>Physica Medica</i> , 2016, 32, 256.	0.4	1
38	SU-E-T-391: Modelling Peripheral Photon Dose in TomoTherapy Treatments. <i>Medical Physics</i> , 2012, 39, 3794-3794.	1.6	1
39	Developing Biomedical Applications in the Framework of EELA. , 2009, , 206-218.		1
40	188 Energy and intensity modulated electron radiation therapy by means of a Monte Carlo routine. <i>Radiotherapy and Oncology</i> , 2005, 76, S94.	0.3	0
41	252 Monte Carlo study on IMRT and Radiosurgery dosimetry performed by ionization chamber. <i>Radiotherapy and Oncology</i> , 2005, 76, S120.	0.3	0
42	329 Characterization of a new target in a Siemens Primus linac by means of Monte Carlo simulation. <i>Radiotherapy and Oncology</i> , 2005, 76, S150.	0.3	0
43	330 Determination of the most probable ways followed by photons in a 6MV Siemens Primus linac. <i>Radiotherapy and Oncology</i> , 2005, 76, S150-S151.	0.3	0
44	331 Some transmission influencing factors of a MLC analyzed by EGSnrc Monte Carlo code. <i>Radiotherapy and Oncology</i> , 2005, 76, S151.	0.3	0
45	332 Development of new features for multileaf collimator component modules in BEAMnrc. <i>Radiotherapy and Oncology</i> , 2005, 76, S151.	0.3	0
46	414 Dose error contribution in film dosimetry due to interference effect using a document scanner. <i>Radiotherapy and Oncology</i> , 2005, 76, S182.	0.3	0
47	425 Use of Mutual Information for solving image superposition-linked issues in IMRT verification. <i>Radiotherapy and Oncology</i> , 2005, 76, S186.	0.3	0
48	1099 poster HIGH MEGAVOLTAGE RADIOTHERAPY NEUTRON SPECTRA SIMULATION INSIDE AN ANTHROPOMORPHIC PHANTOM. <i>Radiotherapy and Oncology</i> , 2011, 99, S409.	0.3	0
49	1498 poster NEUTRON FLUENCE DISTRIBUTION STUDY IN A PROTON THERAPY FACILITY BUNKER. <i>Radiotherapy and Oncology</i> , 2011, 99, S558.	0.3	0
50	102 oral PERIPHERAL GAMMA DOSE AND THERMAL NEUTRON FLUENCIES EVALUATION IN DIFFERENT MATERIALS FOR IMRT. <i>Radiotherapy and Oncology</i> , 2011, 99, S38.	0.3	0
51	420 poster THERMAL NEUTRON FLUENCY MEASUREMENT IN A HEAD AND NECK PROTON THERAPY TREATMENT. <i>Radiotherapy and Oncology</i> , 2011, 99, S167-S168.	0.3	0
52	1428 poster VERIFICATION OF A PROTON THERAPY FACILITY MONTE CARLO SIMULATION BASED ON THE GAMOS/GEANT4 FRAMEWORK. <i>Radiotherapy and Oncology</i> , 2011, 99, S531.	0.3	0
53	EP-1383 EXPERIMENTAL DETERMINATION OF PERIPHERAL PHOTON DOSE IN MODERN RADIOTHERAPY. <i>Radiotherapy and Oncology</i> , 2012, 103, S525.	0.3	0
54	EP-1380 MEASUREMENTS OF PERIPHERAL PHOTON DOSE IN CONFORMAL RADIOTHERAPY. <i>Radiotherapy and Oncology</i> , 2012, 103, S523-S524.	0.3	0

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55	Neutron Distribution in Radiotherapy Treatment Rooms. IFMBE Proceedings, 2013, , 1245-1248.	0.2	0
56	EP-1798: Online neutron fluence measurements in phantom for second cancer risk estimation in radiotherapy. Radiotherapy and Oncology, 2014, 111, S288-S289.	0.3	0
57	Peripheral dose assessment after IMRT and VMAT vs CFRT. Physica Medica, 2014, 30, e33.	0.4	0
58	PO-1629 Monte Carlo calculation for metallic and synthetic material modeling in proton therapy. Radiotherapy and Oncology, 2021, 161, S1350-S1351.	0.3	0
59	MO-E-T-617-01: Energy and Intensity Modulated Electron Radiation Therapy Using a Monte Carlo Optimization Procedure. Medical Physics, 2005, 32, 2070-2070.	1.6	0
60	SU-E-T-43: Analytical Model for Photon Peripheral Dose in Radiotherapy Treatments. Medical Physics, 2014, 41, 231-231.	1.6	0
61	SU-F-J-99: Dose Accumulation and Evaluation in Lung SBRT Among All Phases of Respiration. Medical Physics, 2016, 43, 3429-3429.	1.6	0
62	Simulation tools used with preclinical computational models. , 0, , .		0