

# Juan I Lagares

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1408674/publications.pdf>

Version: 2024-02-01

62  
papers

697  
citations

686830

13  
h-index

580395

25  
g-index

64  
all docs

64  
docs citations

64  
times ranked

665  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | PO-1629 Monte Carlo calculation for metallic and synthetic material modeling in proton therapy. Radiotherapy and Oncology, 2021, 161, S1350-S1351.  | 0.3 | 0         |
| 2  | A proposal for a Geant4 physics list for radiotherapy optimized in physics performance and CPU time. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 964, 163755.      | 0.7 | 5         |
| 3  | CPU time optimization and precise adjustment of the Geant4 physics parameters for a VARIAN 2100 C/D gamma radiotherapy linear accelerator simulation using GAMOS. Physics in Medicine and Biology, 2018, 63, 035007.  | 1.6 | 3         |
| 4  | 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         |
| 5  | 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         |
| 6  | A utility to read automatically DICOM format data for GAMOS/Geant4 simulation. Physica Medica, 2016, 32, 256.   | 0.4 | 1         |
| 7  | Neutron spectra around a tandem linear accelerator in the generation of <sup>18</sup> F with a bonner sphere spectrometer. Applied Radiation and Isotopes, 2016, 114, 154-158.  | 0.7 | 5         |
| 8  | 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         |
| 9  | Analytical model for photon peripheral dose estimation in radiotherapy treatments. Biomedical Physics and Engineering Express, 2015, 1, 045205.   | 0.6 | 18        |
| 10 | SU-E-A-157: CARMEN: A MatLab-Based Research Platform for Monte Carlo Treatment Planning (MCTP) and Customized System for Planning Evaluation. Medical Physics, 2015, 42, 3367-3368.   | 1.6 | 3         |
| 11 | Production of <sup>18</sup> 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 | 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         |
| 13 | A new online detector for estimation of peripheral neutron equivalent dose in organ. Medical Physics, 2014, 41, 112105.   | 1.6 | 18        |
| 14 | Peripheral dose assessment after IMRT and VMAT vs CFRT. Physica Medica, 2014, 30, e33.  | 0.4 | 0         |
| 15 | 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       |
| 16 | SU-E-T-43: Analytical Model for Photon Peripheral Dose in Radiotherapy Treatments. Medical Physics, 2014, 41, 231-231.  | 1.6 | 0         |
| 17 | Production of [ <sup>11</sup> C]CO <sub>2</sub> with gas target at low proton energies. Applied Radiation and Isotopes, 2013, 78, 10-15.  | 0.7 | 1         |
| 18 | Neutron Distribution in Radiotherapy Treatment Rooms. IFMBE Proceedings, 2013, , 1245-1248.   | 0.2 | 0         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Neutron spectra inside an adult and children anthropomorphic phantoms in high energy radiotherapy. IFMBE Proceedings, 2013, , 1145-1148.   | 0.2 | 4         |
| 20 | Neutron Contamination in Medical Linear Accelerators Operating at Electron Mode. IFMBE Proceedings, 2013, , 1225-1228.   | 0.2 | 2         |
| 21 | Characterization of the proton beam from an IBA Cyclone 18/9 with radiochromic film EBT2. , 2012, , .  |     | 1         |
| 22 | Postal dosimetry audit test for small photon beams. Radiotherapy and Oncology, 2012, 102, 135-141.   | 0.3 | 8         |
| 23 | EP-1383 EXPERIMENTAL DETERMINATION OF PERIPHERAL PHOTON DOSE IN MODERN RADIOTHERAPY. Radiotherapy and Oncology, 2012, 103, S525.   | 0.3 | 0         |
| 24 | 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        |
| 25 | EP-1380 MEASUREMENTS OF PERIPHERAL PHOTON DOSE IN CONFORMAL RADIOTHERAPY. Radiotherapy and Oncology, 2012, 103, S523-S524.   | 0.3 | 0         |
| 26 | SU-E-T-391: Modelling Peripheral Photon Dose in TomoTherapy Treatments. Medical Physics, 2012, 39, 3794-3794.  | 1.6 | 1         |
| 27 | 1099 poster HIGH MEGAVOLTAGE RADIOTHERAPY NEUTRON SPECTRA SIMULATION INSIDE AN ANTHROPOMORPHIC PHANTOM. Radiotherapy and Oncology, 2011, 99, S409.                                       | 0.3 | 0         |
| 28 | 1499 poster PERIPHERAL GAMMA DOSE AND THERMAL NEUTRON FLUENCIES EVALUATION FOR IMRT ON ADULT, TEEN AND CHILD. Radiotherapy and Oncology, 2011, 99, S558.                                 | 0.3 | 2         |
| 29 | 1498 poster NEUTRON FLUENCE DISTRIBUTION STUDY IN A PROTON THERAPY FACILITY BUNKER. Radiotherapy and Oncology, 2011, 99, S558.   | 0.3 | 0         |
| 30 | 1497 poster NEUTRON DOSE IN PELVIC RADIOTHERAPY TREATMENT LOCATION.. Radiotherapy and Oncology, 2011, 99, S557-S558.   | 0.3 | 1         |
| 31 | Anew physics model for the charged particle transport with Geant4. , 2011, , .   |     | 3         |
| 32 | 102 oral PERIPHERAL GAMMA DOSE AND THERMAL NEUTRON FLUENCIES EVALUATION IN DIFFERENT MATERIALS FOR IMRT. Radiotherapy and Oncology, 2011, 99, S38.                                       | 0.3 | 0         |
| 33 | 420 poster THERMAL NEUTRON FLUENCY MEASUREMENT IN A HEAD AND NECK PROTON THERAPY TREATMENT. Radiotherapy and Oncology, 2011, 99, S167-S168.  | 0.3 | 0         |
| 34 | 422 poster COMPARISON OF PHOTO-NEUTRON FLUENCE FOR DIFFERENT ENERGIES, MANUFACTURERS AND MODELS OF LINACS.. Radiotherapy and Oncology, 2011, 99, S168.                                   | 0.3 | 1         |
| 35 | GAMOS: An easy and flexible way to use GEANT4. , 2011, , .   |     | 12        |
| 36 | 1428 poster VERIFICATION OF A PROTON THERAPY FACILITY MONTE CARLO SIMULATION BASED ON THE GAMOS/GEANT4 FRAMEWORK. Radiotherapy and Oncology, 2011, 99, S531.                             | 0.3 | 0         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Point Detector Scorer in GAMOS/Geant4. , 2010, , .  |     | 1         |
| 38 | Optimization of an external beam radiotherapy treatment using GAMOS/Geant4. IFMBE Proceedings, 2009, , 794-797.   | 0.2 | 2         |
| 39 | AN EASY-TO-USE FRAMEWORK FOR BRACHYTHERAPY MC DOSE CALCULATIONS, WITH SEED IDENTIFICATION AND REAL SEED GEOMETRY. Radiotherapy and Oncology, 2009, 92, S219-S220.           | 0.3 | 1         |
| 40 | Developing Biomedical Applications in the Framework of EELA. , 2009, , 206-218.   |     | 1         |
| 41 | GAMOS: A Geant4-based easy and flexible framework for nuclear medicine applications. , 2008, , .  |     | 53        |
| 42 | Uncertainty Estimation in Intensity-Modulated Radiotherapy Absolute Dosimetry Verification. International Journal of Radiation Oncology Biology Physics, 2007, 68, 301-310. | 0.4 | 33        |
| 43 | 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        |
| 44 | 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        |
| 45 | 188 Energy and intensity modulated electron radiation therapy by means of a Monte Carlo routine. Radiotherapy and Oncology, 2005, 76, S94.                                  | 0.3 | 0         |
| 46 | 252 Monte Carlo study on IMRT and Radiosurgery dosimetry performed by ionization chamber. Radiotherapy and Oncology, 2005, 76, S120.  | 0.3 | 0         |
| 47 | 329 Characterization of a new target in a Siemens Primus linac by means of Monte Carlo simulation. Radiotherapy and Oncology, 2005, 76, S150.                               | 0.3 | 0         |
| 48 | 330 Determination of the most probable ways followed by photons in a 6MV Siemens Primus linac. Radiotherapy and Oncology, 2005, 76, S150-S151.                              | 0.3 | 0         |
| 49 | 331 Some transmission influencing factors of a MLC analyzed by EGSnrc Monte Carlo code. Radiotherapy and Oncology, 2005, 76, S151.  | 0.3 | 0         |
| 50 | 332 Development of new features for multileaf collimator component modules in BEAMnrc. Radiotherapy and Oncology, 2005, 76, S151.   | 0.3 | 0         |
| 51 | 414 Dose error contribution in film dosimetry due to interference effect using a document scanner. Radiotherapy and Oncology, 2005, 76, S182.                               | 0.3 | 0         |
| 52 | 425 Use of Mutual Information for solving image superposition-linked issues in IMRT verification. Radiotherapy and Oncology, 2005, 76, S186.                                | 0.3 | 0         |
| 53 | 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         |
| 54 | 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        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | An EGSnrc Monte Carlo study of the microionization chamber for reference dosimetry of narrow irregular IMRT beamlets. <i>Medical Physics</i> , 2004, 31, 2416-2422.                                      | 1.6 | 80        |
| 56 | Routine IMRT verification by means of an automated Monte Carlo simulation system. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003, 56, 58-68.                                  | 0.4 | 59        |
| 57 | 242 poster Dynamic IMRT segment optimisation for a faster MC verification. <i>Radiotherapy and Oncology</i> , 2003, 68, S91-S92.   | 0.3 | 1         |
| 58 | Ionization chamber dosimetry of small photon fields: a Monte Carlo study on stopping-power ratios for radiosurgery and IMRT beams. <i>Physics in Medicine and Biology</i> , 2003, 48, 2081-2099.         | 1.6 | 84        |
| 59 | Total skin electron therapy treatment verification: Monte Carlo simulation and beam characteristics of large non-standard electron fields. <i>Physics in Medicine and Biology</i> , 2003, 48, 2783-2796. | 1.6 | 22        |
| 60 | 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         |
| 61 | Simulation tools used with preclinical computational models. , 0, , .  |     | 0         |
| 62 | Peripheral Organ Equivalent Dose Estimation Procedure in Proton Therapy. <i>Frontiers in Oncology</i> , 0, 12, .   | 1.3 | 3         |