

# Carlos Aso Oliveira

## List of Publications by Year in descending order

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43  
papers

349  
citations

840776

11  
h-index

839539

18  
g-index

43  
all docs

43  
docs citations

43  
times ranked

235  
citing authors

#	ARTICLE	IF	CITATIONS
1	SIMPLE dark matter search results. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 621, 233-238.	4.1	55
2	Optimization of PGNAA instrument design for cement raw materials using the MCNP code. Journal of Radioanalytical and Nuclear Chemistry, 1997, 216, 191-198.	1.5	34
3	Monte Carlo modelling for the inÂvivo lung monitoring of enriched uranium: Results of an international comparison. Radiation Measurements, 2012, 47, 492-500.	1.4	25
4	Dose rate determinations in the Portuguese Gamma Irradiation Facility: Monte Carlo simulations and measurements. Radiation Physics and Chemistry, 2000, 58, 279-285.	2.8	23
5	Dose determination by Monte Carlo â€” a useful tool in gamma radiation process. Radiation Physics and Chemistry, 2000, 57, 667-670.	2.8	21
6	Response of SIMPLE SDDs to monochromatic neutron irradiations. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 526, 348-358.	1.6	21
7	A Monte Carlo multiple source model applied to radiosurgery narrow photon beams. Medical Physics, 2004, 31, 2192-2204.	3.0	16
8	Thermal analysis evaluation of mechanical properties changes promoted by gamma radiation on surgical polymeric textiles. Nuclear Instruments & Methods in Physics Research B, 2002, 191, 675-679.	1.4	14
9	Elemental composition of coal by using prompt gamma-neutron activation analysis. Journal of Radioanalytical and Nuclear Chemistry, 1993, 167, 153-160.	1.5	13
10	Basic dosimetry of radiosurgery narrow beams using Monte Carlo simulations: A detailed study of depth of maximum dose. Medical Physics, 2003, 30, 2904-2911.	3.0	13
11	A Monte Carlo study of the influence of the geometry arrangements and structural materials on a PGNAA system performance for cement raw material analysis. Applied Radiation and Isotopes, 1997, 48, 1349-1354.	1.5	11
12	Isodose distributions and dose uniformity in the Portuguese gamma irradiation facility calculated using the MCNP code. Radiation Physics and Chemistry, 2001, 61, 791-793.	2.8	11
13	Monte Carlo studies of the irradiator geometry of the Portuguese Gamma Irradiation Facility. Radiation Physics and Chemistry, 2002, 65, 293-295.	2.8	9
14	Monte Carlo validation of the irradiator parameters of the Portuguese gamma irradiation facility after its replenishment. Applied Radiation and Isotopes, 2010, 68, 190-195.	1.5	8
15	Corrections for volume hydrogen content in coal analysis by prompt gamma neutron activation analysis. Nuclear Instruments & Methods in Physics Research B, 1992, 66, 465-469.	1.4	7
16	Monte Carlo studies for irradiation process planning at the Portuguese gamma irradiation facility. Applied Radiation and Isotopes, 2000, 53, 867-875.	1.5	7
17	Comparison of deterministic and Monte Carlo methods in shielding design. Radiation Protection Dosimetry, 2005, 115, 254-257.	0.8	7
18	Calibration curves of a PGNAA system for cement raw material analysis using the MCNP code. Applied Radiation and Isotopes, 1998, 49, 1685-1689.	1.5	6

#	ARTICLE	IF	CITATIONS
19	Comparative study of Curie-ventor ionization chambers using Monte Carlo simulations. Applied Radiation and Isotopes, 2010, 68, 1121-1127.	1.5	6
20	Density and water content corrections in the gamma count rate of a PGNAA system for cement raw material analysis using the MCNP Code. Applied Radiation and Isotopes, 1998, 49, 923-930.	1.5	5
21	Control of refractory lining wear by using radioisotopes. International Journal of Radiation Applications and Instrumentation Part A, Applied Radiation and Isotopes, 1988, 39, 1265-1267.	0.5	4
22	MCNP optimization of filtered neutron beams for calibration of the SIMPLE detector. Nuclear Instruments & Methods in Physics Research B, 2004, 213, 172-176.	1.4	4
23	Neutron spectrometry with large volume, heavy-loaded superheated droplet detectors: a simple spin-off. Radiation Protection Dosimetry, 2005, 115, 398-402.	0.8	4
24	The determination of the focal spot size of an X-ray tube from the radiation beam profile. Radiation Measurements, 2015, 82, 138-145.	1.4	4
25	A superconductive measurement of the beta decay spectrum. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 444, 84-87.	1.6	3
26	RECENT RESULTS FROM THE SIMPLE DARK MATTER SEARCH. , 2005, , .		3
27	Monte Carlo simulation for dose distribution calculations in a CT-based phantom at the Portuguese gamma irradiation facility. Nuclear Instruments & Methods in Physics Research B, 2004, 213, 662-665.	1.4	2
28	Simulation studies on a prototype ionisation chamber for measurement of personal dose equivalent, Hp(10). Radiation Protection Dosimetry, 2006, 125, 175-179.	0.8	2
29	SIMPLE limits on spin-dependent WIMP interactions. Journal of Physics: Conference Series, 2006, 39, 114-116.	0.4	2
30	The simple SDD. Radiation Protection Dosimetry, 2006, 120, 503-508.	0.8	2
31	Development of a new ionisation chamber, for HP(10) measurement, using Monte-Carlo simulation and experimental methods. Radiation Protection Dosimetry, 2011, 144, 168-172.	0.8	2
32	Full characterization of the <sup>125</sup> I Bt Bebig I25.S16 brachytherapy source and sensitivity study of the absorbed dose to water due to the seed dimensional variations. Metrologia, 2012, 49, S223-S227.	1.2	2
33	Some uses of radioisotope techniques in Portugal. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 280, 530-534.	1.6	1
34	Monte Carlo Simulation of Electron Beams for Radiotherapy - EGS4, MCNP4b and GEANT3 Intercomparison. , 2001, , 311-316.		1
35	Monte Carlo Studies of the Portuguese Gamma Irradiation Facility. The Irradiator Geometry and Its Influence on Process Parameters. , 2001, , 497-502.		1
36	Design and calibration of a gamma ray transmission density probe. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1987, 260, 276-279.	1.6	0

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37	Design, construction and use of nuclear instrumentation in Portugal. International Journal of Radiation Applications and Instrumentation Part A, Applied Radiation and Isotopes, 1990, 41, 1057-1066.	0.5	0
38	A superconductive measurement of the $^{187}\text{Re}$ beta decay spectrum: preliminary results. Nuclear Physics, Section B, Proceedings Supplements, 2000, 87, 493-494.	0.4	0
39	Status of the Lisbon experiment on neutrino mass determination. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 520, 138-141.	1.6	0
40	Interim storage of spent and disused sealed sources: optimisation of external dose distribution in waste grids using the MCNPX code. Radiation Protection Dosimetry, 2005, 116, 417-422.	0.8	0
41	SI physiological units. International Journal of Metrology and Quality Engineering, 2015, 6, 203.	1.0	0
42	A comparative study of three ionizing chambers for measurements of personal dose equivalent, $\text{Hp}(10)$ . Radiation Physics and Chemistry, 2015, 116, 82-86.	2.8	0
43	The Status of SIMPLE in 2002. , 2002, , 524-528.		0