

Luis Peralta

List of Publications by Year in descending order

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71
papers

7,182
citations

394286

19
h-index

143943

57
g-index

71
all docs

71
docs citations

71
times ranked

11750
citing authors

#	ARTICLE	IF	CITATIONS
1	Geant4 developments and applications. IEEE Transactions on Nuclear Science, 2006, 53, 270-278.	1.2	4,869
2	Precision electroweak measurements on the Z resonance. Physics Reports, 2006, 427, 257-454.	10.3	974
3	Performance of the DELPHI detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 378, 57-100.	0.7	294
4	Searches for supersymmetric particles in e^+e^- collisions up to 208 GeV and interpretation of the results within the MSSM. European Physical Journal C, 2003, 31, 421-479.	1.4	221
5	Design and evaluation of the clear-PEM scanner for positron emission mammography. IEEE Transactions on Nuclear Science, 2006, 53, 71-77.	1.2	111
6	The production of f_0/\tilde{f}_0 in 200 GeV/A oxygen-uranium interactions. Zeitschrift für Physik C-Particles and Fields, 1988, 38, 117-124.	1.5	60
7	Emission channeling studies of Pr in GaN. Journal of Applied Physics, 2000, 88, 1319-1324.	1.1	51
8	Geant4 applications and developments for medical physics experiments. IEEE Transactions on Nuclear Science, 2004, 51, 1412-1419.	1.2	45
9	$\pi^+\pi^0$ and muon pair production in p-W and S-U collisions. Nuclear Physics A, 1994, 566, 77-85.	0.6	36
10	Clear-PEM: A PET imaging system dedicated to breast cancer diagnostics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 571, 81-84.	0.7	26
11	Lattice location of implanted Cu in highly doped Si. Applied Physics Letters, 2000, 77, 2142-2144.	1.5	25
12	Search for a fermiophobic Higgs at LEP 2. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 507, 89-103.	1.5	25
13	Portuguese students' knowledge of radiation physics. Physics Education, 2006, 41, 259-262.	0.3	25
14	Search for fermiophobic Higgs bosons in final states with photons at LEP 2. European Physical Journal C, 2004, 35, 313-324.	1.4	24
15	Muon pair and vector meson cross-sections in p-W and S-U collisions at 200 GeV/nucleon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 368, 230-238.	1.5	22
16	The small angle tile calorimeter in the DELPHI experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 425, 106-139.	0.7	22
17	Clear-PEM: A dedicated pet camera for improved breast cancer detection. Radiation Protection Dosimetry, 2005, 116, 208-210.	0.4	22
18	Direct evidence for implanted Fe on substitutional Ga sites in GaN. Applied Physics Letters, 2001, 78, 3217-3219.	1.5	21

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19	Application of GEANT4 radiation transport toolkit to dose calculations in anthropomorphic phantoms. <i>Applied Radiation and Isotopes</i> , 2004, 61, 1451-1461.	0.7	21
20	Production of $\bar{\Lambda}^0$ and $\bar{\Sigma}^0$ in p-W and S-U collisions at 200 GeV/nucleon. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 368, 239-243.	1.5	19
21	A Monte Carlo multiple source model applied to radiosurgery narrow photon beams. <i>Medical Physics</i> , 2004, 31, 2192-2204.	1.6	16
22	Response of plastic scintillators to low-energy photons. <i>Physics in Medicine and Biology</i> , 2014, 59, 4621-4633.	1.6	16
23	Temperature dependence of plastic scintillators. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 883, 20-23.	0.7	16
24	Determination of the $e^+e^- \rightarrow \Lambda^0 \bar{\Lambda}^0$ cross-section at centre-of-mass energies ranging from 189 GeV to 202 GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 491, 67-80.	1.5	15
25	Basic dosimetry of radiosurgery narrow beams using Monte Carlo simulations: A detailed study of depth of maximum dose. <i>Medical Physics</i> , 2003, 30, 2904-2911.	1.6	13
26	Development of a scintillating optical fiber dosimeter with silicon photomultipliers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 735, 640-643.	0.7	13
27	Dose mapping of a ^{60}Co irradiation facility using PENELOPE and MCNPX and its validation by chemical dosimetry. <i>Applied Radiation and Isotopes</i> , 2008, 66, 435-440.	0.7	12
28	AlfaMC: A fast alpha particle transport Monte Carlo code. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 737, 163-169.	0.7	12
29	The DELPHI small angle tile calorimeter. <i>IEEE Transactions on Nuclear Science</i> , 1995, 42, 478-484.	1.2	10
30	Determination of the $e^+e^- \rightarrow \gamma\gamma$ cross-section at LEP 2. <i>European Physical Journal C</i> , 2004, 37, 405-419.	1.4	10
31	A study of $\bar{\Lambda}^0$ and \bar{K}^0 production in proton-uranium and oxygen-uranium interactions at 22 GeV/A using decay muons. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1988, 38, 129-133.	1.5	9
32	$\bar{\Lambda}^0$ and production in p-U and S-U collisions at 200. <i>Nuclear Physics A</i> , 1994, 566, 371-374.	0.6	9
33	Measuring the activity of a radioactive source in the classroom. <i>European Journal of Physics</i> , 2004, 25, 211-219.	0.3	9
34	Prototype design, construction and test of a Pb/scintillator sampling calorimeter with wavelength shifter fiber optic readout. <i>IEEE Transactions on Nuclear Science</i> , 1993, 40, 537-545.	1.2	8
35	A powerful simulation tool for medical physics applications: Geant4. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2003, 125, 80-84.	0.5	8
36	Scan path optimization with/without clustering for active beam delivery in charged particle therapy. <i>Physica Medica</i> , 2015, 31, 130-136.	0.4	7

#	ARTICLE	IF	CITATIONS
37	COMPARISON OF RADON MASS EXHALATION RATE MEASUREMENTS FROM BUILDING MATERIALS BY TWO DIFFERENT METHODS. Radiation Protection Dosimetry, 2020, 191, 255-259.	0.4	7
38	What are the 50 cent Euro coins made of?. European Journal of Physics, 2008, 29, 901-909.	0.3	6
39	Si-PIN photodiode readout for a scintillating optical fiber dosimeter. Radiation Measurements, 2012, 47, 947-950.	0.7	6
40	Human exposure to indoor radon: a survey in the region of Guarda, Portugal. Radiation Protection Dosimetry, 2013, 154, 237-244.	0.4	6
41	Development of a low-cost monitor for radon detection in air. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 969, 164033.	0.7	6
42	Radon concentration potential in Bibala municipality water: Consequences for public consumption. Radiation Physics and Chemistry, 2020, 173, 108951.	1.4	6
43	Breast imaging with a dedicated PEM. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 527, 87-91.	0.7	5
44	Plastic scintillation detectors for dose monitoring in digital breast tomosynthesis. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 877, 346-348.	0.7	5
45	Radioactive ^{222}Rn daughter nuclides on a paper strip. European Journal of Physics, 2003, 24, 149-157.	0.3	4
46	Meson production in $p+U$, $O+U$ and $S+U$ interactions at 200 GeV/nucleon. Zeitschrift für Physik C-Particles and Fields, 1992, 55, 365-371.	1.5	3
47	First Experimental Results with the ClearPEM Detector. , 0, , .		3
48	A simple electron-positron pair production experiment. American Journal of Physics, 2006, 74, 457-461.	0.3	3
49	Scintillating optical fiber dosimetry with photodiode readout. , 2008, , .		3
50	Calibration of an alpha particle irradiator for in vitro cells irradiation. International Journal of Low Radiation, 2010, 7, 500.	0.1	3
51	Can the HVL help the mechanical X-ray tube characterization?. X-Ray Spectrometry, 2011, 40, 235-239.	0.9	3
52	Brachytherapy dosimeter with silicon photomultipliers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 787, 358-360.	0.7	3
53	Monte Carlo simulation of neutron thermalization in matter. European Journal of Physics, 2002, 23, 307-314.	0.3	2
54	Fast electron beam simulation and dose calculation in radiotherapy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 522, 568-578.	0.7	2

#	ARTICLE	IF	CITATIONS
55	A new low-energy bremsstrahlung generator for GEANT4. Radiation Protection Dosimetry, 2005, 116, 59-64.	0.4	2
56	X-ray detection visits the classroom. Physics Education, 2008, 43, 350-352.	0.3	2
57	Impact of total variation minimization in volume rendering visualization of breast tomosynthesis data. Computer Methods and Programs in Biomedicine, 2020, 195, 105534.	2.6	2
58	Exposure to radon in buildings in the municipality of Lubango, Angola, during winter months. Journal of Radioanalytical and Nuclear Chemistry, 2021, 327, 635-642.	0.7	2
59	Performance of the DELPHI small angle tile calorimeter. IEEE Transactions on Nuclear Science, 1996, 43, 1496-1500.	1.2	1
60	Plastic scintillator dosimetry in radiology applications. , 2011, , .		1
61	Early RHIC hyperon results from PHENIX?. Journal of Physics G: Nuclear and Particle Physics, 1999, 25, 481-483.	1.4	0
62	Monte Carlo simulation of the Varian Clinac 600C accelerator dynamic and physical wedges. Journal of Physics: Conference Series, 2007, 74, 021015.	0.3	0
63	Small dimension plastic dosimeter in high dose rate brachytherapy with ^{192}Ir source. , 2011, , .		0
64	Cosmic ray detection made easy. Physics Education, 2012, 47, 143-144.	0.3	0
65	Reassessment of structural shielding design in mammography installations. Radiation Protection Dosimetry, 2013, 154, 45-51.	0.4	0
66	Scatter fraction with simulations. Radiation Protection Dosimetry, 2014, 162, 52-57.	0.4	0
67	Fiber optic dosimeter with silicon photomultipliers. , 2014, , .		0
68	An environmental dose experiment. European Journal of Physics, 2017, 38, 065801.	0.3	0
69	ALPHACAL: A new user-friendly tool for the calibration of alpha-particle sources. Applied Radiation and Isotopes, 2018, 135, 78-82.	0.7	0
70	Deteção da radiação α emitida por um filamento de tungstênio aquecido. Revista Brasileira De Ensino De Fisica, 2016, 38, .	0.2	0
71	Proteção contra a radiação ultravioleta fornecida por Å^3 culos de sol. Revista Brasileira De Ensino De Fisica, 0, 42, .	0.2	0