

Joo F C A Veloso

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123
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126
ext. papers

3,483
ext. citations

2.8
avg, IF

3.76
L-index

#	Paper	IF	Citations
123	The size of the proton. <i>Nature</i> , 2010 , 466, 213-6	50.4	885
122	Proton structure from the measurement of 2S-2P transition frequencies of muonic hydrogen. <i>Science</i> , 2013 , 339, 417-20	33.3	548
121	Laser spectroscopy of muonic deuterium. <i>Science</i> , 2016 , 353, 669-73	33.3	171
120	Illuminating the proton radius conundrum: the μe^+ Lamb shift This paper was presented at the International Conference on Precision Physics of Simple Atomic Systems, held at École de Physique, les Houches, France, 30 May to June, 2010.. <i>Canadian Journal of Physics</i> , 2011 , 89, 47-57	1.1	66
119	NEXT-100 Technical Design Report (TDR). Executive summary. <i>Journal of Instrumentation</i> , 2012 , 7, T06001-T06001	1.1	66
118	First Measurement of Transverse-Spin-Dependent Azimuthal Asymmetries in the Drell-Yan Process. <i>Physical Review Letters</i> , 2017 , 119, 112002	7.4	42
117	Towards THGEM UV-photon detectors for RICH: on single-photon detection efficiency in Ne/CH ₄ and Ne/CF ₄ . <i>Journal of Instrumentation</i> , 2010 , 5, P01002-P01002	1	38
116	The Muonic Hydrogen Lamb Shift Experiment at PSI. <i>Hyperfine Interactions</i> , 2001 , 138, 55-60	0.8	36
115	Background rejection in NEXT using deep neural networks. <i>Journal of Instrumentation</i> , 2017 , 12, T01004-T01004	1.1	66
114	Initial results of NEXT-DEMO, a large-scale prototype of the NEXT-100 experiment. <i>Journal of Instrumentation</i> , 2013 , 8, P04002-P04002	1	33
113	The muonic hydrogen Lamb-shift experiment. <i>Canadian Journal of Physics</i> , 2005 , 83, 339-349	1.1	30
112	Powerful fast triggerable 6 μs laser for the muonic hydrogen 2S-Lamb shift experiment. <i>Optics Communications</i> , 2005 , 253, 362-374	2	30
111	Operation and first results of the NEXT-DEMO prototype using a silicon photomultiplier tracking array. <i>Journal of Instrumentation</i> , 2013 , 8, P09011-P09011	1	28
110	Development of high-gain gaseous photomultipliers for the visible spectral range. <i>Journal of Instrumentation</i> , 2009 , 4, P07005-P07005	1	28
109	THGEM-based detectors for sampling elements in DHCAL: laboratory and beam evaluation. <i>Journal of Instrumentation</i> , 2012 , 7, C05011-C05011	1	27
108	Demonstration of Single-Barium-Ion Sensitivity for Neutrinoless Double-Beta Decay Using Single-Molecule Fluorescence Imaging. <i>Physical Review Letters</i> , 2018 , 120, 132504	7.4	26
107	Status of the muonic hydrogen Lamb-shift experiment. <i>Canadian Journal of Physics</i> , 2007 , 85, 469-478	1.1	25

106	The gain in Thick GEM multipliers and its time-evolution. <i>Journal of Instrumentation</i> , 2015 , 10, P03026-P03026	23
105	Detection of single photons with ThickGEM-based counters. <i>Journal of Instrumentation</i> , 2012 , 7, C02014-C02014	23
104	Characterisation of NEXT-DEMO using xenon K α -rays. <i>Journal of Instrumentation</i> , 2014 , 9, P10007-P10007	22
103	A microstrip gas chamber as a VUV photosensor for a xenon gas proportional scintillation counter. <i>IEEE Transactions on Nuclear Science</i> , 1996 , 43, 1232-1236	1.7 22
102	The Lamb-shift experiment in Muonic helium. <i>Hyperfine Interactions</i> , 2012 , 212, 195-201	0.8 21
101	Application of the microhole and strip plate detector for neutron detection. <i>IEEE Transactions on Nuclear Science</i> , 2004 , 51, 2104-2109	1.7 21
100	Ion backflow in thick GEM-based detectors of single photons. <i>Journal of Instrumentation</i> , 2013 , 8, P01021-P01021	21
99	Minimization of parallax error in positron emission tomography using depth of interaction capable detectors: methods and apparatus. <i>Biomedical Physics and Engineering Express</i> , 2019 , 5, 062001	1.5 19
98	Precision determination of the dpiNN transition strength at threshold. <i>Physical Review Letters</i> , 2010 , 104, 142503	7.4 19
97	The Thick-COBRA: a new gaseous electron multiplier for radiation detectors. <i>Journal of Instrumentation</i> , 2010 , 5, P10002-P10002	1 19
96	Single Photon Counting X-Ray Imaging System Using a Micro Hole and Strip Plate. <i>IEEE Transactions on Nuclear Science</i> , 2008 , 55, 2341-2345	1.7 19
95	Ionization and scintillation response of high-pressure xenon gas to alpha particles. <i>Journal of Instrumentation</i> , 2013 , 8, P05025-P05025	1 18
94	The NEXT White (NEW) detector. <i>Journal of Instrumentation</i> , 2018 , 13, P12010-P12010	1 18
93	Radiopurity assessment of the tracking readout for the NEXT double beta decay experiment. <i>Journal of Instrumentation</i> , 2015 , 10, P05006-P05006	1 17
92	Radiopurity control in the NEXT-100 double beta decay experiment: procedures and initial measurements. <i>Journal of Instrumentation</i> , 2013 , 8, T01002-T01002	1 17
91	Characterization of a medium size Xe/TMA TPC instrumented with microbulk Micromegas, using low-energy β rays. <i>Journal of Instrumentation</i> , 2014 , 9, C04015-C04015	1 16
90	Energy resolved X-ray fluorescence imaging based on a micropattern gas detector. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010 , 65, 241-247	3.1 16
89	Measuring the β particle charge radius with muonic helium-4 ions. <i>Nature</i> , 2021 , 589, 527-531	50.4 16

88	Progresses in the production of large-size THGEM boards. <i>Journal of Instrumentation</i> , 2014 , 9, C03046-C03046	15	
87	A dynamic method for charging-up calculations: the case of GEM. <i>Journal of Instrumentation</i> , 2014 , 9, P07025-P07025	1	14
86	Beam studies of novel THGEM-based potential sampling elements for Digital Hadron Calorimetry. <i>Journal of Instrumentation</i> , 2013 , 8, P07017-P07017	1	14
85	Description and commissioning of NEXT-MM prototype: first results from operation in a Xenon-Trimethylamine gas mixture. <i>Journal of Instrumentation</i> , 2014 , 9, P03010-P03010	1	13
84	X-ray imaging detector based on a position sensitive THCOBRA with resistive line. <i>Journal of Instrumentation</i> , 2013 , 8, P05016-P05016	1	13
83	The size of the proton and the deuteron. <i>Journal of Physics: Conference Series</i> , 2011 , 264, 012008	0.3	13
82	EDXRF imaging of Pb in glazed ceramics using a micropattern gas detector. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 395, 2073-80	4.4	13
81	Characterization of an energy dispersive X-ray fluorescence imaging system based on a Micropattern Gaseous Detector. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2011 , 66, 308-313	3.1	13
80	A large area full-field EDXRF imaging system based on a THCOBRA gaseous detector. <i>Journal of Analytical Atomic Spectrometry</i> , 2015 , 30, 343-352	3.7	12
79	Radiopurity assessment of the energy readout for the NEXT double beta decay experiment. <i>Journal of Instrumentation</i> , 2017 , 12, T08003-T08003	1	12
78	Performance of a gaseous detector based energy dispersive X-ray fluorescence imaging system: Analysis of human teeth treated with dental amalgam. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013 , 86, 115-122	3.1	12
77	Calibration of the NEXT-White detector using ⁸³ mKr decays. <i>Journal of Instrumentation</i> , 2018 , 13, P10014-P10014	1	11
76	Elemental mapping in a contemporary miniature by full-field X-ray fluorescence imaging with gaseous detector vs. scanning X-ray fluorescence imaging with polycapillary optics. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017 , 129, 1-7	3.1	11
75	First in-beam studies of a Resistive-Plate WELL gaseous multiplier. <i>Journal of Instrumentation</i> , 2016 , 11, P01005-P01005	1	11
74	Simulation of gain stability of THGEM gas-avalanche particle detectors. <i>Journal of Instrumentation</i> , 2018 , 13, P01015-P01015	1	11
73	Single-Electron Response Using a GEM-MIGAS Electron Multiplier. <i>IEEE Transactions on Nuclear Science</i> , 2008 , 55, 2334-2340	1.7	11
72	. <i>IEEE Transactions on Nuclear Science</i> , 2004 , 51, 1503-1508	1.7	11
71	Electron drift and longitudinal diffusion in high pressure xenon-helium gas mixtures. <i>Journal of Instrumentation</i> , 2019 , 14, P08009-P08009	1	10

70	Status and progress of novel photon detectors based on THGEM and hybrid MPGD architectures. <i>Journal of Instrumentation</i> , 2013 , 8, C12005-C12005	1	10
69	. <i>IEEE Transactions on Nuclear Science</i> , 2010 , 57, 938-943	1.7	10
68	SiPMs coated with TPB: coating protocol and characterization for NEXT. <i>Journal of Instrumentation</i> , 2012 , 7, P02010-P02010	1	10
67	Recent investigations of cascaded GEM and MHSP detectors. <i>IEEE Transactions on Nuclear Science</i> , 2004 , 51, 2097-2103	1.7	10
66	Initial results on energy resolution of the NEXT-White detector. <i>Journal of Instrumentation</i> , 2018 , 13, P10020-P10020	1	10
65	An homeopathic cure to pure Xenon large diffusion. <i>Journal of Instrumentation</i> , 2016 , 11, C02007-C02007		9
64	MPGD-based counters of single photons developed for COMPASS RICH-1. <i>Journal of Instrumentation</i> , 2014 , 9, C09017-C09017	1	9
63	Measurements of charging-up processes in THGEM-based particle detectors. <i>Journal of Instrumentation</i> , 2018 , 13, P03009-P03009	1	9
62	Improved x-ray detection and particle identification with avalanche photodiodes. <i>Review of Scientific Instruments</i> , 2015 , 86, 053102	1.7	8
61	Lifetime and population of the 2S state in muonic hydrogen and deuterium. <i>Physical Review A</i> , 2013 , 88,	2.6	8
60	Energy resolution studies for NEXT. <i>Journal of Instrumentation</i> , 2011 , 6, P05007-P05007	1	8
59	Application of the digital pulse processing technique to gas proportional scintillation counters. <i>IEEE Transactions on Nuclear Science</i> , 1997 , 44, 521-526	1.7	8
58	THGEM gain calculations using Garfield++: solving discrepancies between simulation and experimental data. <i>Journal of Instrumentation</i> , 2016 , 11, P08018-P08018	1	8
57	Electron drift properties in high pressure gaseous xenon. <i>Journal of Instrumentation</i> , 2018 , 13, P07013-P07013		8
56	An improved measurement of electron-ion recombination in high-pressure xenon gas. <i>Journal of Instrumentation</i> , 2015 , 10, P03025-P03025	1	7
55	Application and performance of an ML-EM algorithm in NEXT. <i>Journal of Instrumentation</i> , 2017 , 12, P08009-P08009		7
54	Energy weighting technique in Quantum Computed Tomography using a MPGD. <i>Journal of Instrumentation</i> , 2011 , 6, C02002-C02002	1	7
53	The performance of the GPSC/MSGC hybrid detector with argon-xenon gas mixtures. <i>IEEE Transactions on Nuclear Science</i> , 2002 , 49, 907-911	1.7	7

52	The micro-hole-and-strip plate gas detector: experimental results. <i>IEEE Transactions on Nuclear Science</i> , 2002 , 49, 875-880	1.7	7
51	Spectroscopic analysis of LYSO:Ce crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017 , 172, 163-167	4.4	6
50	A comparative study of microstrip plate geometries as UV photosensors with reflective photocathodes: simulation. <i>IEEE Transactions on Nuclear Science</i> , 2001 , 48, 411-416	1.7	6
49	. <i>IEEE Transactions on Nuclear Science</i> , 1993 , 40, 434-437	1.7	6
48	In-beam evaluation of a medium-size Resistive-Plate WELL gaseous particle detector. <i>Journal of Instrumentation</i> , 2016 , 11, P09013-P09013	1	6
47	Pionic hydrogen and friends. <i>Hyperfine Interactions</i> , 2015 , 234, 105-111	0.8	5
46	THCOBRA X-ray imaging detector operating in Ne/CH ₄ . <i>Journal of Instrumentation</i> , 2015 , 10, P01003-P01003	1	5
45	Line shape analysis of the K α transition in muonic hydrogen. <i>European Physical Journal D</i> , 2018 , 72, 1	1.3	5
44	Energy resolving CT systems using Medipix2 and MHSP detectors. <i>Journal of Instrumentation</i> , 2013 , 8, C03022-C03022	1	5
43	Position sensitive VUV gaseous photomultiplier based on Thick-multipliers with resistive line readout. <i>Journal of Instrumentation</i> , 2013 , 8, P09002-P09002	1	5
42	The Lamb shift in muonic hydrogen This paper was presented at the International Conference on Precision Physics of Simple Atomic Systems, held at Boile de Physique, les Houches, France, 30 May to 4 June, 2010.. <i>Canadian Journal of Physics</i> , 2011 , 89, 37-45	1.1	5
41	Residual gas analysers in an undergraduate vacuum laboratory: a simple experiment involving direct quantitative measurements. <i>European Journal of Physics</i> , 2004 , 25, 469-473	0.8	5
40	Application of large-area avalanche photodiodes to X-ray spectrometry of muonic atoms. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003 , 58, 2255-2260	3.1	5
39	Detection of VUV photons with large-area avalanche photodiodes. <i>Applied Physics B: Lasers and Optics</i> , 2005 , 81, 531-535	1.9	5
38	Gas proportional scintillation counters for the μ /p-Lamb shift experiment. <i>IEEE Transactions on Nuclear Science</i> , 2002 , 49, 899-906	1.7	5
37	The response of xenon X-ray detectors to full-energy absorption and fluorescence-escape events: measurement and modelling. <i>IEEE Transactions on Nuclear Science</i> , 1996 , 43, 1432-1441	1.7	5
36	High voltage insulation and gas absorption of polymers in high pressure argon and xenon gases. <i>Journal of Instrumentation</i> , 2018 , 13, P10002-P10002	1	5
35	Laser spectroscopy of muonic hydrogen. <i>Annalen Der Physik</i> , 2013 , 525, 647-651	2.6	4

34	Design and characterization of the SiPM tracking system of NEXT-DEMO, a demonstrator prototype of the NEXT-100 experiment. <i>Journal of Instrumentation</i> , 2013 , 8, T05002-T05002	1	4
33	A large area gas proportional scintillation counter for balloon borne solar X-ray spectrometry. <i>IEEE Transactions on Nuclear Science</i> , 2002 , 49, 2488-2491	1.7	4
32	The microhole and strip plate gas detector: Initial results. <i>Review of Scientific Instruments</i> , 2002 , 73, 488-490	4	4
31	THCOBRA X-ray imaging detector operating in pure Kr. <i>Journal of Instrumentation</i> , 2017 , 12, T05003-T05003	3	3
30	Pressure effects on the X-ray intrinsic position resolution in noble gases and mixtures. <i>Journal of Instrumentation</i> , 2016 , 11, P12008-P12008	1	3
29	Radio frequency and DC high voltage breakdown of high pressure helium, argon, and xenon. <i>Journal of Instrumentation</i> , 2020 , 15, P04022-P04022	1	3
28	Dependence of the performance of CsI-covered microstrip plate VUV photosensors on geometry: experimental results. <i>IEEE Transactions on Nuclear Science</i> , 2002 , 49, 1629-1633	1.7	3
27	A simple method to improve the spatial uniformity of venetian-blind photomultiplier tubes. <i>IEEE Transactions on Nuclear Science</i> , 1996 , 43, 1335-1340	1.7	3
26	Energy dispersive X-ray fluorescence quantitative analysis of biological samples with the external standard method. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020 , 174, 105991	3.1	3
25	Multi-slice quantum Computed Tomography system using a MHSP. <i>Journal of Instrumentation</i> , 2012 , 7, C01106-C01106	1	2
24	GEM Operation in High-Pressure CF_4 : Studies of Charge and Scintillation Properties. <i>IEEE Transactions on Nuclear Science</i> , 2009 , 56, 1564-1567	1.7	2
23	Pionic deuterium. <i>Hyperfine Interactions</i> , 2009 , 193, 47-52	0.8	2
22	Secondary scintillation readout from GEM and THGEM with a large area avalanche photodiode. <i>Journal of Instrumentation</i> , 2012 , 7, P06012-P06012	1	2
21	The Photon-Assisted Cascaded Electron Multiplier Operation in CF_4 for Ion Backflow Suppression. <i>IEEE Transactions on Nuclear Science</i> , 2008 , 55, 1652-1656	1.7	2
20	Chapter 11 Experiments on Highly Charged Heavy Ions in Conjunction with Exotic Atoms. <i>Advances in Quantum Chemistry</i> , 2008 , 53, 217-235	1.4	2
19	On the double peak structure of avalanche photodiode response to monoenergetic x-rays at various temperatures and bias voltages. <i>Journal of Instrumentation</i> , 2018 , 13, C01033-C01033	1	1
18	Zero Ion Backflow electron multiplier operating in noble gases. <i>Journal of Instrumentation</i> , 2014 , 9, P02004-P02004		
17	Characterization of a small CsI(Na)-WSF-SiPM gamma camera prototype using ^{99m}Tc . <i>Journal of Instrumentation</i> , 2013 , 8, C03008-C03008	1	1

16	Cryogenic Gaseous Photomultiplier for position reconstruction of liquid argon scintillation light. <i>Journal of Instrumentation</i> , 2015 , 10, P07017-P07017	1	1
15	Simultaneous readout of charge and scintillation pulses from electron avalanches for improving the response of micropattern gaseous detectors. <i>Journal of Instrumentation</i> , 2014 , 9, C08005-C08005	1	1
14	Precision measurement of the (3p π s) X-ray transition in muonic hydrogen. <i>Physics of Particles and Nuclei</i> , 2014 , 45, 181-183	0.7	1
13	The size of the proton. <i>Hyperfine Interactions</i> , 2012 , 212, 185-194	0.8	1
12	The 2D-Micro Hole & Strip Plate in CF ₄ atmosphere aiming neutron imaging. <i>Journal of Instrumentation</i> , 2009 , 4, P12010-P12010	1	1
11	Line shape of the $\Xi(3p - 1s)$ transition. <i>Hyperfine Interactions</i> , 2009 , 193, 61-67	0.8	1
10	2D-sensitive hpxe gas proportional scintillation counter concept for nuclear medical imaging purposes. <i>Journal of Instrumentation</i> , 2011 , 6, C01067-C01067	1	1
9	Small prototype gamma camera based on wavelength-shifting fibres. <i>Journal of Instrumentation</i> , 2012 , 7, C01043-C01043	1	1
8	Simulation of VUV electroluminescence in micropattern gaseous detectors: the case of GEM and MHSP. <i>Journal of Instrumentation</i> , 2012 , 7, P09006-P09006	1	1
7	High Pressure Operation of the Photon-Assisted Cascaded Electron Multiplier. <i>IEEE Transactions on Nuclear Science</i> , 2009 , 56, 1097-1101	1.7	1
6	Single photon counting x-ray imaging system using a micro hole and strip plate 2007 ,		1
5	MPGD-based photon detectors for the upgrade of COMPASS RICH-1 and beyond. <i>Journal of Instrumentation</i> , 2020 , 15, C09063-C09063	1	1
4	Dependence of polytetrafluoroethylene reflectance on thickness at visible and ultraviolet wavelengths in air. <i>Journal of Instrumentation</i> , 2020 , 15, P11031-P11031	1	1
3	Monitoring the effect of gas purification of sealed MPGDs for X-ray imaging. <i>Journal of Instrumentation</i> , 2019 , 14, T11010-T11010	1	1
2	Single Low Dose of Cocaine-Structural Brain Injury Without Metabolic and Behavioral Changes. <i>Frontiers in Neuroscience</i> , 2020 , 14, 589897	5.1	0
1	Development of a New Integrated System for Vital Sign Monitoring in Small Animals. <i>Sensors</i> , 2022 , 22, 4264	3.8	