

Vicente González Millán

List of Publications by Year in descending order

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79
papers

2,942
citations

430874

18
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206112

48
g-index

80
all docs

80
docs citations

80
times ranked

4975
citing authors

#	ARTICLE	IF	CITATIONS
1	The ATLAS Experiment at the CERN Large Hadron Collider. Journal of Instrumentation, 2008, 3, S08003-S08003.	1.2	1,752
2	AGATAâ€”Advanced GAMMA Tracking Array. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 668, 26-58.	1.6	378
3	Testbeam studies of production modules of the ATLAS Tile Calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 606, 362-394.	1.6	91
4	Conceptual design of the AGATA<math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0005.gif" overflow="scroll"><mml:mrow><mml:mn>1</mml:mn><mml:mi>ï€</mml:mi></mml:mrow></mml:math> array at GANIL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 855, 1-12.	1.6	64
5	Digital pulse-shape analysis with a TRACE early silicon prototype. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 764, 241-246.	1.6	40
6	Hadron energy reconstruction for the ATLAS calorimetry in the framework of the non-parametrical method ATLAS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 480, 508-523.	1.6	36
7	Measurement of pion and proton response and longitudinal shower profiles up to 20 nuclear interaction lengths with the ATLAS Tile calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 615, 158-181.	1.6	35
8	Study of energy response and resolution of the ATLAS barrel calorimeter to hadrons of energies from 20 to 350 GeV. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 621, 134-150.	1.6	34
9	NEDAâ€”NNeutron Detector Array. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 927, 81-86.	1.6	34
10	<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Kr</mml:mi></mml:mrow><mml: /><mml:mrow><mml:mn>36</mml:mn></mml:mrow><mml:mrow><mml:mn>96</mml:mn></mml:mrow></mml:mmultiscripts></mml: /></mml:math>â€”Low- <math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Z</mml:mi></mml:math> Boundary of the Island of Deformat. Physical Review Letters, 2017, 118, 162501.	7.8	31
11	Monte Carlo simulation of a single detector unit for the neutron detector array NEDA. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 673, 64-72.	1.6	30
12	Pulse pile-up identification and reconstruction for liquid scintillator based neutron detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 897, 59-65.	1.6	24
13	Test of digital neutron"gamma discrimination with four different photomultiplier tubes for the NNeutron Detector Array (NEDA). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 767, 83-91.	1.6	23
14	Conceptual design of the early implementation of the NNeutron Detector Array (NEDA) with AGATA. European Physical Journal A, 2016, 52, 1.	2.5	23
15	Results from a new combined test of an electromagnetic liquid argon calorimeter with a hadronic scintillating-tile calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 449, 461-477.	1.6	21
16	Pseudospin Symmetry and Microscopic Origin of Shape Coexistence in the <math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Ni</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>78</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> Region: A Hint from Lifetime Measurements. Physical Review Letters, 2018, 121, 192502.	7.8	20
17	ATLAS TileCal Read Out Driver production. Journal of Instrumentation, 2007, 2, P05003-P05003.	1.2	19
18	Digital pulse-timing technique for the neutron detector array NEDA. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 775, 71-76.	1.6	19

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19	Lifetime measurement of neutron-rich even-even molybdenum isotopes. Physical Review C, 2017, 95, .	2.9	17
20	Hadronic shower development in Iron-Scintillator Tile Calorimetry. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 443, 51-70.	1.6	15
21	Neutron detection and γ -ray suppression using artificial neural networks with the liquid scintillators BC-501A and BC-537. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 916, 238-245.	1.6	15
22	Lifetime measurements in $Ti_{52,54}$ to study shell evolution toward $N=32$. Physical Review C, 2019, 100, .	2.9	14
23	Performance of the Fully Digital FPGA-Based Front-End Electronics for the GALILEO Array. IEEE Transactions on Nuclear Science, 2015, 62, 3134-3139.	2.0	13
24	Conceptual design of the TRACE detector readout using a compact, dead time-less analog memory ASIC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 800, 34-39.	1.6	13
25	Effects of one valence proton on seniority and angular momentum of neutrons in neutron-rich Sb_{122} isotopes. Physical Review C, 2019, 99, .	2.9	13
26	Design of an integrated low-noise, low-power charge sensitive preamplifier for 3He and particle spectroscopy with solid state detectors. , 2014, , .		12
27	Isospin dependence of electromagnetic transition strengths among an isobaric triplet. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134835.	4.1	10
28	A New Front-End High-Resolution Sampling Board for the New-Generation Electronics of EXOGAM2 and NEDA Detectors. IEEE Transactions on Nuclear Science, 2015, 62, 1056-1062.	2.0	9
29	Measurement of lifetimes in Fe_{62} and Fe_{64} isotopes. Physical Review C, 2019, 99, .	2.9	9
30	Development of the Optical Multiplexer Board Prototype for Data Acquisition in the TileCal System. IEEE Transactions on Nuclear Science, 2006, 53, 2131-2138.	2.0	8
31	Design and Test of a High-Speed Flash ADC Mezzanine Card for High-Resolution and Timing Performance in Nuclear Structure Experiments. IEEE Transactions on Nuclear Science, 2013, 60, 3526-3531.	2.0	8
32	The ATLAS hadronic tile calorimeter: from construction toward physics. IEEE Transactions on Nuclear Science, 2006, 53, 1275-1281.	2.0	7
33	ATLAS TileCal Read-Out Driver System Production and Initial Performance Results. IEEE Transactions on Nuclear Science, 2007, 54, 2629-2636.	2.0	7
34	Multiple Register Synchronization With a High-Speed Serial Link Using the Aurora Protocol. IEEE Transactions on Nuclear Science, 2013, 60, 3521-3525.	2.0	7
35	A VLSI for deskewing and fault tolerance in LVDS links. IEEE Transactions on Nuclear Science, 2006, 53, 801-809.	2.0	6
36	Digital Front-End Electronics for the Neutron Detector NEDA. IEEE Transactions on Nuclear Science, 2015, 62, 1063-1069.	2.0	6

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37	Role of the \hat{I}^{π} Resonance in the Population of a Four-Nucleon State in the $Fe^{56}\hat{+}Fe^{54}$ Reaction at Relativistic Energies. <i>Physical Review Letters</i> , 2016, 117, 222302.	7.8	6
38	A measurement of the photonuclear interactions of 180 GeV muons in iron. <i>European Physical Journal C</i> , 2003, 28, 297-304.	3.9	5
39	Algorithms for the ROD DSP of the ATLAS Hadronic Tile Calorimeter. <i>Journal of Instrumentation</i> , 2007, 2, T02001-T02001.	1.2	5
40	Optical Link Card Design for the Phase II Upgrade of TileCal Experiment. <i>IEEE Transactions on Nuclear Science</i> , 2011, 58, 1657-1663.	2.0	5
41	Development of the control card for the digitizers of the second generation electronics of AGATA. , 2012, , .		5
42	Study of isomeric states in $^{198,200,202,206}Pb$ and ^{206}Hg populated in fragmentation reactions. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2018, 45, 035105.	3.6	5
43	The optical instrumentation of the ATLAS Tile Calorimeter. <i>Journal of Instrumentation</i> , 2013, 8, P01005-P01005.	1.2	4
44	Comparison of parallel versus hierarchical systems for data processing in distributed sensor networks. <i>IEEE Transactions on Nuclear Science</i> , 2002, 49, 394-400.	2.0	3
45	DSP Online Algorithms for the ATLAS TileCal Read-Out Drivers. , 2007, , .		3
46	Evaluation of a commercial APD array (Avalanche PhotoDiode) for a readout detector in a hadrontherapy beam characterization application. , 2010, , .		3
47	Design and test of a high-speed flash ADC mezzanine card for high-resolution and timing performance in nuclear structure experiments. , 2012, , .		3
48	Mechanical construction and installation of the ATLAS tile calorimeter. <i>Journal of Instrumentation</i> , 2013, 8, T11001-T11001.	1.2	3
49	The New Neutron Multiplicity Filter NEDA and Its First Physics Campaign with AGATA. <i>Acta Physica Polonica B</i> , 2019, 50, 585.	0.8	3
50	SCI evaluation in multinode environments for computing and data-processing applications. <i>IEEE Transactions on Nuclear Science</i> , 2001, 48, 1306-1312.	2.0	2
51	Data Acquisition in TileCal/ATLAS Experiment. Design of the Optical Multiplexer Board Prototype. , 0, , .		2
52	Production and Commissioning Performance Tests of the Read-Out Driver Boards for the Hadronic Tile Calorimeter of the ATLAS Detector at LHC. , 0, , .		2
53	Real time data processing of the TileCal calorimeter of the ATLAS detector. , 2005, , .		2
54	DSP Online Algorithms for The ATLAS TileCal Read-Out Drivers. <i>IEEE Transactions on Nuclear Science</i> , 2008, 55, 158-164.	2.0	2

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55	Functional super Read-Out Driver demonstrator for the Phase II Upgrade of the ATLAS Tile Calorimeter. , 2011, , .		2
56	A capacitor selector tool for on-board PDN designs in multigigabit applications. , 2011, , .		2
57	Maximum Likelihood Estimation and Non-Linear Least Squares Fitting Implementation in FPGA Devices for High Resolution Hodoscopy. IEEE Transactions on Nuclear Science, 2013, 60, 3578-3584.	2.0	2
58	Development of the optical multiplexer board prototype for data acquisition in TileCal experiment. , 2005, , .		1
59	The Optical Multiplexer Board for the ATLAS Hadronic Tile Calorimeter. , 2007, , .		1
60	Signal integrity studies at optical multiplexer board for tilecal system. Journal of Instrumentation, 2007, 2, T07002-T07002.	1.2	1
61	The sROD demonstrator for the ATLAS Tile Calorimeter Upgrade. , 2012, , .		1
62	Graphical user interface for serial protocols through a USB link. , 2012, , .		1
63	Maximum Likelihood Estimation and non-linear least squares fitting with Levenberg-Marquardt Algorithm implementation in FPGA devices for high resolution hodscopy. , 2012, , .		1
64	Study and simulation of the read-out electronics design for a high-resolution plastic scintillating fiber based hodoscope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 784, 232-235.	1.6	1
65	A new preprocessing and control board for the phase 2 electronics of AGATA experiment. , 2016, , .		1
66	Design of a mezzanine card with bandwidth aggregation for HPGe gamma spectroscopy. , 2016, , .		1
67	Data monitoring in high-performance clusters for computing applications. IEEE Transactions on Nuclear Science, 2002, 49, 525-531.	2.0	0
68	A VLSI for deskewing and fault tolerance in LVDS links. , 2005, , .		0
69	Installation and commissioning of the TileCal Read-Out Drivers. , 2007, , .		0
70	TileCal Optical Multiplexer Board 9U prototype. , 2007, , .		0
71	Development of an optical link card for the upgrade phase II of TileCal experiment. , 2010, , .		0
72	The ATLAS tile calorimeter ROD injector and multiplexer board. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 629, 74-79.	1.6	0

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73	Optimal filtering algorithm implementation in FPGAs for the ATLAS TileCal Read-Out drivers. , 2011, , .		0
74	Simulation study and validation of the read-out electronics design for a high-resolution Plastic Scintillating Fiber based hodoscope for beam positioning. , 2012, , .		0
75	A digital front-end electronics for the neutron detector NEDA. , 2014, , .		0
76	Fully digital FPGA-based Front-End Electronics for the GALILEO array. , 2014, , .		0
77	A new front-end high-resolution sampling board for the new-generation electronics of EXOGAM2 and NEDA detectors. , 2014, , .		0
78	Based on Compton Camera. , 2016, , .		0
79	Phantom development for daily checks in electron intraoperative radiotherapy with a mobile linac. Physica Medica, 2020, 76, 109-116.	0.7	0