

Luis A Nunez

List of Publications by Year in descending order

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91
papers

2,714
citations

331259

21
h-index

182168

51
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98
all docs

98
docs citations

98
times ranked

2372
citing authors

#	ARTICLE	IF	CITATIONS
1	Testing effects of Lorentz invariance violation in the propagation of astroparticles with the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 023.	1.9	5
2	Acceptability conditions and relativistic anisotropic generalized polytropes. <i>European Physical Journal C</i> , 2022, 82, 1.	1.4	9
3	A Search for Photons with Energies Above 2×10^{17} eV Using Hybrid Data from the Low-Energy Extensions of the Pierre Auger Observatory. <i>Astrophysical Journal</i> , 2022, 933, 125.	1.6	21
4	All analytic solutions for geodesic motion in axially symmetric space-times. <i>European Physical Journal C</i> , 2022, 82, .	1.4	3
5	Design, upgrade and characterization of the silicon photomultiplier front-end for the AMIGA detector at the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2021, 16, P01026-P01026.	0.5	13
6	Acceptability conditions and relativistic barotropic equations of state. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	11
7	Calibration of the underground muon detector of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2021, 16, P04003.	0.5	5
8	Measurement of the Fluctuations in the Number of Muons in Extensive Air Showers with the Pierre Auger Observatory. <i>Physical Review Letters</i> , 2021, 126, 152002.	2.9	34
9	The FRAM robotic telescope for atmospheric monitoring at the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2021, 16, P06027.	0.5	2
10	Deep-learning based reconstruction of the shower maximum X_{max} using the water-Cherenkov detectors of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2021, 16, P07019.	0.5	16
11	Extraction of the muon signals recorded with the surface detector of the Pierre Auger Observatory using recurrent neural networks. <i>Journal of Instrumentation</i> , 2021, 16, P07016.	0.5	11
12	Design and implementation of the AMIGA embedded system for data acquisition. <i>Journal of Instrumentation</i> , 2021, 16, T07008.	0.5	3
13	Simulated Annealing for volcano muography. <i>Journal of South American Earth Sciences</i> , 2021, 109, 103248.	0.6	8
14	Modeling and Simulation of the R5912 Photomultiplier for the LAGO Project. <i>IEEE Sensors Journal</i> , 2021, 21, 20184-20191.	2.4	1
15	The energy spectrum of cosmic rays beyond the turn-down around 10^{17} eV as measured with the surface detector of the Pierre Auger Observatory. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	44
16	Simulated response of MuTe, a hybrid Muon Telescope. <i>Journal of Instrumentation</i> , 2020, 15, P08004-P08004.	0.5	10
17	Features of the Energy Spectrum of Cosmic Rays above 2.5×10^{18} eV Using the Pierre Auger Observatory. <i>Physical Review Letters</i> , 2020, 125, 121106.	2.9	79
18	Studies on the response of a water-Cherenkov detector of the Pierre Auger Observatory to atmospheric muons using an RPC hodoscope. <i>Journal of Instrumentation</i> , 2020, 15, P09002-P09002.	0.5	5

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19	Direct measurement of the muonic content of extensive air showers between 2×10^{17} and 2×10^{18} eV at the Pierre Auger Observatory. European Physical Journal C, 2020, 80, 1.	1.4	36
20	Reconstruction of events recorded with the surface detector of the Pierre Auger Observatory. Journal of Instrumentation, 2020, 15, P10021-P10021.	0.5	20
21	Search for magnetically-induced signatures in the arrival directions of ultra-high-energy cosmic rays measured at the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 017-017.	1.9	10
22	A 3-Year Sample of Almost 1,600 Elves Recorded Above South America by the Pierre Auger Cosmic-Ray Observatory. Earth and Space Science, 2020, 7, e2019EA000582.	1.1	9
23	Karmarkar scalar condition. European Physical Journal C, 2020, 80, 1.	1.4	41
24	Cosmic-Ray Anisotropies in Right Ascension Measured by the Pierre Auger Observatory. Astrophysical Journal, 2020, 891, 142.	1.6	39
25	Design and construction of MuTe: a hybrid Muon Telescope to study Colombian volcanoes. Journal of Instrumentation, 2020, 15, P09006-P09006.	0.5	12
26	A Search for Ultra-high-energy Neutrinos from TXS 0506+056 Using the Pierre Auger Observatory. Astrophysical Journal, 2020, 902, 105.	1.6	13
27	Probing the origin of ultra-high-energy cosmic rays with neutrinos in the EeV energy range using the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 022-022.	1.9	64
28	Limits on point-like sources of ultra-high-energy neutrinos with the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 004-004.	1.9	18
29	Measurement of the average shape of longitudinal profiles of cosmic-ray air showers at the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 018-018.	1.9	10
30	Photoprotective and Antigenotoxic Effects of the Flavonoids Apigenin, Naringenin and Pinocembrin. Photochemistry and Photobiology, 2019, 95, 1010-1018.	1.3	23
31	Calibration and first measurements of MuTe: a hybrid Muon Telescope for geological structures. , 2019, , .		0
32	An Indication of Anisotropy in Arrival Directions of Ultra-high-energy Cosmic Rays through Comparison to the Flux Pattern of Extragalactic Gamma-Ray Sources [*] . Astrophysical Journal Letters, 2018, 853, L29.	3.0	165
33	On the Vortex Waves in Nonadiabatic Flows. Astrophysical Journal, 2018, 855, 19.	1.6	3
34	Convection and cracking stability of spheres in general relativity. European Physical Journal C, 2018, 78, 1.	1.4	17
35	Exposici3n Temprana de Nativos Digitales en Ambientes, Metodolog3as y T3cnicas de Investigaci3n en la Universidad. Revista Brasileira De Ensino De Fisica, 2018, 40, .	0.2	1
36	Large-scale Cosmic-Ray Anisotropies above 4 EeV Measured by the Pierre Auger Observatory. Astrophysical Journal, 2018, 868, 4.	1.6	77

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37	Are there any models with homogeneous energy density?. <i>General Relativity and Gravitation</i> , 2018, 50, 1.	0.7	3
38	Observation of inclined EeV air showers with the radio detector of the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 026-026.	1.9	30
39	Preliminary Results From the Latin American Giant Observatory Space Weather Simulation Chain. <i>Space Weather</i> , 2018, 16, 461-475.	1.3	18
40	Impact of atmospheric effects on the energy reconstruction of air showers observed by the surface detectors of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2017, 12, P02006-P02006.	0.5	8
41	Combined fit of spectrum and composition data as measured by the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 038-038.	1.9	191
42	Calibration of a large water-Cherenkov detector at the Sierra Negra site of LAGO. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 861, 28-37.	0.7	7
43	Cracking isotropic and anisotropic relativistic spheres. <i>Canadian Journal of Physics</i> , 2017, 95, 1089-1095.	0.4	9
44	Multi-resolution anisotropy studies of ultrahigh-energy cosmic rays detected at the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 026-026.	1.9	14
45	Search for photons with energies above 10^{18} eV using the hybrid detector of the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 009-009.	1.9	49
46	A Targeted Search for Point Sources of EeV Photons with the Pierre Auger Observatory. <i>Astrophysical Journal Letters</i> , 2017, 837, L25.	3.0	21
47	Spectral calibration of the fluorescence telescopes of the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2017, 95, 44-56.	1.9	7
48	Observation of a large-scale anisotropy in the arrival directions of cosmic rays above 8×10^{18} eV. <i>Science</i> , 2017, 357, 1266-1270.	6.0	261
49	An equivalent system of Einstein Equations. <i>Journal of Physics: Conference Series</i> , 2017, 831, 012011.	0.3	4
50	Calibration of the logarithmic-periodic dipole antenna (LPDA) radio stations at the Pierre Auger Observatory using an octocopter. <i>Journal of Instrumentation</i> , 2017, 12, T10005-T10005.	0.5	21
51	A preface to the 70&70 Gravity Fest. <i>Journal of Physics: Conference Series</i> , 2017, 831, 011001.	0.3	0
52	The Latin American Giant Observatory: A Successful Collaboration in Latin America Based on Cosmic Rays and Computer Science Domains. , 2016, , .		2
53	Measurement of the Radiation Energy in the Radio Signal of Extensive Air Showers as a Universal Estimator of Cosmic-Ray Energy. <i>Physical Review Letters</i> , 2016, 116, 241101.	2.9	91
54	Testing Hadronic Interactions at Ultrahigh Energies with Air Showers Measured by the Pierre Auger Observatory. <i>Physical Review Letters</i> , 2016, 117, 192001.	2.9	154

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55	The data acquisition system of the Latin American Giant Observatory (LAGO). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 820, 34-39.	0.7	9
56	The LAGO Space Weather Program: Directional Geomagnetic Effects, Background Fluence Calculations and Multi-Spectral Data Anal. , 2016, , .		8
57	Analysis of Background Cosmic Ray Rate in the 2010-2012 Period from the LAGO-Chacaltaya Detectors. , 2016, , .		1
58	Data Accessibility, Reproducibility and Trustworthiness with LAGO Data Repositories. , 2016, , .		3
59	Quasi-static thermal evolution of compact objects. Canadian Journal of Physics, 2015, 93, 920-934.	0.4	1
60	Astroparticle physics at the Eastern Colombia region. AIP Conference Proceedings, 2015, , .	0.3	0
61	Cracking of Anisotropic Spheres in General Relativity Revisited. Journal of Physics: Conference Series, 2015, 600, 012014.	0.3	26
62	A Resilient Methodology for Accessing and Exploiting Data and Scientific Codes on Distributed Environments. , 2015, , .		3
63	Cosmic Rays Induced Background Radiation on Board of Commercial Flights. Nuclear and Particle Physics Proceedings, 2015, 267-269, 418-420.	0.2	1
64	Implementing the De-thinning Method for High Energy Cosmic Rays Extensive Air Showers Simulations. Nuclear and Particle Physics Proceedings, 2015, 267-269, 421-423.	0.2	3
65	Geant4 based simulation of the Water Cherenkov Detectors of the LAGO Project. Nuclear and Particle Physics Proceedings, 2015, 267-269, 424-426.	0.2	6
66	An identity-based encryption model for logs harvesting using one time password. , 2013, , .		0
67	Plausible families of compact objects with a nonlocal equation of state. Canadian Journal of Physics, 2013, 91, 328-336.	0.4	9
68	Validaci3n del linaje de los datos de la colaboraci3n LAGO. Instalaciones Sierra Negra y Chacaltaya. ITECKNE Innovaci3n E Investigaci3n En IngenierAa, 2013, 10, .	0.0	1
69	VAMDCâ€”The Virtual Atomic and Molecular Data Centreâ€”A New Way to Disseminate Atomic and Molecular Dataâ€”VAMDC Level 1 Release. AIP Conference Proceedings, 2011, , .	0.3	24
70	Virtual atomic and molecular data centre. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 2151-2159.	1.1	164
71	Sound speeds, cracking and the stability of self-gravitating anisotropic compact objects. Classical and Quantum Gravity, 2007, 24, 4631-4645.	1.5	508
72	Cracking of Self-Gravitating Compact Objects with Local and Non Local Equations of State. Journal of Physics: Conference Series, 2007, 66, 012038.	0.3	10

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73	General Relativistic Radiant Shock Waves in the Post-Quasistatic Approximation. Journal of Physics: Conference Series, 2007, 66, 012042.	0.3	0
74	Hydrodynamics in type B warped spacetimes. Physical Review D, 2005, 72, .	1.6	5
75	Nonlocal equation of state in anisotropic static fluid spheres in general relativity. Canadian Journal of Physics, 2004, 82, 29-51.	0.4	65
76	Ricci Collineations for Non-degenerate, Diagonal and Spherically Symmetric Ricci Tensors. General Relativity and Gravitation, 2000, 32, 285-294.	0.7	13
77	Non-local equation of state in general relativistic radiating spheres. Classical and Quantum Gravity, 1999, 16, 871-896.	1.5	38
78	On the eccentricity behaviour of radiating slowly rotating bodies in general relativity. Classical and Quantum Gravity, 1998, 15, 187-196.	1.5	1
79	Ricci Collineations for Type B Warped Space-times. General Relativity and Gravitation, 1997, 29, 1223-1237.	0.7	17
80	Comment on Ricci collineations of static spherically symmetric spacetimes [J. Math. Phys. 35, 3005â€“3012 (1994)]. Journal of Mathematical Physics, 1996, 37, 1086.	0.5	8
81	Luminosity profiles and the contraction of radiating spheres in general relativity. Astrophysics and Space Science, 1995, 225, 167-181.	0.5	3
82	The oscillations of relativistic radiating spheres. Astronomical and Astrophysical Transactions, 1995, 6, 187-196.	0.2	1
83	Radiation flow and viscous stresses in anisotropic gravitational collapse. Monthly Notices of the Royal Astronomical Society, 1994, 271, 463-475.	1.6	21
84	Luminosity profiles and contraction of radiating spheres. General Relativity and Gravitation, 1994, 26, 537-553.	0.7	4
85	Radiation hydrodynamics and Radiating Spheres in General Relativity. Astrophysics and Space Science, 1994, 219, 153-170.	0.5	4
86	<i>Reply to comment</i> : Note on an example of a general class of symmetries of Lagrangians and their equations of motion. Canadian Journal of Physics, 1994, 72, 87-88.	0.4	2
87	Radiating, slowly rotating bodies in general relativity. Astrophysical Journal, 1994, 421, 677.	1.6	8
88	Supernovae: Where and why do they break off?. Astrophysics and Space Science, 1992, 188, 9-18.	0.5	0
89	Checking collineation vectors with reduce. General Relativity and Gravitation, 1992, 24, 1125-1129.	0.7	3
90	Radiating spheres in general relativity with a mixed transport energy flow. Astrophysics and Space Science, 1991, 178, 261-275.	0.5	8

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91	Luminosity profiles and the evolution of shock waves in general-relativistic radiating spheres. <i>Astrophysical Journal</i> , 1990, 364, 212.	1.6	5