Luis A Anchordoqui

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102 papers	2,632 citations	31 h-index	47 g-index
111 ext. papers	3,236 ext. citations	5 avg, IF	5.54 L-index

#	Paper	IF	Citations
102	Black holes from cosmic rays: Probes of extra dimensions and new limits on TeV-scale gravity. *Physical Review D*, **2002**, 65,	4.9	152
101	Cosmic neutrino pevatrons: A brand new pathway to astronomy, astrophysics, and particle physics. *Journal of High Energy Astrophysics*, **2014**, 1-2, 1-30	2.5	111
100	Dijet signals for low mass strings at the Large Hadron Collider. *Physical Review Letters*, **2008**, 101, 241803	7.4	88
99	Astrophysical origins of ultrahigh energy cosmic rays. *Reports on Progress in Physics*, **2004**, 67, 1663-1730	14.4	87
98	ULTRAHIGH ENERGY COSMIC RAYS: THE STATE OF THE ART BEFORE THE AUGER OBSERVATORY. *International Journal of Modern Physics A*, **2003**, 18, 2229-2366	1.2	86
97	Galactic point sources of TeV antineutrinos. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2004**, 593, 42-47	4.2	85
96	Neutrinos as a diagnostic of high energy astrophysical processes. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2005**, 621, 18-21	4.2	72
95	Neutrino bounds on astrophysical sources and new physics. *Physical Review D*, **2002**, 66,	4.9	70
94	Snowmass2021 - Letter of interest cosmology intertwined II: The hubble constant tension. *Astroparticle Physics*, **2021**, 131, 102605	2.4	65
93	Neutrinos as a diagnostic of cosmic ray galactic-extragalactic transition. *Physical Review D*, **2005**, 72,	4.9	60
92	Predictions for the cosmogenic neutrino flux in light of new data from the Pierre Auger Observatory. *Physical Review D*, **2007**, 76,	4.9	58
91	Origin of the ankle in the ultrahigh energy cosmic ray spectrum, and of the extragalactic protons below it. *Physical Review D*, **2015**, 92,	4.9	57
90	High energy neutrinos from astrophysical accelerators of cosmic ray nuclei. *Astroparticle Physics*, **2008**, 29, 1-13	2.4	56
89	Updated limits on TeV-scale gravity from the absence of neutrino cosmic ray showers mediated by black holes. *Physical Review D*, **2003**, 68,	4.9	56
88	What IceCube data tell us about neutrino emission from star-forming galaxies (so far). *Physical Review D*, **2014**, 89,	4.9	52
87	Pinning down the cosmic ray source mechanism with new IceCube data. *Physical Review D*, **2014**, 89,	4.9	52
86	Ultra-high-energy cosmic rays. *Physics Reports*, **2019**, 801, 1-93	27.7	51

85	Cosmology intertwined III: f8 and S8. *Astroparticle Physics*, **2021**, 131, 102604	2.4	51
84	Centaurus A as a source of extragalactic cosmic rays with arrival energies well beyond the GZK cutoff. *Astroparticle Physics*, **1996**, 5, 279-283	2.4	48
83	Right-handed neutrinos as the dark radiation: Status and forecasts for the LHC. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2013**, 718, 1162-1165	4.2	46
82	Jet signals for low mass strings at the large hadron collider. *Physical Review Letters*, **2008**, 100, 171603	7.4	45
81	Neutrino diagnostics of ultrahigh energy cosmic ray protons. *Physical Review D*, **2009**, 79,	4.9	44
80	TeV rays and neutrinos from photodisintegration of nuclei in Cygnus OB2. *Physical Review D*, **2007**, 75,	4.9	42
79	IceCube neutrinos, decaying dark matter, and the Hubble constant. *Physical Review D*, **2015**, 92,	4.9	39
78	In Search of Extraterrestrial High-Energy Neutrinos. *Annual Review of Nuclear and Particle Science*, **2010**, 60, 129-162	15.7	36
77	Upgoing ANITA events as evidence of the CPT symmetric universe **2018**, 1, 13-16		36
76	High energy physics in the atmosphere: phenomenology of cosmic ray air showers. *Annals of Physics*, **2004**, 314, 145-207	2.5	34
75	Auger test of the Cen A model of highest energy cosmic rays. *Physical Review Letters*, **2001**, 87, 081101	7.4	34
74	Direct photons as probes of low mass strings at the CERN LHC. *Physical Review D*, **2008**, 78,	4.9	33
73	Probing low-x QCD with cosmic neutrinos at the Pierre Auger Observatory. *Physical Review D*, **2006**, 74,	4.9	33
72	Testing the correlation of ultrahigh energy cosmic rays with high redshift sources. *Physical Review D*, **2001**, 63,	4.9	32
71	Sensitivity of a proposed space-based Cherenkov astrophysical-neutrino telescope. *Physical Review D*, **2017**, 95,	4.9	30
70	Exotic neutrino interactions at the Pierre Auger Observatory. *Astroparticle Physics*, **2006**, 25, 14-32	2.4	30
69	Probing split supersymmetry with cosmic rays. *Physical Review D*, **2005**, 71,	4.9	30
68	IceHEP high energy physics at the South Pole. *Annals of Physics*, **2006**, 321, 2660-2716	2.5	29

67	TeV gamma rays from photodisintegration and daughter deexcitation of cosmic-ray nuclei. *Physical Review Letters*, **2007**, 98, 121101	7.4	29
66	STRING PHENOMENOLOGY AT THE LHC. *Modern Physics Letters A*, **2009**, 24, 2481-2490	1.3	27
65	Vacuum stability of Standard Model++. *Journal of High Energy Physics*, **2013**, 2013, 1	5.4	26
64	Probing leptoquark production at IceCube. *Physical Review D*, **2006**, 74,	4.9	26
63	VANISHING DIMENSIONS AND PLANAR EVENTS AT THE LHC. *Modern Physics Letters A*, **2012**, 27, 1250021	1.3	25
62	Z?-gauge bosons as harbingers of low-mass strings. *Physical Review D*, **2012**, 85,	4.9	24
61	Estimating the contribution of Galactic sources to the diffuse neutrino flux. *Physical Review D*, **2014** , 90,	4.9	23
60	Searching for the layered structure of space at the LHC. *Physical Review D*, **2011**, 83,	4.9	23
59	Supersymmetric sphaleron configurations as the origin of the perplexing ANITA events. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2019**, 790, 578-582	4.2	22
58	Evidence for a break in the spectrum of astrophysical neutrinos. *Physical Review D*, **2017**, 95,	4.9	19
57	H0 tension and the string swampland. *Physical Review D*, **2020**, 101,	4.9	18
56	LHC phenomenology and cosmology of string-inspired intersecting D-brane models. *Physical Review D*, **2012**, 86,	4.9	18
55	Brane worlds, string cosmology, and AdS/CFT. *Physical Review D*, **2001**, 64,	4.9	18
54	Neutron □decay as the origin of IceCube□ PeV (anti)neutrinos. *Physical Review D*, **2015**, 91,	4.9	17
53	Cosmology Intertwined: A Review of the Particle Physics, Astrophysics, and Cosmology Associated with the Cosmological Tensions and Anomalies. *Journal of High Energy Astrophysics*, **2022**, 34, 49-49	2.5	17
52	Snowmass2021 - Letter of interest cosmology intertwined IV: The age of the universe and its curvature. *Astroparticle Physics*, **2021**, 131, 102607	2.4	16
51	Update on tests of the Cen A neutron-emission model of highest energy cosmic rays. *Physical Review D*, **2011**, 84,	4.9	15
50	Neutrino flux from cosmic ray accelerators in the Cygnus spiral arm of the Galaxy. *Physical Review D* , **2007**, 76,	4.9	15

49	Performance and science reach of the Probe of Extreme Multimessenger Astrophysics for ultrahigh-energy particles. *Physical Review D*, **2020**, 101,	4.9	14
48	Strange fireball as an explanation of the muon excess in Auger data. *Physical Review D*, **2017**, 95,	4.9	14
47	Footprints of super-GZK cosmic rays in the Pilliga State Forest. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2004**, 583, 213-221	4.2	14
46	Full-sky search for ultrahigh energy cosmic ray anisotropies. *Physical Review D*, **2003**, 68,	4.9	14
45	Hunting for superheavy dark matter with the highest-energy cosmic rays. *Physical Review D*, **2019**, 99,	4.9	13
44	String resonances at hadron colliders. *Physical Review D*, **2014**, 90,	4.9	13
43	Snowmass2021 - Letter of interest cosmology intertwined I: Perspectives for the next decade. *Astroparticle Physics*, **2021**, 131, 102606	2.4	13
42	Cosmology from string theory. *Physical Review D*, **2007**, 76,	4.9	11
41	Touch of neutrinos on the vacuum metamorphosis: Is the H0 solution back?. *Physical Review D*, **2021**, 103,	4.9	11
40	Weinberg Higgs portal confronting recent LUX and LHC results together with upper limits on B+ and K+ decay into invisibles. *Physical Review D*, **2014**, 89,	4.9	10
39	Searching for string resonances in e+e and collisions. *Physical Review D*, **2011**, 83,	4.9	10
38	Particle physics on ice: constraints on neutrino interactions far above the weak scale. *Physical Review Letters*, **2006**, 96, 021101	7.4	10
37	THE MYSTERIOUS ULTRAHIGH ENERGY COSMIC RAY CLUSTERING. *Modern Physics Letters A*, **2001**, 16, 2033-2045	1.3	10
36	Neutrino lighthouse powered by Sagittarius A* disk dynamo. *Physical Review D*, **2016**, 94,	4.9	9
35	Using cosmic neutrinos to search for nonperturbative physics at the Pierre Auger Observatory. *Physical Review D*, **2010**, 82,	4.9	9
34	Hot thermal universe endowed with massive dark vector fields and the Hubble tension. *Physical Review D*, **2019**, 100,	4.9	9
33	Ensemble fluctuations of the flux and nuclear composition of ultrahigh energy cosmic ray nuclei. *Physical Review D*, **2013**, 87,	4.9	8
32	Hunting long-lived gluinos at the Pierre Auger Observatory. *Physical Review D*, **2008**, 77,	4.9	8

31	Photo-disintegration of He4 on the cosmic microwave background is less severe than earlier thought. *Physical Review D*, **2018**, 98,	4.9	8
30	Dissecting the H0 and S8 tensions with Planck + BAO + supernova type Ia in multi-parameter cosmologies. *Journal of High Energy Astrophysics*, **2021**, 32, 28-64	2.5	8
29	Anisotropy at the end of the cosmic ray spectrum?. *Physical Review D*, **2003**, 67,	4.9	7
28	RADIATION FROM A UNIFORMLY ACCELERATED CHARGE IN THE OUTSKIRTS OF A WORMHOLE THROAT. *Modern Physics Letters A*, **2000**, 15, 2219-2228	1.3	7
27	Decaying dark matter, the H0 tension, and the lithium problem. *Physical Review D*, **2021**, 103,	4.9	7
26	POEMMA target-of-opportunity sensitivity to cosmic neutrino transient sources. *Physical Review D*, **2020**, 102,	4.9	6
25	Cosmic mass spectrometer. *Journal of High Energy Astrophysics*, **2018**, 17, 38-49	2.5	6
24	Dark energy, Ricci-nonflat spaces, and the swampland. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2021**, 816, 136199	4.2	6
23	Ultrahigh energy cosmic ray nuclei from remnants of dead quasars. *Journal of High Energy Astrophysics*, **2017**, 13-14, 32-45	2.5	4
22	Probing strong dynamics with cosmic neutrinos. *Physical Review D*, **2019**, 100,	4.9	4
21	Majorana dark matter through the Higgs portal under the vacuum stability lamppost. *Physical Review D*, **2015**, 92,	4.9	4
20	Ultrahigh-energy cosmic ray composition from the distribution of arrival directions. *Physical Review D*, **2018**, 98,	4.9	4
19	Through the looking-glass with ALICE into the quark-gluon plasma: A new test for hadronic interaction models used in air shower simulations. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2020**, 810, 135837	4.2	3
18	LHC phenomenology of lowest massive Regge recurrences in the Randall-Sundrum orbifold. *Physical Review D*, **2010**, 82,	4.9	3
17	Risk Assessment of COVID-19 Airborne Infection During Hybrid Learning		3
16	Oscillations of sterile neutrinos from dark matter decay eliminates the IceCube-Fermi tension. *Physical Review D*, **2021**, 103,	4.9	3
15	Toward a robust inference method for the likelihood of low-luminosity gamma-ray bursts to be progenitors of ultrahigh-energy cosmic rays correlating with starburst galaxies. *Journal of High Energy Astrophysics*, **2020**, 25, 23-28	2.5	2
14	HADRONIC INTERACTIONS, PRECOCIOUS UNIFICATION, AND COSMIC RAY SHOWERS AT AUGER ENERGIES. *Modern Physics Letters A*, **2001**, 16, 809-820	1.3	2

List of Publications

13	Constraints from high-precision measurements of the cosmic microwave background: the case of disintegrating dark matter with or dynamical dark energy. *Journal of Cosmology and Astroparticle Physics*, **2022**, 2022, 012	6.4	2
12	Exploring the superwind mechanism for generating ultrahigh-energy cosmic rays using large-scale modeling of starbursts. *Physical Review D*, **2020**, 102,	4.9	2
11	Muon Discrepancy Within D-brane String Compactifications. *Fortschritte Der Physik*, **2021**, 69, 2100084	5.7	2
10	Leptophilic U(1) massive vector bosons from large extra dimensions. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2021**, 820, 136585	4.2	2
9	Indirect dark matter searches at ultrahigh energy neutrino detectors. *Physical Review D*, **2021**, 104,	4.9	2
8	Hunting super-heavy dark matter with ultra-high energy photons. *Astroparticle Physics*, **2021**, 132, 102614	4.4	2
7	New test of Lorentz symmetry using ultrahigh-energy cosmic rays. *Physical Review D*, **2018**, 97,	4.9	1
6	Minimal left-right symmetric intersecting D-brane model. *Physical Review D*, **2017**, 95,	4.9	1
5	Spatial curvature sensitivity to local H0 from the Cepheid distance ladder. *Journal of High Energy Astrophysics*, **2021**,	2.5	1
4	S-dual inflation and the string swampland. *Physical Review D*, **2021**, 103,	4.9	1
3	The Forward Physics Facility: Sites, experiments, and physics potential. *Physics Reports*, **2022**, 968, 1-50	27.7	1
2	Addendum to leptophilic U(1) massive vector bosons from large extra dimensions: Reexamination of constraints from LEP data [Phys. Lett. B 820 (2021) 136585]. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2022**, 828, 137014	4.2	0
1	An explanation of the muon puzzle of ultrahigh-energy cosmic rays and the role of the Forward Physics Facility for model improvement. *Journal of High Energy Astrophysics*, **2022**, 34, 19-32	2.5	0