

Ricardo A VÃ¡zquez

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,312
citations

471509

17
h-index

345221

36
g-index

40
all docs

40
docs citations

40
times ranked

1173
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	12.6	261
2	New Constraints from Haverah Park Data on the Photon and Iron Fluxes of Ultrahigh-Energy Cosmic Rays. <i>Physical Review Letters</i> , 2000, 85, 2244-2247.	7.8	157
3	The highest energy cosmic ray. <i>Astroparticle Physics</i> , 1995, 3, 151-156.	4.3	118
4	Upper Limit on Gamma-Ray Flux above 10^{19} eV Estimated by the Akeno Giant Air Shower Array Experiment. <i>Astrophysical Journal</i> , 2002, 571, L117-L120.	4.5	105
5	Constraints on the ultrahigh-energy photon flux using inclined showers from the Haverah Park array. <i>Physical Review D</i> , 2002, 65, .	4.7	67
6	High energy neutrino astronomy: Horizontal air shower arrays versus underground detectors. <i>Astroparticle Physics</i> , 1993, 1, 297-315.	4.3	64
7	Calculation methods for radio pulses from high energy showers. <i>Physical Review D</i> , 2000, 62, .	4.7	61
8	Characterization of neutrino signals with radiopulses in dense media through the Landau-Pomeranchuk-Migdal effect. <i>Physical Review D</i> , 1999, 61, .	4.7	53
9	BPS Skyrmions as neutron stars. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 742, 136-142.	4.1	49
10	Coherent radio pulses from showers in different media: A unified parametrization. <i>Physical Review D</i> , 2006, 74, .	4.7	41
11	Limits on Topological Defect Neutrino Fluxes from Horizontal Air Shower Measurements. <i>Physical Review Letters</i> , 1997, 78, 3614-3617.	7.8	30
12	Neutron stars in the Bogomol'nyi-Prasad-Sommerfield Skyrme model: Mean-field limit versus full field theory. <i>Physical Review C</i> , 2015, 92, .	2.9	30
13	Thermal behavior and entanglement in Pb-Pb and p-p collisions. <i>Physical Review C</i> , 2019, 99, .	4.7	26
14	High energy cosmic rays from neutrinos. <i>Physical Review D</i> , 2000, 61, .	4.7	28
15	Quantum effective actions from nonperturbative worldline dynamics. <i>Journal of High Energy Physics</i> , 2005, 2005, 067-067.	4.7	26
16	Investigation of the Nicole model. <i>Journal of Mathematical Physics</i> , 2006, 47, 052302.	1.1	26
17	Jet quenching test of the QCD matter created at RHIC and the LHC needs opacity-resummed medium induced radiation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 816, 136251.	4.1	18
18	Comparative study of electromagnetic shower track lengths in water and implications for Čerenkov radio emission. <i>Physical Review D</i> , 2003, 68, .	4.7	17

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19	Baryon chemical potential and in-medium properties of BPS skyrmions. <i>Physical Review D</i> , 2015, 91, .	4.7	17
20	A new consistent neutron star equation of state from a generalized Skyrme model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 811, 135928.	4.1	15
21	Energy determination of extensive air showers through the fluorescence technique. <i>Physical Review D</i> , 2003, 67, .	4.7	13
22	Consequences of Parton Saturation and String Percolation on the Development of Cosmic Ray Showers. <i>Physical Review Letters</i> , 2001, 86, 1674-1677.	7.8	12
23	Search for patterns by combining cosmic-ray energy and arrival directions at the Pierre Auger Observatory. <i>European Physical Journal C</i> , 2015, 75, 269.	3.9	12
24	Composition sensitivity of the Auger observatory through inclined showers. <i>Physical Review D</i> , 2003, 67, .	4.7	9
25	Empirical determination of the very high energy heavy quark cross section from nonaccelerator data. <i>Physical Review D</i> , 1994, 49, 2310-2315.	4.7	7
26	Tests and applications of Migdal's particle path-integral representation for the Dirac propagator. <i>Physical Review D</i> , 2004, 69, .	4.7	7
27	Dense matter equation of state and phase transitions from a generalized Skyrme model. <i>Physical Review D</i> , 2022, 105, .	4.7	7
28	Quasiuniversal relations for generalized Skyrme stars. <i>Physical Review D</i> , 2021, 103, .	4.7	6
29	Thermal and hard scales in transverse momentum distributions, fluctuations, and entanglement. <i>Physical Review C</i> , 2021, 104, .	2.9	6
30	Identification of the primary mass of inclined cosmic ray showers from depth of maximum and number of muon parameters. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 707, 9-15.	1.6	5
31	Improving the Čerenkov imaging technique with neural networks. <i>Physical Review D</i> , 1992, 45, 356-361.	4.7	4
32	Nonperturbative quenched propagator beyond the infrared approximation. <i>Physical Review D</i> , 2002, 65, .	4.7	2
33	New tests and applications of the worldline path integral in the first order formalism. <i>Physical Review D</i> , 2006, 73, .	4.7	2
34	SIMULATIONS OF RADIO EMISSION FROM ELECTROMAGNETIC SHOWERS IN DENSE MEDIA. <i>International Journal of Modern Physics A</i> , 2006, 21, 55-59.	1.5	2
35	The Skyrme Model in the BPS Limit. , 2016, , 193-232.		2
36	Signatures of CP violation in the presence of multiple b-pair production at hadron colliders. <i>Physical Review D</i> , 1995, 51, 4861-4866.	4.7	1

#	ARTICLE	IF	CITATIONS
37	Effects of collective hadronic behaviour on cosmic rays at very high energies. Nuclear Physics, Section B, Proceedings Supplements, 1999, 75, 220-221.	0.4	1
38	BPS Skyrme neutron stars in generalized gravity. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 041-041.	5.4	1
39	Adding crust to BPS Skyrme neutron stars. Physical Review D, 2020, 102, .	4.7	1
40	A unified approach to nuclei: The BPS Skyrme Model. Nuclear and Particle Physics Proceedings, 2016, 273-275, 1480-1486.	0.5	0