

# 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	Dense matter equation of state and phase transitions from a generalized Skyrme model. Physical Review D, 2022, 105, .	4.7	7
2	Quasiuniversal relations for generalized Skyrme stars. Physical Review D, 2021, 103, .	4.7	6
3	Jet quenching test of the QCD matter created at RHIC and the LHC needs opacity-resummed medium induced radiation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136251.	4.1	18
4	Thermal and hard scales in transverse momentum distributions, fluctuations, and entanglement. Physical Review C, 2021, 104, .	2.9	6
5	BPS Skyrme neutron stars in generalized gravity. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 041-041.	5.4	1
6	A new consistent neutron star equation of state from a generalized Skyrme model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135928.	4.1	15
7	Adding crust to BPS Skyrme neutron stars. Physical Review D, 2020, 102, .	4.7	1
8	Thermal behavior and entanglement in Pb-Pb and $\sqrt{s_{NN}} = 2.76$ TeV collisions. Physical Review C, 2019, 99, .	12.6	261
9	Observation of a large-scale anisotropy in the arrival directions of cosmic rays above $8 \times 10^{18}$ eV. Science, 2017, 357, 1266-1270.	12.6	261
10	A unified approach to nuclei: The BPS Skyrme Model. Nuclear and Particle Physics Proceedings, 2016, 273-275, 1480-1486.	0.5	0
11	The Skyrme Model in the BPS Limit. , 2016, , 193-232.		2
12	Baryon chemical potential and in-medium properties of BPS skyrmions. Physical Review D, 2015, 91, .	4.7	17
13	BPS Skyrmions as neutron stars. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 742, 136-142.	4.1	49
14	Search for patterns by combining cosmic-ray energy and arrival directions at the Pierre Auger Observatory. European Physical Journal C, 2015, 75, 269.	3.9	12
15	Neutron stars in the Bogomol'nyi-Prasad-Sommerfield Skyrme model: Mean-field limit versus full field theory. Physical Review C, 2015, 92, .	2.9	30
16	Identification of the primary mass of inclined cosmic ray showers from depth of maximum and number of muon parameters. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 707, 9-15.	1.6	5
17	Investigation of the Nicole model. Journal of Mathematical Physics, 2006, 47, 052302.	1.1	26
18	New tests and applications of the worldline path integral in the first order formalism. Physical Review D, 2006, 73, .	4.7	2

#	ARTICLE	IF	CITATIONS
19	Coherent radio pulses from showers in different media: A unified parametrization. <i>Physical Review D</i> , 2006, 74, .	4.7	41
20	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
21	Quantum effective actions from nonperturbative worldline dynamics. <i>Journal of High Energy Physics</i> , 2005, 2005, 067-067.	4.7	26
22	Tests and applications of Migdal's particle path-integral representation for the Dirac propagator. <i>Physical Review D</i> , 2004, 69, .	4.7	7
23	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
24	Energy determination of extensive air showers through the fluorescence technique. <i>Physical Review D</i> , 2003, 67, .	4.7	13
25	Composition sensitivity of the Auger observatory through inclined showers. <i>Physical Review D</i> , 2003, 67, .	4.7	9
26	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
27	Nonperturbative quenched propagator beyond the infrared approximation. <i>Physical Review D</i> , 2002, 65, .	4.7	2
28	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
29	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
30	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
31	High energy cosmic rays from neutrinos. <i>Physical Review D</i> , 2000, 61, .	4.7	28
32	Calculation methods for radio pulses from high energy showers. <i>Physical Review D</i> , 2000, 62, .	4.7	61
33	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
34	Effects of collective hadronic behaviour on cosmic rays at very high energies. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1999, 75, 220-221.	0.4	1
35	Limits on Topological Defect Neutrino Fluxes from Horizontal Air Shower Measurements. <i>Physical Review Letters</i> , 1997, 78, 3614-3617.	7.8	30
36	The highest energy cosmic ray. <i>Astroparticle Physics</i> , 1995, 3, 151-156.	4.3	118

#	ARTICLE	IF	CITATIONS
37	Signatures of CP violation in the presence of multiple b-pair production at hadron colliders. Physical Review D, 1995, 51, 4861-4866.	4.7	1
38	Empirical determination of the very high energy heavy quark cross section from nonaccelerator data. Physical Review D, 1994, 49, 2310-2315.	4.7	7
39	High energy neutrino astronomy: Horizontal air shower arrays versus underground detectors. Astroparticle Physics, 1993, 1, 297-315.	4.3	64
40	Improving the Čerenkov imaging technique with neural networks. Physical Review D, 1992, 45, 356-361.	4.7	4