

# Pedro Alberto

## List of Publications by Year in descending order

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56  
papers

1,210  
citations

567281

15  
h-index

361022

35  
g-index

56  
all docs

56  
docs citations

56  
times ranked

383  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pseudospin symmetry and the relativistic harmonic oscillator. <i>Physical Review C</i> , 2004, 69, .	2.9	217
2	Tensor coupling and pseudospin symmetry in nuclei. <i>Physical Review C</i> , 2005, 71, .	2.9	113
3	Isospin Asymmetry in the Pseudospin Dynamical Symmetry. <i>Physical Review Letters</i> , 2001, 86, 5015-5018.	7.8	101
4	Pseudospin symmetry as a relativistic dynamical symmetry in the nucleus. <i>Physical Review C</i> , 2002, 65, .	2.9	98
5	Relating pseudospin and spin symmetries through charge conjugation and chiral transformations: The case of the relativistic harmonic oscillator. <i>Physical Review C</i> , 2006, 73, .	2.9	98
6	Relativistic particle in a box. <i>European Journal of Physics</i> , 1996, 17, 19-24.	0.6	78
7	Spin and pseudospin symmetries in the antinucleon spectrum of nuclei. <i>Physical Review C</i> , 2010, 81, .	2.9	53
8	Pattern Search Methods for User-Provided Points: Application to Molecular Geometry Problems. <i>SIAM Journal on Optimization</i> , 2004, 14, 1216-1236.	2.0	46
9	Spin and pseudospin symmetries and the equivalent spectra of relativistic spin-1/2 and spin-0 particles. <i>Physical Review C</i> , 2007, 75, .	2.9	42
10	Nucleon form factors in the projected linear chiral soliton model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1988, 208, 75-78.	4.1	40
11	Spin and pseudospin symmetries of the Dirac equation with confining central potentials. <i>Physical Review C</i> , 2013, 87, .	2.9	37
12	Spin and pseudospin symmetries in the Dirac equation with central Coulomb potentials. <i>Physical Review A</i> , 2012, 86, .	2.5	35
13	Relativistic particle in a three-dimensional box. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 1436-1440.	2.1	30
14	Role of the Coulomb and the vector-isovector $\vec{\tau}$ -potentials in the isospin asymmetry of nuclear pseudospin. <i>Physical Review C</i> , 2003, 67, .	2.9	26
15	PERTURBATIVE BREAKING OF THE PSEUDOSPIN SYMMETRY IN THE RELATIVISTIC HARMONIC OSCILLATOR. <i>International Journal of Modern Physics D</i> , 2004, 13, 1447-1451.	2.1	21
16	$N\hat{\alpha}$ — electroproduction amplitudes in a model with dynamical confinement. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 523, 273-279.	4.1	15
17	Canonical quantization of the chiral soliton model with vector mesons and the $N\hat{\alpha}$ splitting. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990, 236, 381-386.	4.1	13
18	On the relativistic L - S coupling. <i>European Journal of Physics</i> , 1998, 19, 553-562.	0.6	13

#	ARTICLE	IF	CITATIONS
19	Relativistic particle in a box: Klein-Gordon versus Dirac equations. European Journal of Physics, 2018, 39, 025401.	0.6	13
20	$\hat{T}^3$ (1232) electroproduction amplitudes in chiral soliton models of the nucleon. Physical Review C, 2000, 62, .	2.9	11
21	Pseudospin and spin symmetries in 1+1 dimensions: The case of the Coulomb potential. Annals of Physics, 2015, 356, 83-94.	2.8	10
22	Linear and angular momentum projected observables in the chiral chromodielectric model of the nucleon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 268, 1-5.	4.1	9
23	General spin and pseudospin symmetries of the Dirac equation. Physical Review A, 2015, 92, .	2.5	9
24	The nuclear pseudospin symmetry along an isotopic chain. Brazilian Journal of Physics, 2004, 34, 293-296.	1.4	8
25	On the non-uniqueness of main geomagnetic field determined by surface intensity measurements: the Backus problem. Geophysical Journal International, 2004, 159, 548-554.	2.4	8
26	New solutions of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"} \rangle \langle \text{mml:mi} \rangle D \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -dimensional Klein-Gordon equation via mapping onto the nonrelativistic one-dimensional Morse potential. Annals of Physics, 2017, 378, 88-99.	2.8	8
27	Solutions of the three-dimensional radial Dirac equation from the Schrödinger equation with one-dimensional Morse potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2050-2054.	2.1	8
28	Relativistic pseudospin and spin symmetries in physical systems - recent results. Journal of Physics: Conference Series, 2014, 490, 012069.	0.4	7
29	Form factors in the projected chiral soliton model with vector mesons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 247, 210-214.	4.1	5
30	Direct calculation of the K-matrix for pion electro-production in the delta channel. European Physical Journal A, 2005, 26, 99-106.	2.5	5
31	The projected chiral soliton model with vector mesons. Nuclear Physics A, 1995, 591, 561-605.	1.5	4
32	Temperature effects on nuclear pseudospin symmetry in the Dirac-Hartree-Bogoliubov formalism. Physical Review C, 2017, 96, .	2.9	4
33	Form factors in the projected linear chiral sigma model. Zeitschrift für Physik A, Atomic Nuclei, 1990, 336, 449-460.	0.3	3
34	PEIERLS-YOCCOZ PROJECTION IN $\tilde{f}$ MODELS. International Journal of Modern Physics E, 2005, 14, 1171-1196.	1.0	3
35	Time-correlated patterns from spherical harmonic expansions: Application to geomagnetism. Journal of Geophysical Research: Solid Earth, 2015, 120, 8012-8030.	3.4	3
36	Generalizing spin and pseudospin symmetries for relativistic spin 1/2 fermions. Journal of Physics: Conference Series, 2016, 738, 012033.	0.4	3

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37	Center-of-mass correction in a relativistic Hartree approximation including meson degrees of freedom. <i>Physical Review C</i> , 2007, 75, .	2.9	2
38	From the nonrelativistic Morse potential to a unified treatment of a large class of bound-state solutions of a modified $d$ -dimensional Klein-Gordon equation. <i>Astronomische Nachrichten</i> , 2017, 338, 1160-1165.	1.2	2
39	Pure Coulomb tensor interaction in the Dirac equation. <i>Physical Review A</i> , 2019, 99, .	2.5	2
40	Analytic continuation of nucleon electromagnetic form factors in the time-like region. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 0, , .	3.6	2
41	Center-of-mass correction in a relativistic Hartree approximation. <i>Brazilian Journal of Physics</i> , 2006, 36, 1375-1378.	1.4	2
42	Hedgehog structures in general quark-meson Lagrangians. <i>Zeitschrift für Physik A, Atomic Nuclei</i> , 1989, 333, 203-207.	0.3	1
43	The nucleon as a projected chiral soliton: Vacuum and medium properties. <i>Progress in Particle and Nuclear Physics</i> , 1990, 24, 283-302.	14.4	1
44	Ab-initio modeling of acceptor-hydrogen complexes in CdTe. <i>Physica B: Condensed Matter</i> , 2006, 376-377, 775-777.	2.7	1
45	CENTER-OF-MASS CORRECTIONS IN RELATIVISTIC MEAN FIELD DESCRIPTIONS OF LIGHT NUCLEI. , 2003, , .		0
46	Medium modification of nucleon properties in a Walecka's Linear Sigma Model description. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	0
47	Harmonic oscillator and nuclear pseudospin. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	0
48	The effect of temperature and pairing on nuclear pseudospin symmetry. , 2009, , .		0
49	Antinucleon spectra in the Dirac equation with scalar and vector Wood-Saxon potentials. , 2009, , .		0
50	Pseudospin and Spin Symmetries in the Dirac Equation for Confining Potentials with the Application to the Coulomb Potential in 1+1 Dimensions. <i>Acta Physica Polonica B, Proceedings Supplement</i> , 2015, 8, 267.	0.1	0
51	Spin in a planar relativistic fermion problem. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 404, 127412.	2.1	0
52	Pattern Search Methods for Use-Provided Points. <i>Lecture Notes in Computer Science</i> , 2001, , 95-98.	1.3	0
53	RECOIL EFFECTS IN THE ELECTROPRODUCTION OF THE DELTA. , 2001, , .		0
54	ROPER ELECTROPRODUCTION AMPLITUDES IN A CHIRAL CONFINEMENT MODEL , 2002, , .		0

#	ARTICLE	IF	CITATIONS
55	RADIAL EXCITED STATES OF THE NUCLEON IN QUARK MODELS WITH DYNAMICAL CONFINEMENT. , 2003, , .		0
56	DYNAMICAL NATURE OF THE NUCLEAR PSEUDOSPIN AND ITS ISOSPIN ASYMMETRY. , 2003, , .		0