

# Alvaro de Souza Dutra

## List of Publications by Year in descending order

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102  
papers

1,640  
citations

331259

21  
h-index

329751

37  
g-index

104  
all docs

104  
docs citations

104  
times ranked

444  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling dark matter halos with nonlinear field theories. <i>Physical Review D</i> , 2021, 103, .	1.6	1
2	Creating oscillons and oscillating kinks in two scalar field theories. <i>Chaos</i> , 2019, 29, 103124.	1.0	2
3	A General Method for Transforming Nonphysical Configurations in BPS States. <i>Advances in High Energy Physics</i> , 2019, 2019, 1-11.	0.5	0
4	Refinements of the Weyl Pure Geometrical Thick Branes From Informationâ€™Entropic Measure. <i>Annalen Der Physik</i> , 2018, 530, 1700188.	0.9	3
5	Lorentz Violation and Topologically Trapped Fermions in 2+1 Dimensions. <i>Annalen Der Physik</i> , 2018, 530, 1700405.	0.9	2
6	Cosmological scenarios from multiquintessence. <i>European Physical Journal C</i> , 2018, 78, 1.	1.4	4
7	A complete set of eigenstates for position-dependent massive particles in a Morse-like scenario. <i>Journal of Mathematical Physics</i> , 2017, 58, 012104.	0.5	5
8	On the Hamiltonâ€™Jacobi method in classical and quantum nonconservative systems. <i>Progress of Theoretical and Experimental Physics</i> , 2016, 2016, 083A02.	1.8	1
9	Method for obtaining thick brane models. <i>Physical Review D</i> , 2015, 91, .	1.6	29
10	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle D \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -oscillons in the standard model extension. <i>Physical Review D</i> , 2015, 91, .	1.6	12
11	Coupled Scalar Fields Oscillons and Breathers in Some Lorentz Violating Scenarios. <i>Advances in High Energy Physics</i> , 2015, 2015, 1-17.	0.5	12
12	Wide localized solutions of the parity-time-symmetric nonautonomous nonlinear SchrÃ¶dinger equation. <i>Physical Review E</i> , 2015, 91, 013205.	0.8	8
13	Entropic information for travelling solitons in Lorentz and CPT breaking systems. <i>Annals of Physics</i> , 2015, 359, 198-212.	1.0	38
14	Smooth braneworld models possibility in modified gravities. <i>International Journal of Modern Physics D</i> , 2015, 24, 1550089.	0.9	14
15	Asymmetrical Bloch branes and the hierarchy problem. <i>Europhysics Letters</i> , 2014, 108, 11001.	0.7	23
16	Information-entropic measure of energy-degenerate kinks in two-field models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014, 737, 388-394.	1.5	28
17	Analytical multikinks in smooth potentials. <i>Physical Review D</i> , 2014, 89, .	1.6	10
18	Orbit based procedure for doublets of scalar fields and the emergence of triple kinks and other defects. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014, 736, 438-445.	1.5	8

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19	Multikink solutions and deformed defects. <i>Annals of Physics</i> , 2014, 351, 620-633.	1.0	8
20	Wide vector solitons in systems with time- and space-modulated nonlinearities. <i>Physical Review E</i> , 2013, 88, 053202.	0.8	10
21	Wide localized solitons in systems with time- and space-modulated nonlinearities. <i>Physical Review E</i> , 2012, 86, 026605.	0.8	9
22	Disclosing the generic behavior of topological solutions: An orbit-based approach. <i>Europhysics Letters</i> , 2012, 98, 10011.	0.7	3
23	Nonlinear two-field models from orbit equation deformations. <i>Physical Review D</i> , 2011, 84, .	1.6	4
24	Traveling solitons in Lorentz and $CPT$ -breaking systems. <i>Physical Review D</i> , 2011, 83, .	1.6	36
25	Fermion localization on degenerate and critical branes. <i>Classical and Quantum Gravity</i> , 2011, 28, 155012.	1.5	42
26	Fermions bounded by kinks of false vacuum models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 693, 188-197.	1.5	7
27	Extended class of exact twistons and crystalline polyethylene. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 365402.	0.7	3
28	Two-dimensional position-dependent massive particles in the presence of magnetic fields. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 025304.	0.7	18
29	Continuously deformable topological structure. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 798-802.	1.3	11
30	Real spectra for the non-Hermitian Dirac equation in $1+1$ dimensions with the most general coupling. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 3401-3406.	0.9	19
31	Fluctuating solutions for the evolution of domain walls. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 679, 138-143.	1.5	9
32	Extension of PT-symmetric quantum mechanics to the Dirac theory with position-dependent mass. <i>Annals of Physics</i> , 2008, 323, 566-579.	1.0	77
33	Degenerate and critical Bloch branes. <i>Physical Review D</i> , 2008, 78, .	1.6	62
34	Wigner distribution for a class of isospectral position-dependent mass systems. <i>Physica Scripta</i> , 2008, 78, 035009.	1.2	11
35	Restrictions over two-dimensional gauge models with Thirring-like interaction. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 13479-13484.	0.7	2
36	PT-symmetric kinks. <i>Physical Review D</i> , 2007, 75, .	1.6	11

#	ARTICLE	IF	CITATIONS
37	Multiflavor soldering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 656, 158-163.	1.5	0
38	Position-dependent effective mass Dirac equations with PT-symmetric and non-PT-symmetric potentials. Journal of Physics A, 2006, 39, 11877-11887.	1.6	43
39	Generalizing the soldering procedure. Physical Review D, 2006, 74, .	1.6	12
40	Two field BPS solutions for generalized Lorentz breaking models. Physical Review D, 2006, 74, .	1.6	28
41	On some classes of exactly-solvable Klein-Gordon equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 349, 297-301.	0.9	56
42	Classes of exact Klein-Gordon equations with spatially dependent masses: Regularizing the one-dimensional inversely linear potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 352, 484-487.	0.9	44
43	Dirac equation exact solutions for generalized asymmetrical Hartmann potentials. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 356, 215-219.	0.9	45
44	Expanding the class of general exact solutions for interacting two field kinks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 642, 274-278.	1.5	18
45	Quantum propagator for some classes of three-dimensional three-body systems. Annals of Physics, 2006, 321, 1092-1102.	1.0	1
46	Ordering ambiguity versus representation. Journal of Physics A, 2006, 39, 203-208.	1.6	22
47	Mapping deformed hyperbolic potentials into nondeformed ones. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 339, 252-254.	0.9	16
48	General solutions for some classes of interacting two field kinks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 626, 249-255.	1.5	48
49	Vacuumless kink systems from vacuum systems: An example. Physical Review D, 2005, 72, .	1.6	11
50	Time-dependent non-Hermitian Hamiltonians with real energies. Europhysics Letters, 2005, 71, 166-171.	0.7	30
51	Classical Versus Quantum Equivalence Between Sine-Gordon, Liouville and Other Solitons. European Physical Journal D, 2004, 54, 1229-1234.	0.4	4
52	Classes of exact wave functions for general time-dependent Dirac Hamiltonians in 1+1 dimensions. Physical Review A, 2003, 67, .	1.0	18
53	Variational method for excited states from supersymmetric techniques. Canadian Journal of Physics, 2003, 81, 1283-1291.	0.4	7
54	Remarks on supersymmetry of quantum systems with position-dependent effective masses. Europhysics Letters, 2003, 62, 8-13.	0.7	57

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55	Perturbative bosonization from two-point correlation functions. Physical Review D, 2003, 67, .	1.6	4
56	New possibilities for the gauging of chiral bosons. Physical Review D, 2003, 67, .	1.6	3
57	Approximate expression for the energy of aD-dimensional anharmonic potential. Journal of Physics A, 2003, 36, 1711-1718.	1.6	7
58	New approaches inWgravities. Physical Review D, 2002, 66, .	1.6	0
59	Effective action for QED with fermion self-interaction inD=2andD=3dimensions. Physical Review D, 2002, 65, .	1.6	6
60	Structural Aspects of the Fermion-Boson Mapping in Two-Dimensional Gauge and Anomalous Gauge Theories with Massive Fermions. Annals of Physics, 2002, 296, 98-127.	1.0	4
61	Interference phenomena, chiral bosons, and Lorentz invariance. Physical Review D, 2001, 64, .	1.6	2
62	New remarks on the linear constraint self-dual boson and Wess-Zumino terms. Physical Review D, 2001, 64, .	1.6	0
63	Approximate analytical states of a polynomial potential: an example of symmetry restoration. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 269, 281-286.	0.9	17
64	Exact solvability of potentials with spatially dependent effective masses. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 275, 25-30.	0.9	222
65	Reply to "Comment on "Conditionally exactly soluble class of potentials" " Physical Review A, 2000, 61, 1.0	1.0	3
66	Quadratic effective action for QED inD=2,3dimensions. Physical Review D, 2000, 61, .	1.6	6
67	REMARKS ON FERMION"BOSON EQUIVALENCE IN THREE DIMENSIONS. Modern Physics Letters A, 1999, 14, 307-315.	0.5	4
68	Class of self-dual models in three dimensions. Physical Review D, 1999, 61, .	1.6	9
69	Symmetry transform in Faddeev-Jackiw quantization of dual models. Physical Review D, 1999, 59, .	1.6	6
70	Non-Anomalous Generalized Chiral Schwinger Model. Modern Physics Letters A, 1997, 12, 1235-1240.	0.5	0
71	A simple action for a free fractional spin particle. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 414, 315-322.	1.5	5
72	BRST-BFV formalism for the generalized Schwinger model. Zeitschrift fr Physik C-Particles and Fields, 1997, 75, 575-578.	1.5	0

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73	CONSISTENT HIGHER DERIVATIVE QUANTUM FIELD THEORY: A MODEL WITHOUT TACHYONS AND GHOSTS. Modern Physics Letters A, 1996, 11, 775-783.	0.5	7
74	AXIAL-SCHWINGER MODEL. International Journal of Modern Physics A, 1996, 11, 2931-2939.	0.5	1
75	A free relativistic anyon with canonical spin algebra. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 343, 225-230.	1.5	8
76	Chiral Schwinger model with a Podolsky term at finite temperature. Zeitschrift für Physik C-Particles and Fields, 1995, 67, 687-693.	1.5	1
77	Hamiltonian quantization of the non-anomalous generalized Schwinger model. Zeitschrift für Physik C-Particles and Fields, 1995, 66, 517-522.	1.5	0
78	The partition function for an anyon-like oscillator. Journal of Physics A, 1995, 28, L7-L12.	1.6	5
79	Approximate analytic expression for the eigenenergies of the anharmonic oscillator $V(x)=Ax^6+Bx^2$ . Physical Review A, 1995, 51, 3480-3484.	1.0	21
80	COMPARISON OF THE ANOMALOUS AND NONANOMALOUS GENERALIZED SCHWINGER MODELS VIA THE FUNCTIONAL FORMALISM. International Journal of Modern Physics A, 1994, 09, 2229-2244.	0.5	5
81	Expanding the class of conditionally exactly solvable potentials. Physical Review A, 1994, 50, 4369-4372.	1.0	3
82	$so(2,1)$ Lie algebra and the Green's functions for the conditionally exactly solvable potentials. Physical Review A, 1994, 50, 2915-2920.	1.0	7
83	Mapping correlation functions of Schwinger and axial models. Journal of Physics C: Nuclear and Particle Physics, 1993, 19, 1127-1136.	1.4	0
84	Conditionally exactly soluble class of quantum potentials. Physical Review A, 1993, 47, R2435-R2437.	1.0	98
85	NEW REMARKS ON CHIRAL BOSONIZATION. Modern Physics Letters A, 1992, 07, 1449-1454.	0.5	1
86	NON-ANOMALOUS BOSONIZED THEORIES FROM A GAUGE PRINCIPLE. Modern Physics Letters A, 1992, 07, 1623-1627.	0.5	1
87	On the quantum mechanical propagator for driven coupled harmonic oscillators. Journal of Physics A, 1992, 25, 4189-4198.	1.6	8
88	An alternative prescription for gauging Floreanini-Jackiw chiral bosons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 293, 132-136.	1.5	3
89	On the meaning of the minimal Wess-Zumino term. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 286, 285-289.	1.5	6
90	Dynamical algebra of quasi-exactly-solvable potentials. Physical Review A, 1991, 44, 4721-4724.	1.0	20

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91	The propagator for a charged oscillator with a time-dependent mass in a time-varying electromagnetic field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 156, 371-376.	0.9	19
92	On the quantum Hamilton-Jacobi formalism. <i>Foundations of Physics</i> , 1991, 21, 649-663.	0.6	8
93	Two-dimensional models in quantum field theory: Reduction to the free-particle case. <i>Physical Review A</i> , 1991, 44, 4122-4125.	1.0	1
94	Exact propagator beyond and at caustics for isotropic time-dependent coupled and driven oscillators. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990, 145, 391-395.	0.9	5
95	An alternative method to calculate propagators. <i>European Journal of Physics</i> , 1989, 10, 194-196.	0.3	2
96	Feynman's propagator for a charged particle with time-dependent mass in a crossed time-varying electromagnetic field. <i>Physical Review A</i> , 1989, 39, 5897-5902.	1.0	17
97	Galilean transformation and the path integral propagator for a crossed electric and magnetic field. <i>American Journal of Physics</i> , 1989, 57, 330-332.	0.3	7
98	Exact solutions of the Schrödinger equation for Coulombian atoms in the presence of some anharmonic oscillator potentials. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1988, 131, 319-321.	0.9	50
99	The propagator for a time-dependent mass subject to a harmonic potential with a time-dependent frequency. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1987, 123, 297-301.	0.9	18
100	Propagator for a harmonically bound charged particle in a constant magnetic field and with the vector potential of a solenoid. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1987, 123, 105-109.	0.9	5
101	Zassenhaus's formula and the propagator of a particle moving under the action of a constant force. <i>American Journal of Physics</i> , 1986, 54, 377-378.	0.3	2
102	On the convergence of path integrals. <i>Journal of Physics A</i> , 1986, 19, L763-L770.	1.6	3