A L Salas-Brito

List of Publications by Year
in descending order

35 papers	667 citations	623734 14 h-index	580821 25 g-index
38 all docs	38 docs citations	38 times ranked	299 citing authors

#	Article	IF	Citations
1	Solution and hidden supersymmetry of a Dirac oscillator. Physical Review Letters, 1990, 64, 1643-1645.	7.8	166
2	Relativistic quantum mechanics of a Dirac oscillator. European Journal of Physics, 1995, 16, 135-141.	0.6	53
3	Disorder Induced Diffusive Transport in Ratchets. Physical Review Letters, 2000, 85, 3321-3324.	7.8	52
4	Quenched disorder effects on deterministic inertia ratchets. Physical Review E, 2001, 63, 061104.	2.1	36
5	Regular and chaotic behaviour in an extensible pendulum. European Journal of Physics, 1994, 15, 139-148.	0.6	29
6	Quantum solution for the one-dimensional Coulomb problem. Physical Review A, 2011, 83, .	2.5	21
7	Generalized hypervirial and recurrence relations for hydrogenic matrix elements. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, L525-L529.	1.5	20
8	Limitations on the superposition principle: superselection rules in non-relativistic quantum mechanics. European Journal of Physics, 1998, 19, 237-243.	0.6	20
9	An operator solution for the hydrogen atom using the phase as an additional variable. American Journal of Physics, 2007, 75, 629-634.	0.7	18
10	Relativistically extended Blanchard recurrence relation for hydrogenic matrix elements. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 1261-1276.	1.5	17
11	Nonunitary representations of the SU(2) algebra in the Dirac equation with a Coulomb potential. Journal of Mathematical Physics, 1999, 40, 2324-2336.	1.1	16
12	On computing the trace of the kernel of the homogeneous Fredholm's equation. Journal of Mathematical Physics, 2008, 49, 103508.	1.1	15
13	Closed orbits and constants of motion in classical mechanics. European Journal of Physics, 1992, 13, 26-31.	0.6	14
14	The Hamilton vector as an extra constant of motion in the Kepler problem. European Journal of Physics, 1993, 14, 71-73.	0.6	14
15	Superintegrability in Classical Mechanics: A Contemporary Approach to Bertrand's Theorem. International Journal of Modern Physics A, 1997, 12, 271-276.	1.5	14
16	In velocity space the Kepler orbits are circular. European Journal of Physics, 1996, 17, 168-171.	0.6	13
17	Oscillators in one and two dimensions and ladder operators for the Morse and Coulomb problems. International Journal of Quantum Chemistry, 1997, 62, 177-183.	2.0	13
18	New non-unitary representations in a Dirac hydrogen atom. Journal of Physics A, 1998, 31, L157-L161.	1.6	13

#	Article	IF	Citations
19	Ansu(1, 1) algebraic method for the hydrogen atom. Journal of Physics A, 2005, 38, 8579-8588.	1.6	9
20	The two dimensional motion of a particle in an inverse square potential: Classical and quantum aspects. Journal of Mathematical Physics, 2013, 54, .	1.1	9
21	From circular paths to elliptic orbits: a geometric approach to Kepler's motion. European Journal of Physics, 1998, 19, 431-438.	0.6	8
22	The velocity hodograph for an arbitrary Kepler motion. European Journal of Physics, 2000, 21, L39-L40.	0.6	8
23	Algebraic approach to radial ladder operators in the hydrogen atom. International Journal of Quantum Chemistry, 2007, 107, 1608-1613.	2.0	8
24	A useful form of the recurrence relation between relativistic atomic matrix elements of radial powers. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, L71-L75.	1.5	6
25	Classical and quantum dynamics in an inverse square potential. Journal of Mathematical Physics, 2014, 55, .	1.1	6
26	Constant of motion for the hydrogen atom in an external field: a classical view. European Journal of Physics, 1995, 16, 220-222.	0.6	5
27	Recurrence relations for relativistic atomic matrix elements. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, L367-L374.	1.5	5
28	Tracing a planet's orbit with a straight edge and a compass with the help of the hodograph and the Hamilton vector. American Journal of Physics, 2003, 71, 585-589.	0.7	4
29	Comment on 'The one-dimensional Coulomb problem'. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 208003.	2.1	3
30	The ellipse in parabolic motion: An undergraduate experiment. American Journal of Physics, 2014, 82, 354-356.	0.7	3
31	Comment on "Calculations for the one-dimensional soft Coulomb problem and the hard Coulomb limit". Physical Review E, 2015, 91, 027301.	2.1	3
32	Calculation of matrix elements in relativistic quantum mechanics. International Journal of Quantum Chemistry, 2002, 90, 195-201.	2.0	2
33	Periodic orbits, superintegrability, and Bertrand's theorem. AIP Advances, 2020, 10, 065003.	1.3	2
34	Comment on "Quantum mechanics of the $1/x^2$ potential," by Andrew M. Essin and David J. Griffiths [Am. J. Phys. 74 (2), 109–117 (2006)]. American Journal of Physics, 2007, 75, 953-955.	0.7	1
35	The Dirac H-atom using the phase as an extra variable. European Journal of Physics, 2020, 41, 055405.	0.6	0