

A L Salas-Brito

List of Publications by Year in descending order

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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	The Dirac H-atom using the phase as an extra variable. <i>European Journal of Physics</i> , 2020, 41, 055405.	0.6	0
2	Periodic orbits, superintegrability, and Bertrand's theorem. <i>AIP Advances</i> , 2020, 10, 065003.	1.3	2
3	Comment on "Calculations for the one-dimensional soft Coulomb problem and the hard Coulomb limit". <i>Physical Review E</i> , 2015, 91, 027301.	2.1	3
4	Classical and quantum dynamics in an inverse square potential. <i>Journal of Mathematical Physics</i> , 2014, 55, .	1.1	6
5	The ellipse in parabolic motion: An undergraduate experiment. <i>American Journal of Physics</i> , 2014, 82, 354-356.	0.7	3
6	The two dimensional motion of a particle in an inverse square potential: Classical and quantum aspects. <i>Journal of Mathematical Physics</i> , 2013, 54, .	1.1	9
7	Comment on "The one-dimensional Coulomb problem". <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 208003.	2.1	3
8	Quantum solution for the one-dimensional Coulomb problem. <i>Physical Review A</i> , 2011, 83, .	2.5	21
9	On computing the trace of the kernel of the homogeneous Fredholm's equation. <i>Journal of Mathematical Physics</i> , 2008, 49, 103508.	1.1	15
10	An operator solution for the hydrogen atom using the phase as an additional variable. <i>American Journal of Physics</i> , 2007, 75, 629-634.	0.7	18
11	Comment on "Quantum mechanics of the $1\hat{x}^2$ potential," by Andrew M. Essin and David J. Griffiths [<i>Am. J. Phys.</i> 74 (2), 109-117 (2006)]. <i>American Journal of Physics</i> , 2007, 75, 953-955.	0.7	1
12	Algebraic approach to radial ladder operators in the hydrogen atom. <i>International Journal of Quantum Chemistry</i> , 2007, 107, 1608-1613.	2.0	8
13	Ansu(1, 1) algebraic method for the hydrogen atom. <i>Journal of Physics A</i> , 2005, 38, 8579-8588.	1.6	9
14	Tracing a planet's orbit with a straight edge and a compass with the help of the hodograph and the Hamilton vector. <i>American Journal of Physics</i> , 2003, 71, 585-589.	0.7	4
15	A useful form of the recurrence relation between relativistic atomic matrix elements of radial powers. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2002, 35, L71-L75.	1.5	6
16	Calculation of matrix elements in relativistic quantum mechanics. <i>International Journal of Quantum Chemistry</i> , 2002, 90, 195-201.	2.0	2
17	Relativistically extended Blanchard recurrence relation for hydrogenic matrix elements. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001, 34, 1261-1276.	1.5	17
18	Quenched disorder effects on deterministic inertia ratchets. <i>Physical Review E</i> , 2001, 63, 061104.	2.1	36

#	ARTICLE	IF	CITATIONS
19	Recurrence relations for relativistic atomic matrix elements. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000, 33, L367-L374.	1.5	5
20	Disorder Induced Diffusive Transport in Ratchets. <i>Physical Review Letters</i> , 2000, 85, 3321-3324.	7.8	52
21	The velocity hodograph for an arbitrary Kepler motion. <i>European Journal of Physics</i> , 2000, 21, L39-L40.	0.6	8
22	Nonunitary representations of the $SU(2)$ algebra in the Dirac equation with a Coulomb potential. <i>Journal of Mathematical Physics</i> , 1999, 40, 2324-2336.	1.1	16
23	Limitations on the superposition principle: superselection rules in non-relativistic quantum mechanics. <i>European Journal of Physics</i> , 1998, 19, 237-243.	0.6	20
24	New non-unitary representations in a Dirac hydrogen atom. <i>Journal of Physics A</i> , 1998, 31, L157-L161.	1.6	13
25	From circular paths to elliptic orbits: a geometric approach to Kepler's motion. <i>European Journal of Physics</i> , 1998, 19, 431-438.	0.6	8
26	Superintegrability in Classical Mechanics: A Contemporary Approach to Bertrand's Theorem. <i>International Journal of Modern Physics A</i> , 1997, 12, 271-276.	1.5	14
27	Oscillators in one and two dimensions and ladder operators for the Morse and Coulomb problems. <i>International Journal of Quantum Chemistry</i> , 1997, 62, 177-183.	2.0	13
28	In velocity space the Kepler orbits are circular. <i>European Journal of Physics</i> , 1996, 17, 168-171.	0.6	13
29	Constant of motion for the hydrogen atom in an external field: a classical view. <i>European Journal of Physics</i> , 1995, 16, 220-222.	0.6	5
30	Generalized hypervirial and recurrence relations for hydrogenic matrix elements. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1995, 28, L525-L529.	1.5	20
31	Relativistic quantum mechanics of a Dirac oscillator. <i>European Journal of Physics</i> , 1995, 16, 135-141.	0.6	53
32	Regular and chaotic behaviour in an extensible pendulum. <i>European Journal of Physics</i> , 1994, 15, 139-148.	0.6	29
33	The Hamilton vector as an extra constant of motion in the Kepler problem. <i>European Journal of Physics</i> , 1993, 14, 71-73.	0.6	14
34	Closed orbits and constants of motion in classical mechanics. <i>European Journal of Physics</i> , 1992, 13, 26-31.	0.6	14
35	Solution and hidden supersymmetry of a Dirac oscillator. <i>Physical Review Letters</i> , 1990, 64, 1643-1645.	7.8	166