Juan Carlos Lopez Vieyra

List of Publications by Year
in descending order

40 papers	342 citations	933447 10 h-index	888059 17 g-index
41 all docs	41 docs citations	41 times ranked	162 citing authors

#	Article	IF	Citations
1	One-electron molecular systems in a strong magnetic field. Physics Reports, 2006, 424, 309-396.	25.6	66
2	Fourth order superintegrable systems separating in polar coordinates. I. Exotic potentials. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 495206.	2.1	25
3	How good are the Garveyâ€“Kelson predictions of nuclear masses?. Nuclear Physics A, 2009, 828, 113-124.	1.5	20
4	A HYDROGENIC MOLECULAR ATMOSPHERE OF A NEUTRON STAR. Modern Physics Letters A, 2004, 19, 1919-1923.	1.2	19
5	Solvability of the Hamiltonians Related to Exceptional Root Spaces: Rational Case. Communications in Mathematical Physics, 2005, 260, 17-44.	2.2	19
6	Testing the predictive power of nuclear mass models. Nuclear Physics A, 2008, 812, 28-43.	1.5	17
7	Nuclear masses and the number of valence nucleons. Nuclear Physics A, 2008, 799, 84-93.	1.5	17
8	Crossover in nonstandard random-matrix spectral fluctuations without unfolding. Physical Review E, 2018, 98, 022110.	2.1	15
9	Few-electron atomic ions in non-relativistic QED: The ground state. Annals of Physics, 2019, 409, 167908.	2.8	13
10	SOLVABILITY OF THE F4 INTEGRABLE SYSTEM. International Journal of Modern Physics A, 2001, 16, 4769-4801.	1.5	12
11	Stable<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>He</mml:mi><mml:mo mathvariant="bold">âˆ’</mml:mo></mml:msup></mml:math>can Exist in a Strong Magnetic Field. Physical Review Letters, 2013, 111, 163003.	7.8	10
12	THE ART OF PREDICTING NUCLEAR MASSES. International Journal of Modern Physics E, 2008, 17, 398-411.	1.0	9
13	Ground State of the H₃⁺ Molecular Ion: Physics Behind. Journal of Physical Chemistry A, 2013, 117, 10119-10128.	2.5	9
14	Ultraâ€compact accurate wave functions for Heâ€like and Liâ€like isoâ€electronic sequences and variational calculus: I. Ground state. International Journal of Quantum Chemistry, 2021, 121, e26586.	2.0	9
15	EXOTIC MOLECULAR IONS (HeH)2+ AND ${m He}_2^{3+}$ IN A STRONG MAGNETIC FIELD: LOW-LYING STATES. International Journal of Modern Physics A, 2007, 22, 1605-1626.	1.5	8
16	Fourth-order superintegrable systems separating in polar coordinates. II. Standard potentials. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 455202.	2.1	8
17	On 1/<i>Z</i> expansion, the critical charge for a two-electron system, and the Kato theorem. Canadian Journal of Physics, 2016, 94, 249-253.	1.1	7
18	Three-body quantum Coulomb problem: Analytic continuation. Modern Physics Letters A, 2016, 31, 1650156.	1.2	6

#	ARTICLE	IF	CITATIONS
19	About the ground state of the H⁺₃hydrogen molecular ion. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 195101.	1.5	5
20	<scp>Ultra</scp>â€compact accurate wave functions for Heâ€like and Liâ€like isoâ€electronic sequences and variational calculus:<scp>II.</scp>Spinâ€singlet (excited) and spinâ€triplet (lowest) states of helium sequence. International Journal of Quantum Chemistry, 2022, 122, .	2.0	5
21	Regge behaviour from an environmentally friendly renormalization group. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 414, 333-339.	4.1	4
22	Existence of the finite hydrogenic molecular chain H3 and ion H2âˆ’ in a strong magnetic field. Physical Review A, 2019, 100, .	2.5	4
23	<scp>Ultraâ€compact</scp> accurate wave functions for Heâ€like and Liâ€like isoâ€electronic sequences and variational calculus: <scp>III</scp>. Spinâ€quartet state (1<scp><i>s</i>2<i>s</i>3<i>s</i></scp>) of the lithium sequence. International Journal of Quantum Chemistry, 2022, 122, .	2.0	4
24	COULOMB SYSTEMS IN A STRONG MAGNETIC FIELD. Modern Physics Letters A, 2005, 20, 2845-2854.	1.2	3
25	Hydrogen Atom and One-Electron Molecular Systems in a Strong Magnetic Field: Are All of Them Alike. Collection of Czechoslovak Chemical Communications, 2005, 70, 1133-1156.	1.0	3
26	SUTHERLAND-TYPE TRIGONOMETRIC MODELS, TRIGONOMETRIC INVARIANTS AND MULTIVARIABLE POLYNOMIALS II: E₇ CASE. Modern Physics Letters A, 2009, 24, 1995-2004.	1.2	3
27	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="bold">He</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msup><mml:mrow /><mml:mo>+</mml:mo></mml:msup></mml:math> molecular ion and the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi mathvariant="bold">He</mml:mi></mml:mrow><mml:mo>âˆ’</mml:mo></mml:msup></mml:math> atomic ion in strong magnetic fields. Physical Review A, 2017, 96, .	2.5	3
28	Five-body choreography on the algebraic lemniscate is a potential motion. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 1711-1715.	2.1	3
29	The hydrogen molecule H2 in inclined configuration in a weak magnetic field. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 233, 78-86.	2.3	3
30	Particular superintegrability of 3-body (modified) Newtonian gravity. Modern Physics Letters A, 2020, 35, 2050185.	1.2	3
31	QUANTUM FIELD THEORY IN THE LIMIT xâ‰ª1. International Journal of Modern Physics A, 2000, 15, 1773-1816.	1.5	2
32	PREDICTING NUCLEAR MASSES BY IMAGE RECONSTRUCTION. International Journal of Modern Physics E, 2006, 15, 1855-1867.	1.0	2
33	Exotic ion H 3 ++ in strong magnetic fields. Astrophysics and Space Science, 2007, 308, 493-497.	1.4	2
34	The ion H 3 + in a strong magnetic field. Astrophysics and Space Science, 2007, 308, 499-503.	1.4	2
35	The molecule H2 in a strong magnetic field revisited. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 265, 107545.	2.3	1
36	Superintegrability of (2n + 1)-body choreographies, n = 1,2,3,â€¦,âˆž on the algebraic lemniscate by Bernoulli (inverse problem of classical mechanics). International Journal of Modern Physics A, 2021, 36, 2150116.	1.5	1

#	Article	IF	Citations
37	Regge trajectories and the renormalization group. , 1998, , .		0
38	BOUND STATES FROM REGGE TRAJECTORIES IN A SCALAR MODEL. International Journal of Modern Physics A, 2001, 16, 4377-4400.	1.5	0
39	Solvability of F4Quantum Integrable Systems. European Physical Journal D, 2003, 53, 1061-1067.	0.4	0
40	H₂⁺in a weak magnetic field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 045101.	1.5	0