

# Babatunde James Falaye

## List of Publications by Year in descending order

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45  
papers

1,259  
citations

331259

21  
h-index

377514

34  
g-index

46  
all docs

46  
docs citations

46  
times ranked

454  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamic properties and the approximate solutions of the Schrödinger equation with the shifted Deng-Fan potential model. <i>Molecular Physics</i> , 2014, 112, 127-141.	0.8	113
2	Nonrelativistic molecular models under external magnetic and AB flux fields. <i>Annals of Physics</i> , 2015, 353, 282-298.	1.0	90
3	Bound states of spatially dependent mass Dirac equation with the Eckart potential including Coulomb tensor interaction. <i>European Physical Journal Plus</i> , 2014, 129, 1.	1.2	76
4	Fisher information for the position-dependent mass Schrödinger system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 267-271.	0.9	68
5	Approximate analytical solutions to relativistic and nonrelativistic Pöschl-Teller potential with its thermodynamic properties. <i>Chemical Physics</i> , 2013, 421, 84-95.	0.9	66
6	Bound state solutions of the Manning-Rosen potential. <i>Canadian Journal of Physics</i> , 2013, 91, 98-104.	0.4	66
7	Eigensolution techniques, their applications and Fisher's information entropy of the Tietz-Wei diatomic molecular model. <i>Physica Scripta</i> , 2014, 89, 115204.	1.2	65
8	Formula Method for Bound State Problems. <i>Few-Body Systems</i> , 2015, 56, 63-78.	0.7	58
9	Arbitrary $\alpha$ -State Solutions of the Hyperbolic Potential by the Asymptotic Iteration Method. <i>Few-Body Systems</i> , 2012, 53, 557-562.	0.7	50
10	Joint remote state preparation (JRSP) of two-qubit equatorial state in quantum noisy channels. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 581-587.	0.9	47
11	Approximate Eigensolutions of the Deformed Woods-Saxon Potential via AIM. <i>Chinese Physics Letters</i> , 2013, 30, 020305.	1.3	38
12	Approximate relativistic bound states of a particle in Yukawa field with Coulomb tensor interaction. <i>Physica Scripta</i> , 2013, 87, 035002.	1.2	35
13	Any $\alpha$ -state solutions of the Eckart potential via asymptotic iteration method. <i>Open Physics</i> , 2012, 10, .	0.8	33
14	Semi-exact solutions to position-dependent mass Schrödinger problem with a class of hyperbolic potential $V \tanh(ax)$ . <i>European Physical Journal Plus</i> , 2016, 131, 1.	1.2	30
15	Approximate Solutions of the Schrödinger Equation with the Hyperbolic Potential: Supersymmetric Approach. <i>Few-Body Systems</i> , 2014, 55, 61-67.	0.7	29
16	The Klein-Gordon equation with ring-shaped potentials: Asymptotic iteration method. <i>Journal of Mathematical Physics</i> , 2012, 53, .	0.5	28
17	Exact solutions to solitonic profile mass Schrödinger problem with a modified Pöschl-Teller potential. <i>Modern Physics Letters A</i> , 2016, 31, 1650017.	0.5	28
18	Hydrogen atom in a quantum plasma environment under the influence of Aharonov-Bohm flux and electric and magnetic fields. <i>Physical Review E</i> , 2016, 93, 053201.	0.8	26

#	ARTICLE	IF	CITATIONS
19	Exact solution of Schrödinger equation with $q$ -deformed quantum potentials using Nikiforov-Uvarov method. Chinese Physics B, 2013, 22, 110301.	0.7	25
20	JRSP of three-particle state via three tripartite GHZ class in quantum noisy channels. International Journal of Quantum Information, 2016, 14, 1650034.	0.6	25
21	Information-theoretic measures for a solitonic profile mass Schrödinger equation with a squared hyperbolic cosecant potential. Physica A: Statistical Mechanics and Its Applications, 2016, 446, 152-157.	1.2	23
22	Quantum teleportation and information splitting via four-qubit cluster state and a Bell state. Frontiers of Physics, 2017, 12, 1.	2.4	21
23	Exact Solutions of the Klein-Gordon Equation for Spherically Asymmetrical Singular Oscillator. Few-Body Systems, 2012, 53, 563-571.	0.7	20
24	Dirac bound states of anharmonic oscillator in external fields. Annals of Physics, 2014, 341, 153-163.	1.0	17
25	$\hat{P}$ state solutions for the fermionic massive spin- $\frac{1}{2}$ particles interacting with double ring-shaped Kratzer and oscillator potentials. International Journal of Modern Physics E, 2014, 23, 1450005.	0.4	16
26	Relativistic symmetries with the trigonometric Pöschl-Teller potential plus Coulomb-like tensor interaction. Chinese Physics B, 2013, 22, 060305.	0.7	15
27	Spectroscopic study of some diatomic molecules via the proper quantization rule. Journal of Mathematical Chemistry, 2015, 53, 1325-1350.	0.7	15
28	SOLUTIONS OF THE DIRAC EQUATION WITH THE SHIFTED DENG-FAN POTENTIAL INCLUDING YUKAWA-LIKE TENSOR INTERACTION. International Journal of Modern Physics E, 2013, 22, 1350062.	0.4	14
29	Analysis of quantum-mechanical states of the ring-shaped Mie-type diatomic molecular model via the Fisher's information. Journal of Theoretical and Computational Chemistry, 2015, 14, 1550036.	1.8	13
30	Energy spectrum for trigonometric Pöschl-Teller potential. Canadian Journal of Physics, 2012, 90, 1259-1265.	0.4	11
31	Investigating quantum metrology in noisy channels. Scientific Reports, 2017, 7, 16622.	1.6	11
32	Relativistic symmetries in Yukawa-type interactions with Coulomb-like tensor. Applied Mathematics and Computation, 2013, 225, 775-786.	1.4	10
33	Hydrogen atom in a laser-plasma. Laser Physics Letters, 2016, 13, 116003.	0.6	10
34	Alpha decay study of Thorium isotopes using double folding model with NN interactions derived from relativistic mean field theory. Nuclear Physics A, 2021, 1015, 122311.	0.6	10
35	Massive fermions interacting via a harmonic oscillator in the presence of a minimal length uncertainty relation. International Journal of Modern Physics E, 2015, 24, 1550087.	0.4	9
36	Energy States of Some Diatomic Molecules: The Exact Quantisation Rule Approach. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2015, 70, 85-90.	0.7	7

#	ARTICLE	IF	CITATIONS
37	Nonrelativistic and relativistic bound state solutions of the molecular Tietz potential via the improved asymptotic iteration method. <i>Canadian Journal of Chemistry</i> , 2014, 92, 215-220.	0.6	6
38	Effect of Oblateness, Radiation and a Circular Cluster of Material Points on the Stability of Equilibrium Points in the Restricted Four-Body Problem. <i>Few-Body Systems</i> , 2015, 56, 29-40.	0.7	5
39	Triangular libration points in the R3BP under combined effects of oblateness, radiation and power-law profile. <i>Advances in Space Research</i> , 2016, 57, 189-201.	1.2	5
40	Two Approximate Analytic Eigensolutions of the Hellmann Potential with any Arbitrary Angular Momentum. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2013, 68, 701-708.	0.7	4
41	Probing quantum Fisher information of an open Dirac system with Hawking effect in the Schwarzschild black hole. <i>Laser Physics</i> , 2020, 30, 115206.	0.6	4
42	A charged spinless particle in scalar-vector harmonic oscillators with uniform magnetic and Aharonov-Bohm flux fields. <i>Journal of the Association of Arab Universities for Basic and Applied Sciences</i> , 2014, 16, 1-10.	1.0	3
43	An electron of helium atom under a high-intensity laser field. <i>Laser Physics</i> , 2017, 27, 026004.	0.6	3
44	Entanglement fidelity for electron-electron interaction in strongly coupled semiclassical plasma and under external fields. <i>Laser Physics Letters</i> , 2019, 16, 045204.	0.6	3
45	Energies of some halogen molecules for the improved Tietz potential model. <i>Molecular Physics</i> , 2022, 120, .	0.8	3