

Orhan Bayrak

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5656774/publications.pdf>

Version: 2024-02-01

45
papers

1,323
citations

430874

18
h-index

345221

36
g-index

45
all docs

45
docs citations

45
times ranked

336
citing authors

#	ARTICLE	IF	CITATIONS
1	Exact analytical solutions to the Kratzer potential by the asymptotic iteration method. International Journal of Quantum Chemistry, 2007, 107, 540-544.	2.0	188
2	Anyl-state solutions of the Hulth�n potential by the asymptotic iteration method. Journal of Physics A, 2006, 39, 11521-11529.	1.6	134
3	Arbitrary ell-state solutions of the rotating Morse potential by the asymptotic iteration method. Journal of Physics A, 2006, 39, 6955-6963.	1.6	123
4	\hat{I}^p state solutions of the Dirac equation for the Eckart potential with pseudospin and spin symmetry. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 065308.	2.1	113
5	Bound state solutions of the Hulth�n potential by using the asymptotic iteration method. Physica Scripta, 2007, 76, 92-96.	2.5	86
6	An approximate solution of Dirac-Hulth�n problem with pseudospin and spin symmetry for any \hat{I}^p state. Journal of Mathematical Physics, 2007, 48, 082302.	1.1	75
7	The pseudospin symmetric solution of the Morse potential for any \hat{I}^p state. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 11119-11127.	2.1	72
8	Solution of the radial Schr�dinger equation for the potential family using the asymptotic iteration method. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 537-544.	1.5	50
9	Effect of nuclear deformation on $\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle mml:mi>\hat{I}^{\pm} \langle /mml:mi> \langle /mml:math>$ -decay half-lives. Physical Review C, 2012, 85, .	2.9	44
10	Analytical solutions to the Hulth�n and the Morse potentials by using the asymptotic iteration method. Computational and Theoretical Chemistry, 2007, 802, 17-21.	1.5	42
11	The energy eigenvalues of the Kratzer potential in the presence of a magnetic field. European Physical Journal D, 2012, 66, 1.	1.3	34
12	Exact Solutions of Klein-Gordon Equation with Scalar and Vector Rosen-Morse-Type Potentials. Chinese Physics Letters, 2008, 25, 2754-2757.	3.3	31
13	Application of the asymptotic iteration method to the exponential cosine screened Coulomb potential. International Journal of Quantum Chemistry, 2007, 107, 1040-1045.	2.0	30
14	Role of the cluster deformations in explaining the exotic decay half-lives. European Physical Journal A, 2012, 48, 1.	2.5	26
15	The relativistic treatment of spin-0 particles under the rotating Morse oscillator. Journal of Mathematical Physics, 2010, 51, 112301.	1.1	25
16	THE ENERGY EIGENVALUES OF THE TWO DIMENSIONAL HYDROGEN ATOM IN A MAGNETIC FIELD. International Journal of Modern Physics E, 2006, 15, 1263-1271.	1.0	24
17	A COMPARATIVE STUDY OF THE $^{12}\text{C}+^{24}\text{Mg}$ SYSTEM WITH DEEP AND SHALLOW POTENTIALS. International Journal of Modern Physics E, 2005, 14, 663-673.	1.0	21
18	Corrected analytical solution of the generalized Woods-Saxon potential for arbitrary ℓ states. Physica Scripta, 2015, 90, 015302.	2.5	21

#	ARTICLE	IF	CITATIONS
19	Scattering, bound, and quasi-bound states of the generalized symmetric Woods-Saxon potential. Journal of Mathematical Physics, 2016, 57, .	1.1	18
20	Bound states of the Dirac equation for the generalized Woods-Saxon potential in pseudospin and spin symmetry limits. Modern Physics Letters A, 2014, 29, 1450180.	1.2	16
21	Exact Solutions of Klein-Gordon Equation with Exponential Scalar and Vector Potentials. International Journal of Theoretical Physics, 2008, 47, 1612-1617.	1.2	13
22	Analytical Solution of the Schrödinger Equation for Makarov Potential with any ℓ Angular Momentum. International Journal of Theoretical Physics, 2008, 47, 3005-3014.	1.2	12
23	Effect of the velocity-dependent potentials on the energy eigenvalues of the Morse potential. Open Physics, 2012, 10, .	1.7	12
24	Exact Analytical Solution of the Klein-Gordon Equation in the Generalized Woods-Saxon Potential. Communications in Theoretical Physics, 2015, 64, 259-262.	2.5	12
25	Binary cluster model calculations for ^{20}Ne and ^{44}Ti nuclei. Modern Physics Letters A, 2017, 32, 1750050.	1.2	12
26	Binding energy of the donor impurities in $\text{GaAs}_{1-x}\text{Al}_x$ quantum well wires with Morse potential in the presence of electric and magnetic field. Chinese Physics B, 2016, 25, 100302.	1.4	11
27	Cluster states in ^{16}O . Annals of Physics, 2018, 391, 263-277.	2.8	10
28	\hat{I}_{\pm} folding cluster model for \hat{I}_{\pm} -radioactivity. European Physical Journal A, 2015, 51, 1.	2.5	9
29	ARBITRARY ℓ -STATE SOLUTION OF THE HELLMANN POTENTIAL. Journal of Theoretical and Computational Chemistry, 2007, 06, 893-903.	1.8	8
30	AN ALTERNATIVE ACCURATE SOLUTION OF THE EXPONENTIAL COSINE SCREENED COULOMB POTENTIAL. International Journal of Modern Physics C, 2007, 18, 1443-1451.	1.7	7
31	Effect of the Velocity-Dependent Potentials on the Bound State Energy Eigenvalues. Chinese Physics Letters, 2011, 28, 040304.	3.3	7
32	Massive Dirac equation in asymmetric Hulthén potential. Journal of Mathematical Physics, 2013, 54, .	1.1	7
33	A new simple model for the \hat{I}_{\pm} -decay. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 025102.	3.6	7
34	The examination of the $^{12}\text{C} + ^{24}\text{Mg}$ elastic scattering around the Coulomb barrier. Physics of Atomic Nuclei, 2005, 68, 1153-1159.	0.4	6
35	Semiclassical description of the $^6\text{He} + ^{12}\text{C}$ elastic scattering. Physics of Atomic Nuclei, 2011, 74, 13-18.	0.4	4
36	Supersymmetric solution of Schrödinger equation by using the asymptotic iteration method. Annalen Der Physik, 2012, 524, 353-359.	2.4	3

#	ARTICLE	IF	CITATIONS
37	Bound state solutions of the Klein-Gordon equation with energy-dependent potentials. Modern Physics Letters A, 2021, 36, 2150016.	1.2	3
38	The influence of nuclear deformations on the exotic cluster decay half-lives. Journal of Physics: Conference Series, 2015, 590, 012045.	0.4	2
39	Effect of external fields on the energies of hydrogenic donor with the anharmonic confinement potential. Physica B: Condensed Matter, 2015, 456, 339-343.	2.7	2
40	Phase shift analysis of the ${}^6\text{He}+{}^{208}\text{Pb}$ and the ${}^6\text{He}+{}^{197}\text{Au}$ systems. Open Physics, 2012, 10, .	1.7	1
41	Elastic scattering analysis of ${}^{12}\text{C}+{}^{24}\text{Mg}$ by WKB method. Turkish Journal of Physics, 2017, 41, 520-525.	1.1	1
42	Pocket resonances in low-energy antineutron reactions with nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 817, 136301.	4.1	1
43	Analytical Solution of the Morse and the Hulthén Potentials by using Asymptotic iteration Method. AIP Conference Proceedings, 2007, , .	0.4	0
44	Kappa State Solutions of Dirac-Hulthén and Dirac-Eckart Problems with Pseudospin and Spin Symmetry. , 2008, , .		0
45	RADIAL SENSITIVITY OF THE ELASTIC SCATTERING AROUND THE COULOMB BARRIER ENERGIES FOR WEAKLY-BOUND AND HALO NUCLEI. Modern Physics Letters A, 2012, 27, 1250118.	1.2	0