

# Guo-Hua Sun

## List of Publications by Year in descending order

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68  
papers

2,090  
citations

257450

24  
h-index

243625

44  
g-index

69  
all docs

69  
docs citations

69  
times ranked

482  
citing authors

#	ARTICLE	IF	CITATIONS
1	Series solutions of the Schrödinger equation with position-dependent mass for the Morse potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 322, 290-297.	2.1	181
2	Analytical approximations to the $k$ -wave solutions of the Schrödinger equation with the Eckart potential. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 10535-10540.	2.1	162
3	Exactly complete solutions of the Schrödinger equation with a spherically harmonic oscillatory ring-shaped potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 704-708.	2.1	122
4	THE SOLUTION OF THE SECOND PÄ-SCHLÄ“TELLER LIKE POTENTIAL BY NIKIFOROVÄ“UVAROV METHOD. International Journal of Modern Physics E, 2010, 19, 123-129.	1.0	87
5	Quantum information entropies for position-dependent mass Schrödinger problem. Annals of Physics, 2014, 348, 153-160.	2.8	83
6	Shannon information entropy for a hyperbolic double well potential. International Journal of Quantum Chemistry, 2015, 115, 891-899.	2.0	77
7	Quantum information entropies for a squared tangent potential well. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 124-130.	2.1	72
8	The series solutions of the non-relativistic equation with the Morse potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 314, 261-266.	2.1	64
9	Quantum information entropies for an asymmetric trigonometric Rosen-Morse potential. Annalen Der Physik, 2013, 525, 934-943.	2.4	64
10	Quantum information entropy for a hyperbolical potential function. Physica Scripta, 2015, 90, 035205.	2.5	61
11	An algebraic approach to the ring-shaped non-spherical oscillator. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 328, 299-305.	2.1	60
12	Shannon information entropy for an infinite circular well. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 1402-1408.	2.1	59
13	Group theory approach to the Dirac equation with a Coulomb plus scalar potential in D+1 dimensions. Journal of Mathematical Physics, 2003, 44, 4467.	1.1	56
14	Entanglement measures of W-state in noninertial frames. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, 93-105.	4.1	56
15	Quantum information entropies of the eigenstates for the PÄ-schlÄ“Teller-like potential. Chinese Physics B, 2013, 22, 050302.	1.4	55
16	Genuine multipartite concurrence for entanglement of Dirac fields in noninertial frames. Physical Review A, 2018, 98, .	2.5	54
17	Exact solutions and ladder operators for a new anharmonic oscillator. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 340, 94-103.	2.1	48
18	Quantum information entropies of the eigenstates for a symmetrically trigonometric Rosen-Morse potential. Physica Scripta, 2013, 87, 045003.	2.5	47

#	ARTICLE	IF	CITATIONS
19	Joint remote state preparation (JRSP) of two-qubit equatorial state in quantum noisy channels. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 581-587.	2.1	47
20	Relativistic Treatment of Spinless Particles Subject to a Tietz-Wei Oscillator. Communications in Theoretical Physics, 2012, 58, 195-197.	2.5	34
21	Semi-exact solutions to position-dependent mass Schrödinger problem with a class of hyperbolic potential $V_0 \tanh(ax)$ . European Physical Journal Plus, 2016, 131, 1.	2.6	30
22	Exact solutions to solitonic profile mass Schrödinger problem with a modified Pöschl-Teller potential. Modern Physics Letters A, 2016, 31, 1650017.	1.2	28
23	New findings for two new type sine hyperbolic potentials. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 270-275.	2.1	28
24	Hydrogen atom in a quantum plasma environment under the influence of Aharonov-Bohm flux and electric and magnetic fields. Physical Review E, 2016, 93, 053201.	2.1	26
25	Exact solutions of the 1D Schrödinger equation with the Mathieu potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126480.	2.1	26
26	JRSP of three-particle state via three tripartite GHZ class in quantum noisy channels. International Journal of Quantum Information, 2016, 14, 1650034.	1.1	25
27	Quantum information measures of infinite spherical well. Modern Physics Letters A, 2018, 33, 1850088.	1.2	23
28	ARBITRARY I-WAVE SOLUTIONS OF THE SCHRÖDINGER EQUATION FOR THE SCREEN COULOMB POTENTIAL. International Journal of Modern Physics E, 2013, 22, 1350036.	1.0	22
29	Exact solutions of a quartic potential. Modern Physics Letters A, 2019, 34, 1950208.	1.2	22
30	EXACT SOLUTIONS OF DIRAC EQUATION FOR A NEW SPHERICALLY ASYMMETRICAL SINGULAR OSCILLATOR. Modern Physics Letters A, 2010, 25, 2849-2857.	1.2	21
31	Quantum teleportation and information splitting via four-qubit cluster state and a Bell state. Frontiers of Physics, 2017, 12, 1.	5.0	21
32	THE HIDDEN SYMMETRY FOR A QUANTUM SYSTEM WITH A PÖSCHL-TELLER-LIKE POTENTIAL. International Journal of Modern Physics E, 2003, 12, 809-815.	1.0	20
33	Entanglement property of the Werner state in accelerated frames. Quantum Information Processing, 2019, 18, 1.	2.2	20
34	Tetrapartite entanglement features of W-Class state in uniform acceleration. Frontiers of Physics, 2020, 15, 1.	5.0	20
35	Radial position-momentum uncertainties for the infinite circular well and Fisher entropy. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 1752-1759.	2.1	19
36	Concurrence of three Jaynes-Cummings systems. Quantum Information Processing, 2018, 17, 1.	2.2	18

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37	Exact solutions of the sine hyperbolic type potential. Journal of Mathematical Chemistry, 2019, 57, 1924-1931.	1.5	18
38	Shannon and Fisher entropy measures for a parity-restricted harmonic oscillator. Laser Physics, 2017, 27, 125201.	1.2	17
39	Semi-exact Solutions of Konwent Potential. Communications in Theoretical Physics, 2019, 71, 231.	2.5	16
40	Tripartite Entanglement Measures of Generalized GHZ State in Uniform Acceleration <sup>*</sup> . Chinese Physics Letters, 2019, 36, 100301.	3.3	16
41	New type shift operators for circular well potential in two dimensions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 4112-4114.	2.1	11
42	Hydrogen atom in a laser-plasma. Laser Physics Letters, 2016, 13, 116003.	1.4	10
43	Semiexact Solutions of the Razavy Potential. Advances in High Energy Physics, 2018, 2018, 1-7.	1.1	10
44	Analytical traveling-wave solutions to a generalized Gross-Pitaevskii equation with some new time and space varying nonlinearity coefficients and external fields. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2978-2985.	2.1	9
45	Shannon information entropies for rectangular multiple quantum well systems with constant total lengths*. Chinese Physics B, 2018, 27, 040301.	1.4	9
46	Tetrapartite entanglement measures of GHZ state with nonuniform acceleration. Optik, 2020, 201, 163487.	2.9	9
47	Shannon entropies of asymmetric multiple quantum well systems with a constant total length. European Physical Journal Plus, 2021, 136, 1.	2.6	9
48	NEW TYPE SHIFT OPERATORS FOR THREE-DIMENSIONAL INFINITE WELL POTENTIAL. Modern Physics Letters A, 2011, 26, 351-358.	1.2	8
49	Exact Solutions of the Razavy Cosine Type Potential. Advances in High Energy Physics, 2018, 2018, 1-5.	1.1	8
50	Radial position-momentum uncertainties for the infinite spherical well and the Fisher entropy. Laser Physics Letters, 2018, 15, 115202.	1.4	8
51	Exact solutions of the rigid rotor in the electric field. International Journal of Quantum Chemistry, 2020, 120, e26336.	2.0	8
52	Shannon entropy of asymmetric rectangular multiple well with unequal width barrier. Results in Physics, 2022, 33, 105109.	4.1	8
53	Quantum Information Entropies on Hyperbolic Single Potential Wells. Entropy, 2022, 24, 604.	2.2	8
54	Exact solutions of a nonpolynomial oscillator related to isotonic oscillator. European Physical Journal Plus, 2019, 134, 1.	2.6	7

#	ARTICLE	IF	CITATIONS
55	Morse Potential in the Momentum Representation. Communications in Theoretical Physics, 2012, 58, 815-818.	2.5	6
56	Exact solutions of the harmonic oscillator plus non-polynomial interaction. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200050.	2.1	6
57	Exact solution of rigid planar rotor in external electric field. Results in Physics, 2022, 34, 105330.	4.1	6
58	Teleportation with two-dimensional electron gas formed at the interface of a GaAs heterostructure. Laser Physics, 2017, 27, 035201.	1.2	4
59	Semi-exact solutions of sextic potential plus a centrifugal term. Journal of Mathematical Chemistry, 2020, 58, 2197-2203.	1.5	4
60	Entanglement measures of a pentapartite W-class state in the noninertial frame. Quantum Information Processing, 2022, 21, 1.	2.2	4
61	An electron of helium atom under a high-intensity laser field. Laser Physics, 2017, 27, 026004.	1.2	3
62	Exact solutions of an asymmetric double well potential. Journal of Mathematical Chemistry, 2022, 60, 605.	1.5	3
63	Constructions of the Soluble Potentials for the Nonrelativistic Quantum System by Means of the Heun Functions. Advances in High Energy Physics, 2018, 2018, 1-8.	1.1	2
64	Surface Effects in the Hydrogen Atom Confined by Dihedral Angles. , 2014, , 1-29.		2
65	Comment on "Electron in the Field of a Molecule with an Electric Dipole Moment" Physical Review Letters, 2010, 104, 118901.	7.8	1
66	A New Kind of Shift Operators for Infinite Circular and Spherical Wells. Advances in Mathematical Physics, 2014, 2014, 1-7.	0.8	1
67	Exact solutions of the 2D Schrödinger equation with the inverse square root potential. Laser Physics, 2022, 32, 035202.	1.2	1
68	Alpha-Beta Hybrid Quantum Associative Memory Using Hamming Distance. Entropy, 2022, 24, 789.	2.2	0