Fakir Chand

List of Publications by Year
in descending order

58 papers	901 citations	19 h-index 394421	28 g-index 501196
59 all docs	59 docs citations	59 times ranked	450 citing authors

#	Article	IF	Citations
1	Structural, morphological, electrical and dielectric properties of Mn doped CeO2. Journal of Alloys and Compounds, 2016, 672, 543-548.	5.5	75
2	Exact solutions of the Bogoyavlenskii equation using the multiple <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si5.gif" display="inline" overflow="scroll"><mml:mrow><mml:mo>(</mml:mo><mml:mfrac><mml:mrow><mml:msup><mml:mrow><mml:mi>G</mml:mi></mml:mi> method. Computers and Mathematics With Applications, 2012, 64, 2850-2859.	2.7	60
3	Asymptotic Study to the N-Dimensional Radial Schrödinger Equation for the Quark-Antiquark System. Communications in Theoretical Physics, 2013, 59, 528-532.	2.5	53
4	Optical solitary wave solutions for the higher order nonlinear Schrödinger equation with self-steepening and self-frequency shift effects. Optics and Laser Technology, 2013, 54, 265-273.	4.6	42
5	Structural, optical and magnetic properties of N ion implanted CeO_2 thin films. RSC Advances, 2017, 7, 9160-9168.	3.6	41
6	Series solutions to the N-dimensional radial Schrödinger equation for the quark–antiquark interaction potential. Physica Scripta, 2012, 85, 055008.	2.5	39
7	Analytical spatiotemporal soliton solutions to (3+1)-dimensional cubic-quintic nonlinear Schrödinger equation with distributed coefficients. Journal of Mathematical Physics, 2012, 53, .	1.1	37
8	Mass Spectra of Heavy and Light Mesons Using Asymptotic Iteration Method. Communications in Theoretical Physics, 2018, 70, 179.	2.5	36
9	Bound state solutions to the Schrödinger equation for some diatomic molecules. Pramana - Journal of Physics, 2018, 91, 1.	1.8	34
10	Exact solutions of nonlinear diffusion reaction equation with quadratic, cubic and quartic nonlinearities. Indian Journal of Physics, 2012, 86, 819-827.	1.8	32
11	Exact solutions of some physical models using the (G′/G)-expansion method. Pramana - Journal of Physics, 2012, 78, 513-529.	1.8	30
12	DARK AND BRIGHT SOLITARY WAVE SOLUTIONS OF THE HIGHER ORDER NONLINEAR SCHRÖDINGER EQUATION WITH SELF-STEEPENING AND SELF-FREQUENCY SHIFT EFFECTS. Journal of Nonlinear Optical Physics and Materials, 2013, 22, 1350001.	1.8	29
13	Exact solutions of nonlinear diffusion-reaction equations. Indian Journal of Physics, 2012, 86, 129-136.	1.8	28
14	Applications of extended F-expansion and projective Ricatti equation methods to (2+1)-dimensional soliton equations. AIP Advances, 2013, 3, .	1.3	26
15	Magnetic and electronic structures of Co ion implanted CeO2 thin films. Applied Surface Science, 2018, 452, 217-222.	6.1	25
16	Analytical solutions to the Schrodinger equation for a generalized Cornell potential and its applications to diatomic molecules and heavy mesons. Modern Physics Letters A, 2022, 37, .	1.2	25
17	Soliton solutions of some nonlinear evolution equations with time-dependent coefficients. Pramana - Journal of Physics, 2013, 80, 361-367.	1.8	23
18	Exact traveling wave solutions of some nonlinear evolution equations. Iranian Physical Journal, 2014, 8, 1.	1.2	23

#	ARTICLE	IF	CITATIONS
19	Exact travelling wave solutions of some nonlinear equations by -expansion method. Applied Mathematics and Computation, 2010, 216, 2596-2612.	2.2	21
20	The solution of the Schrödinger equation for complex Hamiltonian systems in two dimensions. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 10171-10182.	2.1	14
21	1-Soliton solutions of complex modified KdV equation with time-dependent coefficients. Indian Journal of Physics, 2013, 87, 909-912.	1.8	13
22	Solution of Schrödinger Equation for Two-Dimensional Complex Quartic Potentials. Communications in Theoretical Physics, 2009, 51, 397-406.	2.5	12
23	Energy spectra of a two dimensional parabolic quantum dot in an external field. Indian Journal of Physics, 2018, 92, 145-150.	1.8	11
24	Energy Spectra of the Coulomb Perturbed Potential in N-Dimensional Hilbert Space. Chinese Physics Letters, 2012, 29, 060306.	3.3	10
25	Enhancement of ferromagnetism in C ion implanted CeO_2 thin films. Materials Research Express, 2017, 4, 036403.	1.6	10
26	Dynamics of Shallow Water Waves with Various Boussinesq Equations. Acta Physica Polonica A, 2017, 131, 275-282.	0.5	10
27	Energy eigenvalue spectra and applications of the sextic and the Coulomb perturbed potentials. Physica Scripta, 2022, 97, 055301.	2.5	10
28	Construction of exact complex dynamical invariant of a two-dimensional classical system. Pramana - Journal of Physics, 2006, 67, 999-1009.	1.8	9
29	Construction of exact dynamical invariants of two-dimensional classical system. Pramana - Journal of Physics, 2006, 66, 601-607.	1.8	9
30	The solution of the Schrödinger equation for coupled quadratic and quartic potentials in two dimensions. Pramana - Journal of Physics, 2009, 72, 647-654.	1.8	9
31	Complex dynamical invariants for two-dimensional nonhermitian Hamiltonian systems. Canadian Journal of Physics, 2012, 90, 151-157.	1.1	9
32	Chirped and chirpfree soliton solutions of generalized nonlinear Schrödinger equation with distributed coefficients. Optik, 2014, 125, 2938-2949.	2.9	9
33	Construction of new traveling and solitary wave solutions of a nonlinear PDE characterizing the nonlinear low-pass electrical transmission lines. Physica Scripta, 2021, 96, 085215.	2.5	9
34	Effect of the magnetic field on the energy spectra of a quantum dot system. Indian Journal of Physics, 2020, 94, 1705-1709.	1.8	8
35	Fourth-order constants of motion for time independent classical and quantum systems in three dimensions. Canadian Journal of Physics, 2010, 88, 165-174.	1.1	7
36	Searching critical-point nuclei in Te- and Xe-isotopic chains using sextic oscillator potential. Physics of Atomic Nuclei, 2012, 75, 168-172.	0.4	7

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37	A dynamical study of certain nonlinear diffusion–reaction equations with a nonlinear convective flux term. Pramana - Journal of Physics, 2019, 92, 1.	1.8	7
38	Complex dynamical invariants for two-dimensional complex potentials. Pramana - Journal of Physics, 2012, 79, 173-183.	1.8	6
39	Exact solutions to three-dimensional time-dependent Schrödinger equation. Pramana - Journal of Physics, 2007, 68, 891-900.	1.8	5
40	Solutions to the N-dimensional radial Schrödinger equation for the potential ar 2 + br �~ c/r. Pramana - Journal of Physics, 2014, 83, 39-48.	1.8	5
41	Exact fourth order invariants for one-dimensional time-dependent Hamiltonian systems. Indian Journal of Physics, 2015, 89, 709-712.	1.8	5
42	Reply to Comment on 'Series solutions to theN-dimensional radial Schrödinger equation for the quark–antiquark interaction potential'. Physica Scripta, 2012, 86, 027002.	2.5	4
43	Complex integrals for 3-dimensional non-hermitian Hamiltonian systems. Chinese Journal of Physics, 2017, 55, 1170-1180.	3.9	4
44	Solution of an analogous Schrödinger equation for % MathType!MTEF!2!1!+- % feaagaart1ev2aaatCvAUfeBSjuyZL2yd9gzLbvyNv2CaerbuLwBLn % hiov2DGi1BTfMBaeXatLxBI9gBqj3BWbIqubWexLMBb5Oujbqegm0B % 1jxALjharqqtubsr4rNCHbGeaGqiVu0Je9sqqrpepC0xbbL8F4rqqr % Ffpeea0xe9Lq-Jc9vqaqpepm0xbba9pwe9Q8fs0-yqaqpepae9pg0F % irpepeKkFr0xfr-xfr-xb9adbaqaaeGaciGaaiaabeqaamaabaabaa % GcbaWefv3ySLgznfgDOfdarCqr1ngBPrgin	1.8	3
45	Classical invariants for non-Hermitian anharmonic potentials. Canadian Journal of Physics, 2020, 98, 1004-1008.	1.1	3
46	Mass spectra and thermodynamic properties of some heavy and light mesons. Pramana - Journal of Physics, 2022, 96, .	1.5	3
47	Structural and dielectric properties of Cu doped CeO2. AIP Conference Proceedings, 2016, , .	0.4	2
48	A theoretical study of perovskite material for solar cell application. AIP Conference Proceedings, 2018, , .	0.4	2
49	Dynamical invariants for time-dependent real and complex Hamiltonian systems. Journal of Mathematical Physics, 2021, 62, .	1.1	2
50	Eigenvalue spectra of a PT-symmetric coupled quartic potential in two dimensions. Pramana - Journal of Physics, 2010, 75, 599-605.	1.8	1
51	Magnetic and electronic structures of Ag ion irradiated CeO2 thin films. AIP Conference Proceedings, 2019, , .	0.4	1
52	A theoretical modeling of the Cu(In, Ga)Se2 solar cell. AIP Conference Proceedings, 2019, , .	0.4	1
53	Integrability of a time dependent coupled harmonic oscillator in higher dimensions. Discontinuity, Nonlinearity, and Complexity, 2018, 7, 81-94.	0.2	1
54	Complex invariants for some time-independent and time-dependent classical systems. Reports on Mathematical Physics, 2021, 88, 399-418.	0.8	1

#	Article	IF	Citations
55	ELECTRICAL AND OPTICAL NONLINEARITY IN VACUUM-DEPOSITED THIN FILMS OF POLY[N-(4-BENZOYLPHENYL)-2-METHYLACRYLAMIDE]. Journal of Nonlinear Optical Physics and Materials, 2004, 13, 65-79.	1.8	0
56	Solutions of the SchrÃ¶dinger Equation for -Symmetric Coupled Quintic Potentials in Two Dimensions. Communications in Theoretical Physics, 2011, 56, 419-422.	2.5	0
57	Effect of rose water on structural, optical and electrical properties of composites of reduced graphene oxideâ€"poly (vinyl alcohol) (PVA) grafted with silver nanoparticles. Materials Research Express, 2017, 4, 025021.	1.6	0
58	Tuning of LSPR of gold-silver alloy nanoparticles with their composition. AIP Conference Proceedings, 2019, , .	0.4	0