Amit Kumar

List of Publications by Year
in descending order

16 papers	744 citations	623734 14 h-index	940533 16 g-index
16 all docs	16 docs citations	16 times ranked	185 citing authors

#	Article	IF	Citations
1	Lie symmetry analysis for obtaining the abundant exact solutions, optimal system and dynamics of solitons for a higher-dimensional Fokas equation. Chaos, Solitons and Fractals, 2021, 142, 110507.	5.1	101
2	Lie symmetry reductions and group invariant solutions of (2Â+Â1)-dimensional modified Veronese web equation. Nonlinear Dynamics, 2019, 98, 1891-1903.	5.2	93
3	Lie symmetry analysis and generalized invariant solutions of (2+1)-dimensional dispersive long wave (DLW) equations. Physica Scripta, 2020, 95, 065207.	2.5	89
4	New exact solitary wave solutions of the strain wave equation in microstructured solids via the generalized exponential rational function method. European Physical Journal Plus, 2020, 135, 1.	2.6	86
5	Lie symmetries, optimal system and group-invariant solutions of the (3+1)-dimensional generalized KP equation. Chinese Journal of Physics, 2021, 69, 1-23.	3.9	74
6	Generalized fifth-order nonlinear evolution equation for the Sawada-Kotera, Lax, and Caudrey-Dodd-Gibbon equations in plasma physics: PainlevÃ© analysis and multi-soliton solutions. Physica Scripta, 2022, 97, 035201.	2.5	47
7	A (2+1)-dimensional generalized Hirotaâ€"Satsumaâ€"Ito equations: Lie symmetry analysis, invariant solutions and dynamics of soliton solutions. Results in Physics, 2021, 28, 104621.	4.1	41
8	Some more closed-form invariant solutions and dynamical behavior of multiple solitons for the (2+1)-dimensional rdDym equation using the Lie symmetry approach. Results in Physics, 2021, 24, 104201.	4.1	39
9	Abundant exact closed-form solutions and solitonic structures for the double-chain deoxyribonucleic acid (DNA) model. Brazilian Journal of Physics, 2021, 51, 1043-1068.	1.4	36
10	Dynamical structures of solitons and some new types of exact solutions for the (2+1)-dimensional DJKM equation using Lie symmetry analysis. Modern Physics Letters B, 2020, 34, 2150015.	1.9	34
11	Abundant closed-form wave solutions and dynamical structures of soliton solutions to the (3+1)-dimensional BLMP equation in mathematical physics. Journal of Ocean Engineering and Science, 2022, 7, 178-187.	4.3	27
12	Group invariant solutions of (2+1)-dimensional rdDym equation using optimal system of Lie subalgebra. Physica Scripta, 2019, 94, 115202.	2.5	18
13	A study of Bogoyavlenskiiâ€™s (2+1)-dimensional breaking soliton equation: Lie symmetry, dynamical behaviors and closed-form solutions. Results in Physics, 2021, 29, 104793.	4.1	17
14	Evolutionary dynamics of solitary wave profiles and abundant analytical solutions to a (3+1)-dimensional burgers system in ocean physics and hydrodynamics. Journal of Ocean Engineering and Science, 2023, 8, 1-14.	4.3	17
15	Closed-form invariant solutions from the Lie symmetry analysis and dynamics of solitonic profiles for (2 + 1)-dimensional modified Heisenberg ferromagnetic system. Modern Physics Letters B, 2022, 36, .	1.9	13
16	Dynamical behaviors and abundant optical soliton solutions of the cold bosonic atoms in a zig-zag optical lattice model using two integral schemes. Mathematics and Computers in Simulation, 2022, 201, 254-274.	4.4	12