

# Amit Kumar

## List of Publications by Year in descending order

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