

Sachin Kumar

List of Publications by Year in descending order

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334
papers

12,216
citations

28274

55
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40979

93
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all docs

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docs citations

342
times ranked

10987
citing authors

#	ARTICLE	IF	CITATIONS
1	An insight on upgrading of biomass pyrolysis products and utilization: Current status and future prospect of biomass in India. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 6185-6203.	4.6	5
2	Production of first- and second-generation ethanol for use in alcohol-based hand sanitizers and disinfectants in India. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 7423-7440.	4.6	15
3	Artificial intelligence with big data analytics-based brain intracranial hemorrhage e-diagnosis using CT images. <i>Neural Computing and Applications</i> , 2023, 35, 16037-16049.	5.6	22
4	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
5	Construction of multiple new analytical soliton solutions and various dynamical behaviors to the nonlinear convection-diffusion-reaction equation with power-law nonlinearity and density-dependent diffusion via Lie symmetry approach together with a couple of integration approaches. <i>Journal of Ocean Engineering and Science</i> , 2023, 8, 226-237.	4.3	6
6	Invariance analysis for determining the closed-form solutions, optimal system, and various wave profiles for a (2+1)-dimensional weakly coupled B-Type Kadomtsev-Petviashvili equations. <i>Journal of Ocean Engineering and Science</i> , 2023, 8, 133-144.	4.3	13
7	Specific wave profiles and closed-form soliton solutions for generalized nonlinear wave equation in (3+1)-dimensions with gas bubbles in hydrodynamics and fluids. <i>Journal of Ocean Engineering and Science</i> , 2023, 8, 91-102.	4.3	23
8	A Review on Opportunities and Limitations of Membrane Bioreactor Configuration in Biofuel Production. <i>Applied Biochemistry and Biotechnology</i> , 2023, 195, 5497-5540.	2.9	5
9	Optimization of Dilute Acid Pretreatment for Enhanced Release of Fermentable Sugars from Sugarcane Bagasse and Validation by Biophysical Characterization. <i>Bioenergy Research</i> , 2023, 16, 416-434.	3.9	3
10	A comprehensive characterization of non-edible lignocellulosic biomass to elucidate their biofuel production potential. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 5087-5103.	4.6	25
11	The time fractional (m, n) system: invariant analysis, explicit solution, conservation laws and optical soliton. <i>Waves in Random and Complex Media</i> , 2022, 32, 1322-1337.	2.7	3
12	Invariant solutions of Einstein field equations in pure radiation fields. <i>Indian Journal of Physics</i> , 2022, 96, 1283-1288.	1.8	5
13	Deltamethrin and coumaphos resistance and role of biochemical mechanisms in camel tick, <i>Hyalomma dromedarii</i> collected from Haryana state of India. <i>International Journal of Tropical Insect Science</i> , 2022, 42, 269-274.	1.0	4
14	A cross-sectional study on prevalence of menstrual problems, lifestyle, mental health, and PCOS awareness among rural and urban population of Punjab, India. <i>Journal of Psychosomatic Obstetrics and Gynaecology</i> , 2022, 43, 349-358.	2.1	6
15	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
16	Symmetry analysis, closed-form invariant solutions and dynamical wave structures of the generalized (3+1)-dimensional breaking soliton equation using optimal system of Lie subalgebra. <i>Journal of Ocean Engineering and Science</i> , 2022, 7, 188-201.	4.3	22
17	On global behavior for complex soliton solutions of the perturbed nonlinear Schrödinger equation in nonlinear optical fibers. <i>Journal of Ocean Engineering and Science</i> , 2022, 7, 431-443.	4.3	30
18	Acaricidal activity of <i>Annona squamosa</i> L. seeds extracts against cattle tick, <i>Rhipicephalus microplus</i> . <i>International Journal of Tropical Insect Science</i> , 2022, 42, 1147-1151.	1.0	0

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19	Chebyshev spectral method for solving fuzzy fractional Fredholmâ€“Volterra integro-differential equation. <i>Mathematics and Computers in Simulation</i> , 2022, 192, 501-513.	4.4	17
20	Study of exact analytical solutions and various wave profiles of a new extended (2+1)-dimensional Boussinesq equation using symmetry analysis. <i>Journal of Ocean Engineering and Science</i> , 2022, 7, 475-484.	4.3	21
21	Neutrophil and remnant clearance in immunity and inflammation. <i>Immunology</i> , 2022, 165, 22-43.	4.4	30
22	Green Synthesis of Ag ₂ S Quantum Dots as Sensing Probe: An Optical Sensor for the Detection of Cholesterol. <i>Crystal Research and Technology</i> , 2022, 57, 2100067.	1.3	2
23	Abundant analytical soliton solutions and different wave profiles to the Kudryashov-Sinelshchikov equation in mathematical physics. <i>Journal of Ocean Engineering and Science</i> , 2022, 7, 565-577.	4.3	12
24	Analytical soliton solutions to the generalized (3+1)-dimensional shallow water wave equation. <i>Modern Physics Letters B</i> , 2022, 36, .	1.9	11
25	Doubly periodic wave structure of the modified Schrödinger equation with fractional temporal evolution. <i>Results in Physics</i> , 2022, 33, 105128.	4.1	11
26	A (2+1)-dimensional combined KdVâ€“mKdV equation: integrability, stability analysis and soliton solutions. <i>Nonlinear Dynamics</i> , 2022, 107, 2689-2701.	5.2	18
27	Brain Tumour Classification Using Noble Deep Learning Approach with Parametric Optimization through Metaheuristics Approaches. <i>Computers</i> , 2022, 11, 10.	3.3	32
28	A continuousâ€“discontinuous localizing gradient damage framework for failure analysis of quasi-brittle materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 390, 114434.	6.6	17
29	Brain Tumor Classification Using Dense Efficient-Net. <i>Axioms</i> , 2022, 11, 34.	1.9	72
30	Lie symmetry analysis, optimal system, exact solutions and dynamics of solitons of a (3+1)-dimensional generalised BKPâ€“Boussinesq equation. <i>Pramana - Journal of Physics</i> , 2022, 96, 1.	1.8	32
31	Detection of deltamethrin, cypermethrin and flumethrin efficacy against buffalo liceâ€“ <i>Haematopinus tuberculatus</i> . <i>Tropical Animal Health and Production</i> , 2022, 54, 66.	1.4	0
32	Analytical soliton solutions for cold bosonic atoms (CBA) in a zigzag optical lattice model employing efficient methods. <i>Modern Physics Letters B</i> , 2022, 36, .	1.9	16
33	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
34	Cubicâ€“Quartic Optical Soliton Perturbation with Differential Group Delay for the Lakshmananâ€“Porsezianâ€“Daniel Model by Lie Symmetry. <i>Symmetry</i> , 2022, 14, 224.	2.2	8
35	The integrable Boussinesq equation and its breathers, lump and soliton solutions. <i>Nonlinear Dynamics</i> , 2022, 107, 2703-2716.	5.2	45
36	Correlating Amino Acid Interaction with Graphene-Based Materials Regulating Cell Function. <i>Journal of the Indian Institute of Science</i> , 2022, 102, 639-651.	1.9	4

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37	An Imaging and Computational Algorithm for Efficient Identification and Quantification of Neutrophil Extracellular Traps. <i>Cells</i> , 2022, 11, 191.	4.1	10
38	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
39	Energy Aware Resource Optimization using Unified Metaheuristic Optimization Algorithm Allocation for Cloud Computing Environment. <i>Sustainable Computing: Informatics and Systems</i> , 2022, 35, 100686.	2.2	10
40	A novel and efficient method for obtaining Hirota's bilinear form for the nonlinear evolution equation in $(n+1)$ dimensions. <i>Partial Differential Equations in Applied Mathematics</i> , 2022, 5, 100274.	2.4	21
41	Some analytic and series solutions of integrable generalized Broer-Kaup system. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 7067-7074.	6.4	7
42	GENERALISED TWO-COMPONENT MODIFIED WEAKLY DISSIPATIVE DULLIN-GOTTWALD-HOLM SYSTEM: INVARIANCE ANALYSIS AND CONSERVATION LAWS. <i>Mathematical Modelling and Analysis</i> , 2022, 27, 101-116.	1.5	1
43	Symmetry reductions, generalized solutions and dynamics of wave profiles for the $(2+1)$ -dimensional system of Broer-Kaup-Kupershmidt (BKK) equations. <i>Mathematics and Computers in Simulation</i> , 2022, 196, 319-335.	4.4	24
44	Microflowers of Sn-Co-S derived from ultra-thin nanosheets for supercapacitor applications. <i>Journal of Energy Storage</i> , 2022, 49, 104084.	8.1	20
45	Numerical study of Zika model as a mosquito-borne virus with non-singular fractional derivative. <i>International Journal of Biomathematics</i> , 2022, 15, .	2.9	10
46	Soliton solutions of $(2+1)$ and $(3+1)$ -dimensional KdV and mKdV equations. <i>AIP Conference Proceedings</i> , 2022, , .	0.4	1
47	Analysis of miR-375-3p, miR-197-3p, and miR-15a-5p Expression and Their Clinical Relevance as Biomarkers in Lung Cancer. <i>Technology in Cancer Research and Treatment</i> , 2022, 21, 153303382210809.	1.9	9
48	Symmetries of optimal system, various closed-form solutions, and propagation of different wave profiles for the Boussinesq-Burgers system in ocean waves. <i>Physics of Fluids</i> , 2022, 34, .	4.0	43
49	Prophesying the Short-Term Dynamics of the Crude Oil Future Price by Adopting the Survival of the Fittest Principle of Improved Grey Optimization and Extreme Learning Machine. <i>Mathematics</i> , 2022, 10, 1121.	2.2	7
50	Lie Symmetries, Closed-Form Solutions, and Various Dynamical Profiles of Solitons for the Variable Coefficient $(2+1)$ -Dimensional KP Equations. <i>Symmetry</i> , 2022, 14, 597.	2.2	55
51	Some optical solutions to the higher-order nonlinear Schrödinger equation with Kerr nonlinearity and a local fractional derivative. <i>Results in Physics</i> , 2022, 36, 105430.	4.1	2
52	A variety of closed-form solutions, Painlevé analysis, and solitary wave profiles for modified KdV-Zakharov-Kuznetsov equation in $(3+1)$ -dimensions. <i>Results in Physics</i> , 2022, 36, 105394.	4.1	14
53	Redox-active supercapacitor electrode from two-monomer-connected precursor (Pyrrole): Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Electrochimica Acta, 2022, 415, 140243.	5.2	27
54	Pure-cubic optical soliton perturbation with full nonlinearity by a new generalized approach. <i>Optik</i> , 2022, 258, 168865.	2.9	23

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55	An efficient technique of $\langle \text{mml:math xmlns:mml= "http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1302" altimg="si3.svg" \rangle \langle \text{mml:mfenced open="("} \rangle \text{Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td (close="}$ method for modified KdV and Burgers equations with variable coefficients. Results in Physics, 2022, 37, 105504.	4.1	16
56	Abundant closed-form solutions of the (3+1)-dimensional Vakhnenko-Parkes equation describing the dynamics of various solitary waves in ocean engineering. Journal of Ocean Engineering and Science, 2022, , .	4.3	15
57	Botanical Leaf Disease Detection and Classification Using Convolutional Neural Network: A Hybrid Metaheuristic Enabled Approach. Computers, 2022, 11, 82.	3.3	10
58	Chaotic Sparrow Search Algorithm with Deep Transfer Learning Enabled Breast Cancer Classification on Histopathological Images. Cancers, 2022, 14, 2770.	3.7	13
59	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
60	The (3 + 1)-dimensional Benjamin-Ono equation: Painlevé analysis, rogue waves, breather waves and soliton solutions. International Journal of Modern Physics B, 2022, 36, .	2.0	5
61	Different dynamics of invariant solutions to a generalized (3+1)-dimensional Camassa-Holm-Kadomtsev-Petviashvili equation arising in shallow water-waves. Journal of Ocean Engineering and Science, 2022, , .	4.3	10
62	Synergistic properties of essential oils of eucalyptus (<i>Eucalyptus globulus</i>) and lemon grass (<i>Cymbopogon flexuosus</i>) against cattle tick, <i>Rhipicephalus microplus</i> . International Journal of Acarology, 2022, 48, 338-343.	0.7	2
63	Dynamics of closed-form invariant solutions and diversity of wave profiles of (2+1)-dimensional Ito integro-differential equation via Lie symmetry analysis. Journal of Ocean Engineering and Science, 2022, , .	4.3	11
64	Some closed-form solutions, conservation laws, and various solitary waves to the (2 + 1)-D potential B-K equation via Lie symmetry approach. International Journal of Modern Physics B, 2022, 36, .	2.0	6
65	Lump, soliton, and interaction solutions to a generalized two-mode higher-order nonlinear evolution equation in plasma physics. Nonlinear Dynamics, 2022, 110, 693-704.	5.2	60
66	OD to 3D carbon-based networks combined with pseudocapacitive electrode material for high energy density supercapacitor: A review. Chemical Engineering Journal, 2021, 403, 126352.	12.7	755
67	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
68	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
69	Fabrication of broccoli-like 3D nanoflowers of SnS with excellent supercapacitive performance. Journal of Alloys and Compounds, 2021, 852, 156764.	5.5	7
70	Cypermethrin resistance in Hyalomma anatolicum and Rhipicephalus microplus ticks of arid and semi-arid zone of Haryana, a northern state of India. International Journal of Tropical Insect Science, 2021, 41, 703-709.	1.0	3
71	Artificial Intelligence and Internet of Things Enabled Disease Diagnosis Model for Smart Healthcare Systems. IEEE Access, 2021, 9, 45137-45146.	4.2	94
72	Deep Learning-Based Smart IoT Health System for Blindness Detection Using Retina Images. IEEE Access, 2021, 9, 70606-70615.	4.2	16

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73	L-Selectin expression is associated with inflammatory microenvironment and favourable prognosis in breast cancer. 3 Biotech, 2021, 11, 38.	2.2	9
74	Lie symmetry analysis, abundant exact solutions and dynamics of multisolitons to the $(2+1)$ -dimensional KP-BBM equation. Pramana - Journal of Physics, 2021, 95, 1.	1.8	37
75	Efficacy of commercially available chemical compound used against management of tick infestation in Mhow, Madhya Pradesh. International Journal of Tropical Insect Science, 2021, 41, 2469-2475.	1.0	0
76	Invariance Analysis, Exact Solution and Conservation Laws of $(2 + 1)$ Dim Fractional Kadomtsev-Petviashvili (KP) System. Symmetry, 2021, 13, 477.	2.2	22
77	Lie symmetry analysis, group-invariant solutions and dynamics of solitons to the $(2+1)$ -dimensional Bogoyavlenskii-Schieff equation. Pramana - Journal of Physics, 2021, 95, 1.	1.8	31
78	Invariant solutions and conservation laws of Einstein field equations in non-comoving radiation fields. Chinese Journal of Physics, 2021, 70, 37-43.	3.9	4
79	Non-auto-Bäcklund transformation and novel abundant explicit exact solutions of the variable coefficients Burger equation. Chaos, Solitons and Fractals, 2021, 145, 110775.	5.1	8
80	A $(2+1)$ -dimensional Kadomtsev-Petviashvili equation with competing dispersion effect: Painlevé analysis, dynamical behavior and invariant solutions. Results in Physics, 2021, 23, 104043.	4.1	89
81	Sensitivity and Chaotic Dynamics of an Eco-Epidemiological System with Vaccination and Migration in Prey. Brazilian Journal of Physics, 2021, 51, 986-1006.	1.4	2
82	Dynamic analysis of the role of innate immunity in SEIS epidemic model. European Physical Journal Plus, 2021, 136, 439.	2.6	10
83	Lie symmetry reductions, abundant exact solutions and localized wave structures of solitons for a $(2 + 1)$ -dimensional Burgers equation. Results in Physics, 2021, 23, 104006.	4.1	55
84	The Lie symmetry analysis and exact Jacobi elliptic solutions for the Kawahara-KdV type equations. Results in Physics, 2021, 23, 104006.	4.1	55
85	Lie symmetries, optimal system, group-invariant solutions and dynamical behaviors of solitary wave solutions for a $(3+1)$ -dimensional KdV-type equation. European Physical Journal Plus, 2021, 136, 1.	2.6	39
86	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
87	Formulation and Evaluation of Sustained Release Matrix Tablets of Aceclofenac. Borneo Journal of Pharmacy, 2021, 4, 99-109.	0.2	2
88	New exact static solutions of Einstein-Maxwell field equations with a magnetic dipole. Results in Physics, 2021, 24, 104136.	4.1	6
89	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
90	A new Painlevé integrable Broer-Kaup system: symmetry analysis, analytic solutions and conservation laws. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 3711-3721.	2.8	3

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91	Lie Symmetry Analysis and Dynamics of Exact Solutions of the (2+1)-Dimensional Nonlinear Sharmaâ€™Tassoâ€™Olver Equation. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-12.	1.1	3
92	Chaos detection in SIR model with modified Beddingtonâ€™De Angelis type incidence rate and saturated treatment. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2021, 12, 2150049.	1.4	1
93	Urine miRNA signature as a potential non-invasive diagnostic and prognostic biomarker in cervical cancer. <i>Scientific Reports</i> , 2021, 11, 10323.	3.3	31
94	Some exact invariant solutions and dynamical structures of multiple solitons for the (2+1)-dimensional Bogoyavlensky-Konopelchenko equation with variable coefficients using Lie symmetry analysis. <i>Chinese Journal of Physics</i> , 2021, 71, 518-538.	3.9	20
95	Optical solitons and bifurcation analysis in fiber Bragg gratings with Lie symmetry and Kudryashovâ€™s approach. <i>Nonlinear Dynamics</i> , 2021, 105, 735-751.	5.2	29
96	Abundant closed-form solutions and solitonic structures to an integrable fifth-order generalized nonlinear evolution equation in plasma physics. <i>Results in Physics</i> , 2021, 26, 104453.	4.1	57
97	On new symmetries and exact solutions of Einsteinâ€™s field equation for perfect fluid distribution. <i>Pramana - Journal of Physics</i> , 2021, 95, 1.	1.8	5
98	New optical soliton solutions via two distinctive schemes for the DNA Peyrardâ€™Bishop equation in fractal order. <i>Modern Physics Letters B</i> , 2021, 35, 2150444.	1.9	24
99	Application of the Lie symmetry approach to an extended Jimboâ€™Miwa equation in (3+1) dimensions. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	21
100	On the Classification of MR Images Using â€œELM-SSAâ€•Coated Hybrid Model. <i>Mathematics</i> , 2021, 9, 2095.	2.2	16
101	Invariance analysis, optimal system, closed-form solutions and dynamical wave structures of a (2+1)-dimensional dissipative long wave system. <i>Physica Scripta</i> , 2021, 96, 125202.	2.5	86
102	Role of microRNAs in regulating cell proliferation, metastasis and chemoresistance and their applications as cancer biomarkers in small cell lung cancer. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2021, 1876, 188552.	7.4	23
103	Potential environmental toxicant exposure, metabolizing gene variants and risk of PCOS-A systematic review. <i>Reproductive Toxicology</i> , 2021, 103, 124-132.	2.9	6
104	Abundant different types of exact soliton solution to the (4+1)-dimensional Fokas and (2+1)-dimensional breaking soliton equations. <i>Communications in Theoretical Physics</i> , 2021, 73, 105007.	2.5	79
105	A (2+1)-dimensional generalized Hirotaâ€™Satsumaâ€™Ito equations: Lie symmetry analysis, invariant solutions and dynamics of soliton solutions. <i>Results in Physics</i> , 2021, 28, 104621.	4.1	41
106	Invariant solutions and bifurcation analysis of the nonlinear transmission line model. <i>Nonlinear Dynamics</i> , 2021, 106, 211-227.	5.2	3
107	Dynamical analysis of SEIS model with nonlinear innate immunity and saturated treatment. <i>European Physical Journal Plus</i> , 2021, 136, 952.	2.6	5
108	Cubic-quartic optical solitons with Kudryashovâ€™s law of refractive index by Lie symmetry analysis. <i>Optik</i> , 2021, 242, 167308.	2.9	17

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109	Generalised exponential rational function method for obtaining numerous exact soliton solutions to a $(3+1)$ -dimensional Jimbo-Miwa equation. Pramana - Journal of Physics, 2021, 95, 1.	1.8	12
110	A plentiful supply of soliton solutions for DNA Peyrard-Bishop equation by means of a new auxiliary equation strategy. International Journal of Modern Physics B, 2021, 35, .	2.0	22
111	An IGA based nonlocal gradient-enhanced damage model for failure analysis of cortical bone. Engineering Fracture Mechanics, 2021, 255, 107976.	4.3	9
112	Core@shell quantum dots as a fluorescent probe for the detection of cholesterol and heavy metal ions in aqueous media. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 626, 127090.	4.7	8
113	A study of Bogoyavlenskii's $(2+1)$ -dimensional breaking soliton equation: Lie symmetry, dynamical behaviors and closed-form solutions. Results in Physics, 2021, 29, 104793.	4.1	17
114	Different analytical approaches for finding novel optical solitons with generalized third-order nonlinear Schrödinger equation. Results in Physics, 2021, 29, 104755.	4.1	21
115	Energy optimization from a binary mixture of non-edible oilseeds pyrolysis: Kinetic triplets analysis using Thermogravimetric Analyser and prediction modeling by Artificial Neural Network. Journal of Environmental Management, 2021, 297, 113253.	7.8	19
116	Unsupervised Deep Learning based Variational Autoencoder Model for COVID-19 Diagnosis and Classification. Pattern Recognition Letters, 2021, 151, 267-274.	4.2	54
117	Straddled optical solitons for cubic-quartic Lakshmanan-Porsezian-Daniel model by Lie symmetry. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 417, 127706.	2.1	12
118	An efficient Mittag-Leffler kernel approach for time-fractional advection-reaction-diffusion equation. Applied Numerical Mathematics, 2021, 170, 190-207.	2.1	33
119	An intelligent cognitive computing based intrusion detection for industrial cyber-physical systems. Measurement: Journal of the International Measurement Confederation, 2021, 186, 110145.	5.0	30
120	A malaria model with Caputo-Fabrizio and Atangana-Baleanu derivatives. International Journal of Modeling, Simulation, and Scientific Computing, 2021, 12, 2150013.	1.4	28
121	Lie symmetry analysis for obtaining exact soliton solutions of generalized Camassa-Holm-Kadomtsev-Petviashvili equation. International Journal of Modern Physics B, 2021, 35, 2150028.	2.0	41
122	Dynamical behaviors of various optical soliton solutions for the Fokas-Lenells equation. Modern Physics Letters B, 2021, 35, .	1.9	25
123	Some new families of exact solitary wave solutions of the Klein-Gordon-Zakharov equations in plasma physics. Pramana - Journal of Physics, 2021, 95, 1.	1.8	28
124	An extended $(3+1)$ -dimensional Jimbo-Miwa equation: Symmetry reductions, invariant solutions and dynamics of different solitary waves. Modern Physics Letters B, 2021, 35, .	1.9	26
125	Abundant analytical soliton solutions and Evolutionary behaviors of various wave profiles to the Chaffee-Infante equation with gas diffusion in a homogeneous medium. Results in Physics, 2021, 30, 104866.	4.1	26
126	Exact closed-form solutions and dynamics of solitons for a $(2+1)$ -dimensional universal hierarchy equation via Lie approach. Pramana - Journal of Physics, 2021, 95, 1.	1.8	10

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127	Dynamics of exact closed-form solutions to the Schamel Burgers and Schamel equations with constant coefficients using a novel analytical approach. International Journal of Modern Physics B, 2021, 35, .	2.0	14
128	Evaluation of the programmed death-ligand 1 mRNA expression and immunopositivity and their correlation with survival outcomes in Indian lung cancer patients. Human Cell, 2021, , 1.	2.7	0
129	A study of multi-soliton solutions, breather, lumps, and their interactions for kadomtsev-petviashvili equation with variable time coefficient using Hirota method. Physica Scripta, 2021, 96, 125255.	2.5	73
130	Numerical Approximation of Generalized Burger's-Fisher and Generalized Burger's-Huxley Equation by Compact Finite Difference Method. Advances in Mathematical Physics, 2021, 2021, 1-17.	0.8	2
131	Abundant analytical closed-form solutions and various solitonic wave forms to the ZK-BBM and GZK-BBM equations in fluids and plasma physics. Partial Differential Equations in Applied Mathematics, 2021, 4, 100200.	2.4	6
132	Quasi wavelet numerical approach of non-linear reaction diffusion and integro reaction-diffusion equation with Atangana's Baleanu time fractional derivative. Chaos, Solitons and Fractals, 2020, 130, 109456.	5.1	11
133	A Legendre spectral finite difference method for the solution of non-linear space-time fractional Burger's-Huxley and reaction-diffusion equation with Atangana's Baleanu derivative. Chaos, Solitons and Fractals, 2020, 130, 109402.	5.1	14
134	On explicit exact solutions and conservation laws for time fractional variable - coefficient coupled Burger's equations. Communications in Nonlinear Science and Numerical Simulation, 2020, 83, 105108.	3.3	17
135	Nanographenes: Ultrastable, Switchable, and Bright Probes for Super-Resolution Microscopy. Angewandte Chemie - International Edition, 2020, 59, 496-502.	13.8	35
136	An efficient technique for solving the space-time fractional reaction-diffusion equation in porous media. Chinese Journal of Physics, 2020, 68, 483-492.	3.9	34
137	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
138	Chaos Detection and Optimal Control in a Cannibalistic Prey-Predator System with Harvesting. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050171.	1.7	7
139	Security Challenges and Cyber Forensic Ecosystem in IoT Driven BYOD Environment. IEEE Access, 2020, 8, 172770-172782.	4.2	16
140	Zn-Ni ₇ S ₆ Nanosheet Arrays Wrapped with Nanopetals of Ni(OH) ₂ as a Novel Core-Shell Electrode Material for Asymmetric Supercapacitors with High Energy Density and Cycling Stability Performance. ACS Applied Materials & Interfaces, 2020, 12, 47377-47388.	8.0	49
141	Lie symmetry analysis, exact analytical solutions and dynamics of solitons for (2 + 1)-dimensional NNV equations. Physica Scripta, 2020, 95, 095204.	2.5	86
142	Identification of differentially expressed circulating serum microRNA for the diagnosis and prognosis of Indian non-small cell lung cancer patients. Current Problems in Cancer, 2020, 44, 100540.	2.0	39
143	A new numerical study of space-time fractional advection-reaction-diffusion equation with Roubnov fractional-exponential kernel. Numerical Methods for Partial Differential Equations, 2020, , .	3.6	1
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