

Sachin Kumar

List of Publications by Year in descending order

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334
papers

12,216
citations

28274

55
h-index

40979

93
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342
all docs

342
docs citations

342
times ranked

10987
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Importance of chemical pretreatment for bioconversion of lignocellulosic biomass. Renewable and Sustainable Energy Reviews, 2014, 36, 91-106.	16.4	700
3	Recent Trends in the Pretreatment of Lignocellulosic Biomass for Value-Added Products. Frontiers in Energy Research, 2018, 6, .	2.3	622
4	Internet of Things is a revolutionary approach for future technology enhancement: a review. Journal of Big Data, 2019, 6, .	11.0	479
5	Identifying pneumonia in chest X-rays: A deep learning approach. Measurement: Journal of the International Measurement Confederation, 2019, 145, 511-518.	5.0	299
6	Scope of Algae as Third Generation Biofuels. Frontiers in Bioengineering and Biotechnology, 2014, 2, 90.	4.1	227
7	Targeting Mcl-1 for the therapy of cancer. Expert Opinion on Investigational Drugs, 2011, 20, 1397-1411.	4.1	173
8	Chemical Functionalization of Graphene To Augment Stem Cell Osteogenesis and Inhibit Biofilm Formation on Polymer Composites for Orthopedic Applications. ACS Applied Materials & Interfaces, 2015, 7, 3237-3252.	8.0	170
9	Comprehensive Review on the Use of Graphene-Based Substrates for Regenerative Medicine and Biomedical Devices. ACS Applied Materials & Interfaces, 2016, 8, 26431-26457.	8.0	141
10	Circulating Cell-Free DNA in Plasma/Serum of Lung Cancer Patients as a Potential Screening and Prognostic Tool. Clinical Chemistry, 2006, 52, 1833-42.	3.2	140
11	Hierarchical nanohoneycomb-like CoMoO_4 - MnO_2 core-shell and Fe_2O_3 nanosheet arrays on 3D graphene foam with excellent supercapacitive performance. Journal of Materials Chemistry A, 2018, 6, 7182-7193.	10.3	116
12	A data mining approach to characterize road accident locations. Journal of Modern Transportation, 2016, 24, 62-72.	2.5	111
13	Engineering a multi-biofunctional composite using poly(ethylenimine) decorated graphene oxide for bone tissue regeneration. Nanoscale, 2016, 8, 6820-6836.	5.6	107
14	Algal growth in photosynthetic algal microbial fuel cell and its subsequent utilization for biofuels. Renewable and Sustainable Energy Reviews, 2018, 82, 402-414.	16.4	107
15	Design, development and technological advancement in the biomass cookstoves: A review. Renewable and Sustainable Energy Reviews, 2013, 26, 265-285.	16.4	104
16	Oxygen vacancy induced photoluminescence properties and enhanced photocatalytic activity of ferromagnetic ZrO_2 nanostructures on methylene blue dye under ultra-violet radiation. Journal of Alloys and Compounds, 2015, 644, 654-662.	5.5	104
17	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
18	The role of renewable chemicals and biofuels in building a bioeconomy. Biofuels, Bioproducts and Biorefining, 2020, 14, 830-844.	3.7	96

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19	Artificial Intelligence and Internet of Things Enabled Disease Diagnosis Model for Smart Healthcare Systems. <i>IEEE Access</i> , 2021, 9, 45137-45146.	4.2	94
20	Lie symmetry reductions and group invariant solutions of $(2\hat{A}+\hat{A}1)$ -dimensional modified Veronese web equation. <i>Nonlinear Dynamics</i> , 2019, 98, 1891-1903.	5.2	93
21	Bioprospecting thermophilic/thermotolerant microbes for production of lignocellulosic ethanol: A future perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 51, 699-717.	16.4	92
22	Strontium eluting graphene hybrid nanoparticles augment osteogenesis in a 3D tissue scaffold. <i>Nanoscale</i> , 2015, 7, 2023-2033.	5.6	91
23	A data mining framework to analyze road accident data. <i>Journal of Big Data</i> , 2015, 2, .	11.0	90
24	One-step in situ synthesis of CeO_2 nanoparticles grown on reduced graphene oxide as an excellent fluorescent and photocatalyst material under sunlight irradiation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 11157-11167.	2.8	89
25	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
26	A $(2+1)$ -dimensional Kadomtsev-Petviashvili equation with competing dispersion effect: Painlevé analysis, dynamical behavior and invariant solutions. <i>Results in Physics</i> , 2021, 23, 104043.	4.1	89
27	Linking graphene-based material physicochemical properties with molecular adsorption, structure and cell fate. <i>Communications Chemistry</i> , 2020, 3, .	4.5	87
28	Lie symmetry analysis, exact analytical solutions and dynamics of solitons for $(2 + 1)$ -dimensional NNV equations. <i>Physica Scripta</i> , 2020, 95, 095204.	2.5	86
29	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
30	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
31	Biohythane production in two-stage anaerobic digestion system. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 17363-17380.	7.1	85
32	Shape induced (spherical, sheets and rods) optical and magnetic properties of CdS nanostructures with enhanced photocatalytic activity for photodegradation of methylene blue dye under ultra-violet irradiation. <i>Journal of Alloys and Compounds</i> , 2016, 679, 324-334.	5.5	84
33	Multifunctional biodegradable polymer nanocomposite incorporating graphene-silver hybrid for biomedical applications. <i>Materials and Design</i> , 2016, 108, 319-332.	7.0	81
34	Coupled Higgs field equation and Hamiltonian amplitude equation: Lie classical approach and (\hat{G}^2/\hat{G}) -expansion method. <i>Pramana - Journal of Physics</i> , 2012, 79, 41-60.	1.8	79
35	Fabrication of 3D graphene-CNTs/ \pm - MoO_3 hybrid film as an advance electrode material for asymmetric supercapacitor with excellent energy density and cycling life. <i>Chemical Engineering Journal</i> , 2018, 352, 268-276.	12.7	79
36	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

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37	A homogenized XFEM approach to simulate fatigue crack growth problems. Computers and Structures, 2015, 150, 1-22.	4.4	78
38	Effect of calcination temperature on phase transformation, structural and optical properties of sol-gel derived ZrO ₂ nanostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 66, 74-80.	2.7	78
39	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
40	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
41	Brain Tumor Classification Using Dense Efficient-Net. Axioms, 2022, 11, 34.	1.9	72
42	Modeling and simulation of kinked cracks by virtual node XFEM. Computer Methods in Applied Mechanics and Engineering, 2015, 283, 1425-1466.	6.6	70
43	Role of non-coding RNA networks in leukemia progression, metastasis and drug resistance. Molecular Cancer, 2020, 19, 57.	19.2	68
44	Some new periodic solitary wave solutions of (3+1)-dimensional generalized shallow water wave equation by Lie symmetry approach. Computers and Mathematics With Applications, 2019, 78, 857-877.	2.7	67
45	Solitons and other nonlinear waves of the Boussinesq equation. Nonlinear Dynamics, 2012, 70, 1213-1221.	5.2	66
46	New enrichments in XFEM to model dynamic crack response of 2-D elastic solids. International Journal of Impact Engineering, 2016, 87, 198-211.	5.0	66
47	Ethanol and xylitol production from glucose and xylose at high temperature by Kluyveromyces sp. IPE453. Journal of Industrial Microbiology and Biotechnology, 2009, 36, 1483-1489.	3.0	64
48	Amine-functionalized multiwall carbon nanotubes impart osteoinductive and bactericidal properties in poly(μ -caprolactone) composites. RSC Advances, 2014, 4, 19086-19098.	3.6	64
49	Opacity and plasmonic properties of Ag embedded glass based metamaterials. RSC Advances, 2015, 5, 12555-12562.	3.6	64
50	Solitary wave solutions of (3+1)-dimensional extended Zakharov-Kuznetsov equation by Lie symmetry approach. Computers and Mathematics With Applications, 2019, 77, 2096-2113.	2.7	64
51	Characterization of hyperthermostable α -amylase from Geobacillus sp. IPTN. Applied Microbiology and Biotechnology, 2010, 86, 1857-1866.	3.6	62
52	Kinetic studies of two-stage sulphuric acid hydrolysis of sugarcane bagasse. Renewable Energy, 2015, 83, 850-858.	8.9	62
53	Lie symmetry reductions and dynamics of soliton solutions of (2+1)-dimensional Pavlov equation. Pramana - Journal of Physics, 2020, 94, 1.	1.8	62
54	Multi-biofunctional polymer graphene composite for bone tissue regeneration that elutes copper ions to impart angiogenic, osteogenic and bactericidal properties. Colloids and Surfaces B: Biointerfaces, 2017, 159, 293-302.	5.0	61

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55	Lump, soliton, and interaction solutions to a generalized two-mode higher-order nonlinear evolution equation in plasma physics. <i>Nonlinear Dynamics</i> , 2022, 110, 693-704.	5.2	60
56	3D scaffold alters cellular response to graphene in a polymer composite for orthopedic applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 732-749.	3.4	57
57	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
58	A novel thermostable xylanase of <i>Paenibacillus macerans</i> IIPSP3 isolated from the termite gut. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012, 39, 851-860.	3.0	56
59	The Lie symmetry analysis and exact Jacobi elliptic solutions for the Kawahara-KdV type equations. <i>Results in Physics</i> , 2021, 23, 104006.	4.1	55
60	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
61	Unsupervised Deep Learning based Variational Autoencoder Model for COVID-19 Diagnosis and Classification. <i>Pattern Recognition Letters</i> , 2021, 151, 267-274.	4.2	54
62	A review on bioprocessing of paddy straw to ethanol using simultaneous saccharification and fermentation. <i>Process Biochemistry</i> , 2019, 85, 125-134.	3.7	53
63	Type I Collagen from Jellyfish <i>Catostylus mosaicus</i> for Biomaterial Applications. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 2115-2125.	5.2	52
64	Painlevé analysis, Lie symmetries and exact solutions for (2+1)-dimensional variable coefficients Broer-Kaup equations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 1529-1541.	3.3	50
65	A new search for thermotolerant yeasts, its characterization and optimization using response surface methodology for ethanol production. <i>Frontiers in Microbiology</i> , 2015, 6, 889.	3.5	50
66	Solitary wave solutions of pZK equation using Lie point symmetries. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	50
67	Fabrication of Co-Ni-Zn ternary Oxide@NiWO ₄ core-shell nanowire arrays and Fe ₂ O ₃ -CNTs@GF for ultra-high-performance asymmetric supercapacitor. <i>Composites Part B: Engineering</i> , 2019, 176, 107223.	12.0	49
68	Hierarchical design of Cu-Ni(OH) ₂ /Cu-MnxOy core/shell nanosheet arrays for ultra-high performance of asymmetric supercapacitor. <i>Chemical Engineering Journal</i> , 2019, 369, 705-715.	12.7	49
69	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. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47377-47388.	8.0	49
70	Effect of glycerol thermal and hydrothermal pretreatments on lignin degradation and enzymatic hydrolysis in paddy straw. <i>Renewable Energy</i> , 2020, 154, 1304-1313.	8.9	49
71	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
72	Absence of room temperature ferromagnetism in Fe stabilized ZrO ₂ nanostructures and effect of Fe doping on its structural, optical and luminescence properties. <i>Journal of Alloys and Compounds</i> , 2015, 649, 348-356.	5.5	45

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73	The integrable Boussinesq equation and its breathers, lump and soliton solutions. <i>Nonlinear Dynamics</i> , 2022, 107, 2703-2716.	5.2	45
74	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
75	Group invariant solutions of (3+1)-dimensional generalized B-type Kadomtsev Petviashvili equation using optimal system of Lie subalgebra. <i>Physica Scripta</i> , 2019, 94, 065204.	2.5	41
76	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
77	Lie symmetry analysis for obtaining exact soliton solutions of generalized Camassa-Holm-Kadomtsev-Petviashvili equation. <i>International Journal of Modern Physics B</i> , 2021, 35, 2150028.	2.0	41
78	Efficacy of circulating plasma DNA as a diagnostic tool for advanced non-small cell lung cancer and its predictive utility for survival and response to chemotherapy. <i>Lung Cancer</i> , 2010, 70, 211-217.	2.0	40
79	Ni, Co and Ni-Co codoping induced modification in shape, optical band gap and enhanced photocatalytic activity of CeO_2 nanostructures for photodegradation of methylene blue dye under visible light irradiation. <i>RSC Advances</i> , 2016, 6, 8651-8660.	3.6	39
80	Identification of differentially expressed circulating serum microRNA for the diagnosis and prognosis of Indian non-small cell lung cancer patients. <i>Current Problems in Cancer</i> , 2020, 44, 100540.	2.0	39
81	Lie symmetries, optimal system, group-invariant solutions and dynamical behaviors of solitary wave solutions for a (3+1)-dimensional KdV-type equation. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	39
82	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
83	A comparative analysis of heterogeneity in road accident data using data mining techniques. <i>Evolving Systems</i> , 2017, 8, 147-155.	3.9	37
84	Lie symmetry analysis, abundant exact solutions and dynamics of multisolitons to the $(2+1)$ -dimensional KP-BBM equation. <i>Pramana - Journal of Physics</i> , 2021, 95, 1.	1.8	37
85	Room temperature ferromagnetism in undoped and Mn doped t-ZrO ₂ nanostructures originated due to oxygen vacancy and effect of Mn doping on its optical properties. <i>Materials Chemistry and Physics</i> , 2016, 169, 13-20.	4.0	36
86	Epigenetic regulators of programmed death-ligand 1 expression in human cancers. <i>Translational Research</i> , 2018, 202, 129-145.	5.0	36
87	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
88	XFEM simulation of stable crack growth using J-R curve under finite strain plasticity. <i>International Journal of Mechanics and Materials in Design</i> , 2014, 10, 165-177.	3.0	35
89	Enhancement in xylose utilization using <i>Kluyveromyces marxianus</i> NIRE-K1 through evolutionary adaptation approach. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 835-843.	3.4	35
90	Chaotic behavior of predator-prey model with group defense and non-linear harvesting in prey. <i>Chaos, Solitons and Fractals</i> , 2019, 119, 19-28.	5.1	35

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91	Nanographenes: Ultrastable, Switchable, and Bright Probes for Super-Resolution Microscopy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 496-502.	13.8	35
92	A review on biomethane potential of paddy straw and diverse prospects to enhance its biodigestibility. <i>Journal of Cleaner Production</i> , 2019, 217, 295-307.	9.3	34
93	An efficient technique for solving the space-time fractional reaction-diffusion equation in porous media. <i>Chinese Journal of Physics</i> , 2020, 68, 483-492.	3.9	34
94	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
95	Analysis of hourly road accident counts using hierarchical clustering and cophenetic correlation coefficient (CPCC). <i>Journal of Big Data</i> , 2016, 3, .	11.0	33
96	An efficient Mittag-Leffler kernel approach for time-fractional advection-reaction-diffusion equation. <i>Applied Numerical Mathematics</i> , 2021, 170, 190-207.	2.1	33
97	Benjamin-Bona-Mahony (BBM) equation with variable coefficients: Similarity reductions and Painlevé analysis. <i>Applied Mathematics and Computation</i> , 2011, 217, 7021-7027.	2.2	32
98	Enzymatically degradable EMI shielding materials derived from PCL based nanocomposites. <i>RSC Advances</i> , 2015, 5, 17716-17725.	3.6	32
99	Bioprocessing of bagasse hydrolysate for ethanol and xylitol production using thermotolerant yeast. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 39-47.	3.4	32
100	Brain Tumour Classification Using Noble Deep Learning Approach with Parametric Optimization through Metaheuristics Approaches. <i>Computers</i> , 2022, 11, 10.	3.3	32
101	Lie symmetry analysis, optimal system, exact solutions and dynamics of solitons of a (3+1)-dimensional generalised Boussinesq equation. <i>Pramana - Journal of Physics</i> , 2022, 96, 1.	1.8	32
102	A multigrid coupled (FE-EFG) approach to simulate fatigue crack growth in heterogeneous materials. <i>Theoretical and Applied Fracture Mechanics</i> , 2014, 72, 121-135.	4.7	31
103	Lie symmetry analysis, group-invariant solutions and dynamics of solitons to the (2+1)-dimensional Bogoyavlenskii-Schieff equation. <i>Pramana - Journal of Physics</i> , 2021, 95, 1.	1.8	31
104	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
105	A coupled finite element and element-free Galerkin approach for the simulation of stable crack growth in ductile materials. <i>Theoretical and Applied Fracture Mechanics</i> , 2014, 70, 49-58.	4.7	30
106	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
107	An intelligent cognitive computing based intrusion detection for industrial cyber-physical systems. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 186, 110145.	5.0	30
108	Neutrophil and remnant clearance in immunity and inflammation. <i>Immunology</i> , 2022, 165, 22-43.	4.4	30

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109	Biological Pretreatment of Lignocellulosic Biomass for Enzymatic Saccharification. Green Energy and Technology, 2013, , 3-34.	0.6	29
110	Severity analysis of powered two wheeler traffic accidents in Uttarakhand, India. European Transport Research Review, 2017, 9, .	4.8	29
111	Synergistic interactions between silver decorated graphene and carbon nanotubes yield flexible composites to attenuate electromagnetic radiation. Nanotechnology, 2017, 28, 025201.	2.6	29
112	A numerical study of the nonlinear fractional mathematical model of tumor cells in presence of chemotherapeutic treatment. International Journal of Biomathematics, 2020, 13, 2050021.	2.9	29
113	Optical solitons and bifurcation analysis in fiber Bragg gratings with Lie symmetry and Kudryashov's approach. Nonlinear Dynamics, 2021, 105, 735-751.	5.2	29
114	INVARIANT SOLUTIONS OF EINSTEIN FIELD EQUATION FOR NONCONFORMALLY FLAT FLUID SPHERES OF EMBEDDING CLASS ONE. International Journal of Modern Physics A, 2010, 25, 3993-4000.	1.5	28
115	Bioprospecting thermostable cellulosomes for efficient biofuel production from lignocellulosic biomass. Bioresources and Bioprocessing, 2015, 2, .	4.2	28
116	A malaria model with Caputo's Fabrizio and Atangana's Baleanu derivatives. International Journal of Modeling, Simulation, and Scientific Computing, 2021, 12, 2150013.	1.4	28
117	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
118	Cr modified Raman, optical band gap and magnetic properties of SnO ₂ nanoparticles. Journal of Materials Science: Materials in Electronics, 2016, 27, 6020-6029.	2.2	27
119	Unimpeded permeation of water through biocidal graphene oxide sheets anchored on to 3D porous polyolefinic membranes. Nanoscale, 2016, 8, 8048-8057.	5.6	27
120	Lie symmetry analysis and invariant solutions of $(3+1)$ -dimensional Calogero-Bogoyavlenskii-Schiff equation. Nonlinear Dynamics, 2018, 93, 349-360.	5.2	27
121	Xylose transport in yeast for lignocellulosic ethanol production: Current status. Journal of Bioscience and Bioengineering, 2018, 125, 259-267.	2.2	27
122	Quantifying the Vasculogenic Potential of Induced Pluripotent Stem Cell-Derived Endothelial Progenitors in Collagen Hydrogels. Tissue Engineering - Part A, 2019, 25, 746-758.	3.1	27
123	Optical solitons with generalized anti-cubic nonlinearity by Lie symmetry. Optik, 2020, 206, 163638.	2.9	27
124	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
125	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
126	Elasto-plastic fatigue crack growth analysis of plane problems in the presence of flaws using XFEM. Frontiers of Structural and Civil Engineering, 2015, 9, 420-440.	2.9	26

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127	An extended (3+1)-dimensional Jimbo-Miwa equation: Symmetry reductions, invariant solutions and dynamics of different solitary waves. <i>Modern Physics Letters B</i> , 2021, 35, .	1.9	26
128	Abundant analytical soliton solutions and Evolutionary behaviors of various wave profiles to the Chaffee-Infante equation with gas diffusion in a homogeneous medium. <i>Results in Physics</i> , 2021, 30, 104866.	4.1	26
129	A homogenized multigrid XFEM to predict the crack growth behavior of ductile material in the presence of microstructural defects. <i>Engineering Fracture Mechanics</i> , 2019, 205, 577-602.	4.3	25
130	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
131	A novel mathematical approach of COVID-19 with non-singular fractional derivative. <i>Chaos, Solitons and Fractals</i> , 2020, 139, 110048.	5.1	25
132	Dynamical behaviors of various optical soliton solutions for the Fokas-Lenells equation. <i>Modern Physics Letters B</i> , 2021, 35, .	1.9	25
133	Plasma Nucleosome Levels Might Predict Response to Therapy in Patients With Advanced Non-Small-Cell Lung Cancer. <i>Clinical Lung Cancer</i> , 2010, 11, 36-44.	2.6	24
134	New optical soliton solutions via two distinctive schemes for the DNA Peyrard-Bishop equation in fractal order. <i>Modern Physics Letters B</i> , 2021, 35, 2150444.	1.9	24
135	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
136	Continuous ethanol production from sugarcane bagasse hydrolysate at high temperature with cell recycle and in-situ recovery of ethanol. <i>Chemical Engineering Science</i> , 2015, 138, 524-530.	3.8	23
137	A novel framework to analyze road accident time series data. <i>Journal of Big Data</i> , 2016, 3, .	11.0	23
138	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
139	Pure-cubic optical soliton perturbation with full nonlinearity by a new generalized approach. <i>Optik</i> , 2022, 258, 168865.	2.9	23
140	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
141	Facile synthesis of vanadia nanoparticles and assessment of antibacterial activity and cytotoxicity. <i>Materials Technology</i> , 2016, 31, 562-573.	3.0	22
142	Augmentation of ethanol production through statistically designed growth and fermentation medium using novel thermotolerant yeast isolates. <i>Renewable Energy</i> , 2017, 109, 406-421.	8.9	22
143	Invariance Analysis, Exact Solution and Conservation Laws of (2 + 1) Dim Fractional Kadomtsev-Petviashvili (KP) System. <i>Symmetry</i> , 2021, 13, 477.	2.2	22
144	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

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145	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
146	A plentiful supply of soliton solutions for DNA Peyrard-Bishop equation by means of a new auxiliary equation strategy. <i>International Journal of Modern Physics B</i> , 2021, 35, .	2.0	22
147	Invariant solutions of Biswas-Milovic equation. <i>Nonlinear Dynamics</i> , 2017, 87, 1153-1157.	5.2	21
148	Application of the Lie symmetry approach to an extended Jimbo-Miwa equation in (3+1) dimensions. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	21
149	Different analytical approaches for finding novel optical solitons with generalized third-order nonlinear Schrödinger equation. <i>Results in Physics</i> , 2021, 29, 104755.	4.1	21
150	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
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