Sunil Kumar

List of Publications by Year
in descending order

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157 papers	6,447 citations	81434 41 h-index	93651 72 g-index
157 all docs	157 docs citations	157 times ranked	2421 citing authors

#	Article	IF	Citations
1	A numerical study on fractional differential equation with population growth model. Numerical Methods for Partial Differential Equations, 2024, 40, .	2.0	6
2	A study on fractional predatorâ€“preyâ€“pathogen model with <scp>Mittagâ€“Leffler</scp> kernelâ€based operators. Numerical Methods for Partial Differential Equations, 2024, 40, .	2.0	17
3	Numerical investigations on <scp>COVID</scp>â€19 model through singular and nonâ€singular fractional operators. Numerical Methods for Partial Differential Equations, 2024, 40, .	2.0	73
4	A study on fractional COVIDâ€19 disease model by using Hermite wavelets. Mathematical Methods in the Applied Sciences, 2023, 46, 7671-7687.	1.2	34
5	A class of computationally efficient Newton-like methods with frozen inverse operator for nonlinear systems. International Journal of Nonlinear Sciences and Numerical Simulation, 2023, 24, 1177-1195.	0.4	1
6	A study on fractional HIVâ€AIDs transmission model with awareness effect. Mathematical Methods in the Applied Sciences, 2023, 46, 8334-8348.	1.2	16
7	A series-form solution of the coupled nonlinear equations by the method of directly defined inverse mapping and SRM. International Journal of Ambient Energy, 2022, 43, 1345-1354.	1.4	3
8	Energy Efficient Resource Migration Based Load Balance Mechanism for High Traffic Applications IoT. Wireless Personal Communications, 2022, 127, 385-403.	1.8	8
9	A robust study on the listeriosis disease by adopting fractal-fractional operators. AEJ - Alexandria Engineering Journal, 2022, 61, 2016-2028.	3.4	25
10	A THEORETICAL STUDY ON FRACTIONAL EBOLA HEMORRHAGIC FEVER MODEL. Fractals, 2022, 30, .	1.8	1
11	Orthonormal Bernoulli Polynomials for Solving a Class of Two Dimensional Stochastic Volterraâ€“Fredholm Integral Equations. International Journal of Applied and Computational Mathematics, 2022, 8, 31.	0.9	1
12	A study on fractional tumourâ€“immuneâ€“vitamins model for intervention of vitamins. Results in Physics, 2022, 33, 104963.	2.0	4
13	A study on fractional HBV model through singular and non-singular derivatives. European Physical Journal: Special Topics, 2022, 231, 1885-1904.	1.2	8
14	A study on eco-epidemiological model with fractional operators. Chaos, Solitons and Fractals, 2022, 156, 111697.	2.5	18
15	A FRACTAL-FRACTIONAL 2019-NCOV MODEL OF MAJOR DISASTER FOR HUMAN LIFE. Fractals, 2022, 30, .	1.8	3
16	A ROBUST COMPUTATIONAL DYNAMICS OF FRACTIONAL-ORDER SMOKING MODEL WITH RELAPSE HABIT. Fractals, 2022, 30, .	1.8	5
17	A numerical study of fractional population growth and nuclear decay model. AIMS Mathematics, 2022, 7, 11417-11442.	0.7	1
18	A study of Ralston's cubic convergence with the application of population growth model. AIMS Mathematics, 2022, 7, 11320-11344.	0.7	1

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19	Complex Dynamic Behaviour of Food Web Model with Generalized Fractional Operator. Mathematics, 2022, 10, 1702.	1.1	4
20	Spectral approximation methods for non equilibrium transport in turbulent channel flows using fADE. Applied Numerical Mathematics, 2021, 162, 53-66.	1.2	5
21	A mathematical analysis of ongoing outbreak<scp>COVID</scp>â€19 in India through nonsingular derivative. Numerical Methods for Partial Differential Equations, 2021, 37, 1282-1298.	2.0	56
22	A wavelet based numerical scheme for fractional order <scp>SEIR</scp> epidemic of measles by using Genocchi polynomials. Numerical Methods for Partial Differential Equations, 2021, 37, 1250-1268.	2.0	146
23	A fractional model for population dynamics of two interacting species by using spectral and Hermite wavelets methods. Numerical Methods for Partial Differential Equations, 2021, 37, 1652-1672.	2.0	42
24	A study on fractional hostâ€“parasitoid population dynamical model to describe insect species. Numerical Methods for Partial Differential Equations, 2021, 37, 1673-1692.	2.0	84
25	Exact traveling wave solutions of Chaffeeâ€“Infante equation in (2Â+Â1)â€dimensions and dimensionless Zakharov equation. Mathematical Methods in the Applied Sciences, 2021, 44, 1500-1513.	1.2	30
26	Accurate spectral algorithm for twoâ€dimensional variableâ€order fractional percolation equations. Mathematical Methods in the Applied Sciences, 2021, 44, 6228-6238.	1.2	1
27	Hopf bifurcation analysis in an age-structured heroin model. European Physical Journal Plus, 2021, 136, 1.	1.2	11
28	A robust study on 2019-nCOV outbreaks through non-singular derivative. European Physical Journal Plus, 2021, 136, 168.	1.2	84
29	Spatial patterns in a vegetation model with internal competition and feedback regulation. European Physical Journal Plus, 2021, 136, 1.	1.2	16
30	An efficient approach for fractional nonlinear chaotic model with Mittag-Leffler law. Journal of King Saud University - Science, 2021, 33, 101347.	1.6	10
31	A study on transmission dynamics of HIV/AIDS model through fractional operators. Results in Physics, 2021, 22, 103855.	2.0	20
32	A theoretical study of the Caputoâ€“Fabrizio fractional modeling for hearing loss due to Mumps virus with optimal control. Chaos, Solitons and Fractals, 2021, 144, 110668.	2.5	264
33	The unified method for abundant soliton solutions of local time fractional nonlinear evolution equations. Results in Physics, 2021, 22, 103979.	2.0	48
34	A study on four-species fractional population competition dynamical model. Results in Physics, 2021, 24, 104089.	2.0	5
35	Dynamical study on three-species population eco-epidemiological model with fractional order derivatives. Results in Physics, 2021, 24, 104074.	2.0	5
36	Threshold dynamics of difference equations for SEIR model with nonlinear incidence function and infinite delay. European Physical Journal Plus, 2021, 136, 587.	1.2	7

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37	Mathematical analysis of the influence of prey escaping from prey herd on three species fractional predator-prey interaction model. Physica A: Statistical Mechanics and Its Applications, 2021, 572, 125840.	1.2	24
38	A stability analysis on a smoking model with stochastic perturbation. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, ahead-of-print, .	1.6	3
39	A chaos study of fractional SIR epidemic model of childhood diseases. Results in Physics, 2021, 27, 104422.	2.0	8
40	Fractional time-delay mathematical modeling of Oncolytic Virotherapy. Chaos, Solitons and Fractals, 2021, 150, 111123.	2.5	33
41	A new financial chaotic model in Atangana-Baleanu stochastic fractional differential equations. AEJ - Alexandria Engineering Journal, 2021, 60, 5193-5204.	3.4	21
42	A computational study of transmission dynamics for dengue fever with a fractional approach. Mathematical Modelling of Natural Phenomena, 2021, 16, 48.	0.9	2
43	Bright, dark, and singular optical soliton solutions for perturbed Gerdjikov-Ivanov equation. Thermal Science, 2021, 25, 151-156.	0.5	6
44	Time fractional advection-dispersion model to study transportation of particles with time-memory for unsteady nonequilibrium suspension in open-channel turbulent flows. Physica Scripta, 2021, 96, 124078.	1.2	2
45	Similarities in a fifth-order evolution equation with and with no singular kernel. Chaos, Solitons and Fractals, 2020, 130, 109467.	2.5	155
46	Analytical approach for time fractional wave equations in the sense of Yang-Abdel-Aty-Cattani via the homotopy perturbation transform method. AEJ - Alexandria Engineering Journal, 2020, 59, 2859-2863.	3.4	68
47	A chaos study of tumor and effector cells in fractional tumor-immune model for cancer treatment. Chaos, Solitons and Fractals, 2020, 141, 110321.	2.5	143
48	A fractional system of Cauchyâ€reaction diffusion equations by adopting Robotnov function. Numerical Methods for Partial Differential Equations, 2020, , .	2.0	3
49	A spectral collocation method for fractional chemical clock reactions. Computational and Applied Mathematics, 2020, 39, 1.	1.0	17
50	A numerical analysis for fractional model of the spread of pests in tea plants. Numerical Methods for Partial Differential Equations, 2020, , .	2.0	9
51	Fractional differential equation pertaining to an integral operator involving incomplete H â€function in the kernel. Mathematical Methods in the Applied Sciences, 2020, , .	1.2	12
52	Chaotic behaviour of fractional predator-prey dynamical system. Chaos, Solitons and Fractals, 2020, 135, 109811.	2.5	220
53	An efficient computational method for local fractional transport equation occurring in fractal porous media. Computational and Applied Mathematics, 2020, 39, 1.	1.0	48
54	A model for describing the velocity of a particle in Brownian motion by Robotnov function based fractional operator. AEJ - Alexandria Engineering Journal, 2020, 59, 1435-1449.	3.4	54

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55	Generalization of Caputo-Fabrizio Fractional Derivative and Applications to Electrical Circuits. Frontiers in Physics, 2020, 8, .	1.0	98
56	An analysis for heat equations arises in diffusion process using new Yangâ€Abdelâ€Atyâ€Cattani fractional operator. Mathematical Methods in the Applied Sciences, 2020, 43, 6062-6080.	1.2	169
57	A study of fractional Lotkaâ€Volterra population model using Haar wavelet and Adamsâ€Bashforthâ€Moulton methods. Mathematical Methods in the Applied Sciences, 2020, 43, 5564-5578.	1.2	254
58	An efficient numerical scheme for fractional model of HIV-1 infection of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si40.svg"><mml:mrow><mml:mi mathvariant="italic">CD</mml:mi><mml:msup><mml:mrow><mml:mn>4</mml:mn></mml:mrow><mml:mrow><mml:mo>+</mml:mo></mml:mo> T-cells with the effect of antiviral drug therapy. AEJ - Alexandria Engineering Journal, 2020, 59, 2053-2064.	3.4	86
59	A study of behaviour for immune and tumor cells in immunogenetic tumour model with non-singular fractional derivative. Chaos, Solitons and Fractals, 2020, 133, 109619.	2.5	283
60	A modified analytical approach with existence and uniqueness for fractional Cauchy reactionâ€“diffusion equations. Advances in Difference Equations, 2020, 2020, .	3.5	46
61	A new Rabotnov fractionalâ€exponential functionâ€based fractional derivative for diffusion equation under external force. Mathematical Methods in the Applied Sciences, 2020, 43, 4460.	1.2	107
62	An Efficient Numerical Method for Fractional SIR Epidemic Model of Infectious Disease by Using Bernstein Wavelets. Mathematics, 2020, 8, 558.	1.1	145
63	Nonlinear Dynamics of Cattaneoâ€“Christov Heat Flux Model for Third-Grade Power-Law Fluid. Journal of Computational and Nonlinear Dynamics, 2020, 15, .	0.7	26
64	A fractional derivative with two singular kernels and application to a heat conduction problem. Advances in Difference Equations, 2020, 2020, .	3.5	41
65	Numerical solution for generalized nonlinear fractional integro-differential equations with linear functional arguments using Chebyshev series. Advances in Difference Equations, 2020, 2020, .	3.5	64
66	A comparison study of two modified analytical approach for the solution of nonlinear fractional shallow water equations in fluid flow. AIMS Mathematics, 2020, 5, 3035-3055.	0.7	51
67	A comparative study for fractional chemical kinetics and carbon dioxide CO₂ absorbed into phenyl glycidyl ether problems. AIMS Mathematics, 2020, 5, 3201-3222.	0.7	11
68	Resource Efficient Clustering and Next Hop Knowledge Based Routing in Multiple Heterogeneous Wireless Sensor Networks. , 2020, , 85-104.		0
69	Economic and Commercial Aspects of IoT in Agriculture Digitization. Advances in Computational Intelligence and Robotics Book Series, 2020, , 160-168.	0.4	0
70	Chebyshev Operational Matrix Method for Lane-Emden Problem. Nonlinear Engineering, 2019, 8, 1-9.	1.4	15
71	Numerical investigation of MHD stagnation-point flow and heat transfer of sodium alginate non-Newtonian nanofluid. Nonlinear Engineering, 2019, 8, 179-192.	1.4	9
72	Solitary solutions for time-fractional nonlinear dispersive PDEs in the sense of conformable fractional derivative. Chaos, 2019, 29, 093102.	1.0	74

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73	A Robust Computational Algorithm of Homotopy Asymptotic Method for Solving Systems of Fractional Differential Equations. Journal of Computational and Nonlinear Dynamics, 2019, 14, .	0.7	62
74	Synthesis of ultra small iron oxide and doped iron oxide nanostructures and their antimicrobial activities. Journal of Taibah University for Science, 2019, 13, 280-285.	1.1	35
75	Atanganaâ€“Baleanu Derivative with Fractional Order Applied to the Gas Dynamics Equations. Studies in Systems, Decision and Control, 2019, , 235-251.	0.8	7
76	Numerical solutions of nonlinear fractional model arising in the appearance of the strip patterns in two-dimensional systems. Advances in Difference Equations, 2019, 2019, .	3.5	65
77	A Modified Analytical Approach for Fractional Discrete KdV Equations Arising in Particle Vibrations. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2018, 88, 95-106.	0.8	31
78	An efficient computational approach for time-fractional Rosenauâ€“Hyman equation. Neural Computing and Applications, 2018, 30, 3063-3070.	3.2	47
79	Analytical solutions of the Keller-Segel chemotaxis model involving fractional operators without singular kernel. European Physical Journal Plus, 2018, 133, 1.	1.2	32
80	Analytical solution for mixed convection and MHD flow of electrically conducting non-Newtonian nanofluid with different nanoparticles: A comparative study. International Journal of Heat and Technology, 2018, 36, 987-996.	0.3	7
81	A study on the convergence conditions of generalized differential transform method. Mathematical Methods in the Applied Sciences, 2017, 40, 40-48.	1.2	36
82	A new approximate analytical technique for dual solutions of nonlinear differential equations arising in mixed convection heat transfer in a porous medium. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 486-503.	1.6	25
83	A nonlinear fractional model to describe the population dynamics of two interacting species. Mathematical Methods in the Applied Sciences, 2017, 40, 4134-4148.	1.2	71
84	Residual Power Series Method for Fractional Diffusion Equations. Fundamenta Informaticae, 2017, 151, 213-230.	0.3	62
85	Monotone Convergence of Extended Iterative Methods and Fractional Calculus with Applications. Fundamenta Informaticae, 2017, 151, 241-253.	0.3	15
86	An analytical method with PadÃ© technique for solving of variational problems. Nonlinear Engineering, 2017, 6, .	1.4	0
87	A new analysis for the Keller-Segel model of fractional order. Numerical Algorithms, 2017, 75, 213-228.	1.1	52
88	Shallow Water Wave Models with and without Singular Kernel: Existence, Uniqueness, and Similarities. Mathematical Problems in Engineering, 2017, 2017, 1-9.	0.6	9
89	Resource Efficient Clustering and Next Hop Knowledge Based Routing in Multiple Heterogeneous Wireless Sensor Networks. International Journal of Grid and High Performance Computing, 2017, 9, 1-20.	0.7	23
90	Energy Efficient Multichannel MAC Protocol for High Traffic Applications in Heterogeneous Wireless Sensor Networks. Recent Advances in Electrical and Electronic Engineering, 2017, 10, .	0.2	9

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91	Residual power series method for fractional Burger types equations. Nonlinear Engineering, 2016, 5, .	1.4	15
92	Homotopy analysis transform algorithm to solve time-fractional foam drainage equation. Nonlinear Engineering, 2016, 5, .	1.4	5
93	Fractional modelling arising in unidirectional propagation of long waves in dispersive media. Advances in Nonlinear Analysis, 2016, 5, 383-394.	1.3	33
94	Two analytical methods for time-fractional nonlinear coupled Boussinesqâ€“Burgerâ€™s equations arise in propagation of shallow water waves. Nonlinear Dynamics, 2016, 85, 699-715.	2.7	164
95	Mathematical modeling of gas phase and biofilm phase biofilter performance. Egyptian Journal of Basic and Applied Sciences, 2016, 3, 94-105.	0.2	10
96	Synthesis and Use of Low-Band-Gap ZnO Nanoparticles for Water Treatment. Arabian Journal for Science and Engineering, 2016, 41, 2393-2398.	1.1	37
97	On the approximate solution of nonlinear time-fractional KdV equation via modified homotopy analysis Laplace transform method. Journal of Nonlinear Science and Applications, 2016, 09, 5463-5470.	0.4	17
98	Residual power series method for time-fractional SchrÃ¶dinger equations. Journal of Nonlinear Science and Applications, 2016, 09, 5821-5829.	0.4	53
99	Sumudu transform series expansion method for solving the local fractional Laplace equation in fractal thermal problems. Thermal Science, 2016, 20, 739-742.	0.5	10
100	Residual power series method for fractional Sharma-Tasso-Olever equation. Communications in Numerical Analysis, 2016, 2016, 1-10.	0.1	36
101	An NS3 Implementation of Physical Layer Based on 802.11 for Utility Maximization of WSN. , 2015, , .		12
102	A modified homotopy analysis method for solution of fractional wave equations. Advances in Mechanical Engineering, 2015, 7, 168781401562033.	0.8	38
103	EMEEDP: Enhanced Multi-hop Energy Efficient Distributed Protocol for Heterogeneous Wireless Sensor Network. , 2015, , .		13
104	A fractional model to describe the Brownian motion of particles and its analytical solution. Advances in Mechanical Engineering, 2015, 7, 168781401561887.	0.8	25
105	Numerical computation of nonlinear shock wave equation of fractional order. Ain Shams Engineering Journal, 2015, 6, 605-611.	3.5	35
106	Synthesis of reduced graphene oxide (rGO) via chemical reduction. AIP Conference Proceedings, 2015, , .	0.3	29
107	Numerical computation of fractional multi-dimensional diffusion equations by using a modified homotopy perturbation method. Journal of the Association of Arab Universities for Basic and Applied Sciences, 2015, 17, 20-26.	1.0	15
108	A fractional model of Navierâ€“Stokes equation arising in unsteady flow of a viscous fluid. Journal of the Association of Arab Universities for Basic and Applied Sciences, 2015, 17, 14-19.	1.0	32

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109	Analytical expressions for the concentration of nitric oxide removal in the gas and biofilm phase in a biotrickling filter. Journal of the Association of Arab Universities for Basic and Applied Sciences, 2015, 18, 19-28.	1.0	1
110	Analytical solution of Abel integral equation arising in astrophysics via Laplace transform. Journal of the Egyptian Mathematical Society, 2015, 23, 102-107.	0.6	24
111	Energy Aware Distributed Protocol for Heterogeneous Wireless Sensor Network. International Journal of Control and Automation, 2015, 8, 421-430.	0.3	12
112	Analytical modeling for fractional multi-dimensional diffusion equations by using Laplace transform. Communications in Numerical Analysis, 2015, 2015, 16-29.	0.1	10
113	A new mathematical model for effectiveness factors in biofilm under toxic conditions. AEJ - Alexandria Engineering Journal, 2014, 53, 917-928.	3.4	6
114	Parametric Analysis of Entropy Generation in Off-centered Stagnation Flow Towards a Rotating Disc. Nonlinear Engineering, 2014, 3, 27-41.	1.4	7
115	Reduced differential transform method for solving (1+n) â€“ Dimensional Burgers' equation. Egyptian Journal of Basic and Applied Sciences, 2014, 1, 115-119.	0.2	26
116	Numerical computation of fractional Blackâ€“Scholes equation arising in financial market. Egyptian Journal of Basic and Applied Sciences, 2014, 1, 177-183.	0.2	74
117	An accurate numerical method for solving the linear fractional Kleinâ€“Gordon equation. Mathematical Methods in the Applied Sciences, 2014, 37, 2972-2979.	1.2	23
118	A New Fractional Modelling on Susceptible-Infected-Recovered Equations with Constant Vaccination Rate. Nonlinear Engineering, 2014, 3, 11-19.	1.4	22
119	Bernstein Operational Matrix Approach for Integro-Differential Equation Arising in Control theory. Nonlinear Engineering, 2014, 3, .	1.4	4
120	A New Fractional Model of Nonlinear Shock Wave Equation Arising in Flow of Gases. Nonlinear Engineering, 2014, 3, 43-50.	1.4	15
121	Analytical expression for concentration and sensitivity of a thin film semiconductor gas sensor. Ain Shams Engineering Journal, 2014, 5, 885-893.	3.5	17
122	Fractional modelling for BBM-Burger equation by using new homotopy analysis transform method. Journal of the Association of Arab Universities for Basic and Applied Sciences, 2014, 16, 16-20.	1.0	18
123	Energy optimization technique for distributed localized wireless sensor network. , 2014, , .		10
124	Analytical approximations of two and three dimensional time-fractional telegraphic equation by reduced differential transform method. Egyptian Journal of Basic and Applied Sciences, 2014, 1, 60-66.	0.2	39
125	New analytical method for gas dynamics equation arising in shock fronts. Computer Physics Communications, 2014, 185, 1947-1954.	3.0	133
126	A new analytical modelling for fractional telegraph equation via Laplace transform. Applied Mathematical Modelling, 2014, 38, 3154-3163.	2.2	235

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127	New homotopy analysis transform algorithm to solve volterra integral equation. Ain Shams Engineering Journal, 2014, 5, 243-246.	3.5	40
128	Analytical study for singular system of transistor circuits. AEJ - Alexandria Engineering Journal, 2014, 53, 445-448.	3.4	5
129	Two-dimensional time fractional-order biological population model and its analytical solution. Egyptian Journal of Basic and Applied Sciences, 2014, 1, 71-76.	0.2	48
130	Numerical approximation for HIV infection of CD4+ T cells mathematical model. Ain Shams Engineering Journal, 2014, 5, 625-629.	3.5	40
131	Analytical solution of fractional Navierâ€“Stokes equation by using modified Laplace decomposition method. Ain Shams Engineering Journal, 2014, 5, 569-574.	3.5	116
132	Numerical computation of nonlinear fractional Zakharovâ€“Kuznetsov equation arising in ion-acoustic waves. Journal of the Egyptian Mathematical Society, 2014, 22, 373-378.	0.6	34
133	Numerical computation of Kleinâ€“Gordon equations arising in quantum field theory by using homotopy analysis transform method. AEJ - Alexandria Engineering Journal, 2014, 53, 469-474.	3.4	46
134	An analytical algorithm for nonlinear fractional Fornbergâ€“Whitham equation arising in wave breaking based on a new iterative method. AEJ - Alexandria Engineering Journal, 2014, 53, 225-231.	3.4	13
135	A numerical algorithm for solving an inverse semilinear wave problem. International Journal of Computing Science and Mathematics, 2014, 5, 1.	0.2	5
136	Variational Iteration Method for Generalized Pantograph Equation with Convergence Analysis. Discontinuity, Nonlinearity, and Complexity, 2014, 3, 109-121.	0.1	0
137	A new fractional modeling arising in engineering sciences and its analytical approximate solution. AEJ - Alexandria Engineering Journal, 2013, 52, 813-819.	3.4	72
138	New homotopy analysis transform method for solving the discontinued problems arising in nanotechnology. Chinese Physics B, 2013, 22, 110201.	0.7	33
139	Fractional-order Legendre functions for solving fractional-order differential equations. Applied Mathematical Modelling, 2013, 37, 5498-5510.	2.2	259
140	A fractional model of Harry Dym equation and its approximate solution. Ain Shams Engineering Journal, 2013, 4, 111-115.	3.5	23
141	Peakonâ€“antipeakon interaction in the Dullinâ€“Gottwaldâ€“Holm equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 1233-1238.	0.9	5
142	New treatment of fractional Fornbergâ€“Whitham equation via Laplace transform. Ain Shams Engineering Journal, 2013, 4, 557-562.	3.5	50
143	Effects of Alkaline Earth Metal Ions on Thermodynamic and Ultrasonic Properties of Ascorbic Acid. Journal of Chemical & Engineering Data, 2013, 58, 1294-1300.	1.0	22
144	A Numerical Study for the Solution of Time Fractional Nonlinear Shallow Water Equation in Oceans. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2013, 68, 547-553.	0.7	28

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145	Numerical Computation of Time-Fractional Fokkerâ€“Planck Equation Arising in Solid State Physics and Circuit Theory Numerical Computation of Time-Fractional Fokkerâ€“Planck Equation Arising in Solid State Physics and Circuit Theory. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2013, 68, 777-784.	0.7	21
146	Surface Functionalization of Sisal Fibers Using Peroxide Treatment Followed by Grafting of Poly(ethyl acrylate) and Copolymers. International Journal of Polymer Analysis and Characterization, 2013, 18, 596-607.	0.9	9
147	On the Support of Solutions to a Two-Dimensional Nonlinear Wave Equation. Journal of Mathematics, 2013, 2013, 1-4.	0.5	0
148	Symmetry Reduction, Exact Solutions, and Conservation Laws of the ZK-BBM Equation. ISRN Mathematical Analysis, 2012, 2012, 1-9.	0.3	0
149	The Extended Fractional Subequation Method for Nonlinear Fractional Differential Equations. Mathematical Problems in Engineering, 2012, 2012, 1-11.	0.6	16
150	A Fractional Model of Gas Dynamics Equations and its Analytical Approximate Solution Using Laplace Transform. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2012, 67, 389-396.	0.7	49
151	A numerical study based on an implicit fully discrete local discontinuous Galerkin method for the time-fractional coupled SchrÃ¶dinger system. Computers and Mathematics With Applications, 2012, 64, 2603-2615.	1.4	61
152	A mathematical modeling arising in the chemical systems and its approximate numerical solution. Asia-Pacific Journal of Chemical Engineering, 2012, 7, 835-840.	0.8	30
153	A stable numerical inversion of generalized AbelÊ¼s integral equation. Applied Numerical Mathematics, 2012, 62, 567-579.	1.2	10
154	A new analytical solution procedure for nonlinear integral equations. Mathematical and Computer Modelling, 2012, 55, 1892-1897.	2.0	39
155	Numerical Inversion of the Abel Integral Equation using Homotopy Perturbation Method. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2010, 65, 677-682.	0.7	32
156	Molar volume, viscosity and conductance studies of some alkali metal chlorides in aqueous ascorbic acid. Journal of Molecular Liquids, 2009, 150, 39-42.	2.3	30
157	A fractional model for propagation of classical optical solitons by using nonsingular derivative. Mathematical Methods in the Applied Sciences, 0, , .	1.2	98