Alaattin Esen

List of Publications by Year
in descending order

71 papers	1,633 citations	304743 22 h-index	315739 38 g-index
71 all docs	71 docs citations	71 times ranked	725 citing authors

#	Article	IF	Citations
1	An application of Chebyshev wavelet method for the nonlinear time fractional Schrödinger equation. Mathematical Methods in the Applied Sciences, 2022, 45, 6635-6649.	2.3	6
2	Higher order Haar wavelet method integrated with strang splitting for solving regularized long wave equation. Mathematics and Computers in Simulation, 2022, 197, 277-290.	4.4	18
3	Finite difference method combined with differential quadrature method for numerical computation of the modified equal width wave equation. Numerical Methods for Partial Differential Equations, 2021, 37, 690-706.	3.6	13
4	Single soliton and double soliton solutions of the quadratic‐nonlinear Korteweg‐de Vries equation for small and long‐times. Numerical Methods for Partial Differential Equations, 2021, 37, 1561-1582.	3.6	9
5	Numerical solutions of Boussinesq equation using Galerkin finite element method. Numerical Methods for Partial Differential Equations, 2021, 37, 1612-1630.	3.6	5
6	A new perspective for the numerical solution of the Modified Equal Width wave equation. Mathematical Methods in the Applied Sciences, 2021, 44, 8925-8939.	2.3	7
7	Highly accurate numerical scheme based on polynomial scaling functions for equal width equation. Wave Motion, 2021, 105, 102760.	2.0	7
8	Dynamics of modified improved Boussinesq equation via Galerkin Finite Element Method. Mathematical Methods in the Applied Sciences, 2020, 43, 10204-10220.	2.3	9
9	A Strang Splitting Approach Combined with Chebyshev Wavelets to Solve the Regularized Long-Wave Equation Numerically. Mediterranean Journal of Mathematics, 2020, 17, 1.	0.8	17
10	A Crank-Nicolson Approximation for the time Fractional Burgers Equation. Applied Mathematics and Nonlinear Sciences, 2020, 5, 177-184.	1.6	27
11	Singular solitons in the pseudo-parabolic model arising in nonlinear surface waves. Results in Physics, 2019, 12, 1712-1715.	4.1	30
12	A haar wavelet approximation for two-dimensional time fractional reaction–subdiffusion equation. Engineering With Computers, 2019, 35, 75-86.	6.1	53
13	Exact solutions of nonlinear evolution equations using the extended modified Exp(-$Omega (xi)$) function method. Tbilisi Mathematical Journal, 2019, 12, .	0.3	2
14	A unified finite difference Chebyshev wavelet method for numerically solving time fractional Burgers' equation. Discrete and Continuous Dynamical Systems - Series S, 2019, 12, 533-542.	1.1	17
15	A Lumped Galerkin finite element method for the generalized Hirota-Satsuma coupled KdV and coupled MKdV equations. Tbilisi Mathematical Journal, 2019, 12, .	0.3	5
16	Collocation solutions for the time fractional telegraph equation using cubic B-spline finite elements. Annals of the West University of Timisoara: Mathematics and Computer Science, 2019, 57, 131-144.	0.1	1
17	Optical solitons to the space-time fractional (1+1)-dimensional coupled nonlinear Schrödinger equation. Optik, 2018, 167, 150-156.	2.9	155
18	A new perspective for quintic B-spline based Crank-Nicolson-differential quadrature method algorithm for numerical solutions of the nonlinear Schrödinger equation. European Physical Journal Plus, 2018, 133, 1.	2.6	32

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19	The Hunter–Saxton Equation: A Numerical Approach Using Collocation Method. Numerical Methods for Partial Differential Equations, 2018, 34, 1637-1644.	3.6	8
20	Novel Exact Solutions of the Extended Shallow Water Wave and the Fokas Equations. ITM Web of Conferences, 2018, 22, 01022.	0.5	0
21	A Fresh Look To Exact Solutions of Some Coupled Equations. ITM Web of Conferences, 2018, 22, 01006.	0.5	1
22	A new perspective for the numerical solutions of the cmKdV equation via modified cubic B-spline differential quadrature method. International Journal of Modern Physics C, 2018, 29, 1850043.	1.7	23
23	Chebyshev Wavelet Method for Numerical Solutions of Coupled Burgers Equation. Hacettepe Journal of Mathematics and Statistics, 2018, 48, .	0.3	6
24	Numerical solutions of the improved boussinesq equation by the galerkin quadratic B-spline finite element method. Filomat, 2018, 32, 5573-5583.	0.5	10
25	An application of finite element method for a moving boundary problem. Thermal Science, 2018, 22, 25-32.	1.1	3
26	Numerical Solution of Time Fractional Schrödinger Equation by Using Quadratic B-Spline Finite Elements. Annales Mathematicae Silesianae, 2017, 31, 83-98.	0.2	16
27	An effective approach to numerical soliton solutions for the Schrödinger equation via modified cubic B-spline differential quadrature method. Chaos, Solitons and Fractals, 2017, 100, 45-56.	5.1	42
28	A study on the improved $\tan(\varphi(\xi)/2)$ –expansion method. ITM Web of Conferences, 2017, 13, 01031.	0.5	3
29	A numerical treatment based on Haar wavelets for coupled KdV equation. International Journal of Optimization and Control: Theories and Applications, 2017, 7, 195-204.	1.7	11
30	Numerical solution of the KdV equation by Haar wavelet method. Pramana - Journal of Physics, 2016, 87, 1.	1.8	22
31	Numerical solution of the complex modified Korteweg-de Vries equation by DQM. Journal of Physics: Conference Series, 2016, 766, 012028.	0.4	15
32	Double exp-function method for multisoliton solutions of the Tzitzeica-Dodd-Bullough equation. Acta Mathematicae Applicatae Sinica, 2016, 32, 461-468.	0.7	4
33	A unified approach for the numerical solution of time fractional Burgers' type equations. European Physical Journal Plus, 2016, 131, 1.	2.6	29
34	Numerical Solutions of Regularized Long Wave Equation By Haar Wavelet Method. Mediterranean Journal of Mathematics, 2016, 13, 3235-3253.	0.8	52
35	A Haar wavelet collocation method for coupled nonlinear Schrödinger–KdV equations. International Journal of Modern Physics C, 2016, 27, 1650103.	1.7	21
36	Numerical Solution of Time Fractional Burgers Equation by Cubic B-spline Finite Elements. Mediterranean Journal of Mathematics, 2016, 13, 1325-1337.	0.8	59

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37	Numerical Solutions of the Sine-Gordon Equation by Collocation Method. Sohag Journal of Mathematics, 2016, 3, 1-6.	0.1	2
38	A B-spline collocation method for solving fractional diffusion and fractional diffusion-wave equations. Tbilisi Mathematical Journal, 2015, 8, .	0.3	12
39	Cubic B-spline collocation method for solving time fractional gas dynamics equation. Tbilisi Mathematical Journal, 2015, 8, .	0.3	2
40	Numerical solution of time fractional Burgers equation. Acta Universitatis Sapientiae, Mathematica, 2015, 7, 167-185.	0.2	28
41	An approach to time fractional gas dynamics equation: Quadratic B-spline Galerkin method. Applied Mathematics and Computation, 2015, 261, 330-336.	2.2	6
42	A Haar wavelet-finite difference hybrid method for the numerical solution of the modified Burgers' equation. Journal of Mathematical Chemistry, 2015, 53, 1592-1607.	1.5	62
43	A new approach on numerical solutions of the Improved Boussinesq type equation using quadratic B-spline Galerkin finite element method. Applied Mathematics and Computation, 2015, 270, 148-155.	2.2	10
44	A Numerical Solution to Fractional Diffusion Equation for Force-Free Case. Abstract and Applied Analysis, 2013, 2013, 1-6.	0.7	18
45	A GALERKIN FINITE ELEMENT METHOD TO SOLVE FRACTIONAL DIFFUSION AND FRACTIONAL DIFFUSION-WAVE EQUATIONS. Mathematical Modelling and Analysis, 2013, 18, 260-273.	1.5	41
46	Approximate Analytical Solution to Time-Fractional Damped Burger and Cahn-Allen Equations. Applied Mathematics and Information Sciences, 2013, 7, 1951-1956.	0.5	43
47	The -expansion method for some nonlinear evolution equations. Applied Mathematics and Computation, 2010, 217, 384-391.	2.2	14
48	Application of the Exp-function method to the two dimensional sine-Gordon equation. International Journal of Nonlinear Sciences and Numerical Simulation, 2009, 10, .	1.0	10
49	New Solitary Solutions for the Generalized RLW Equation by He's Exp-fiinction Method. International Journal of Nonlinear Sciences and Numerical Simulation, 2009, 10, .	1.0	7
50	Exp-function Method for Solving the General Improved KdV Equation. International Journal of Nonlinear Sciences and Numerical Simulation, 2009, 10, .	1.0	17
51	Solitary wave solutions of the modified equal width wave equation. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 1538-1546.	3.3	46
52	A linearized implicit finite-difference method for solving the equal width wave equation. International Journal of Computer Mathematics, 2006, 83, 319-330.	1.8	13
53	A lumped Galerkin method for the numerical solution of the modified equal-width wave equation using quadratic B-splines. International Journal of Computer Mathematics, 2006, 83, 449-459.	1.8	40
54	A finite difference solution of the regularized long-wave equation. Mathematical Problems in Engineering, 2006, 2006, 1-14.	1.1	59

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55	Application of a lumped Galerkin method to the regularized long wave equation. Applied Mathematics and Computation, 2006, 174, 833-845.	2.2	84
56	A heat balance integral solution of the thermistor problem with a modified electrical conductivity. Applied Mathematical Modelling, 2006, 30, 386-394.	4.2	12
57	Finite element solution of the thermistor problem with a ramp electrical conductivity. Applied Mathematics and Computation, 2005, 161, 897-913.	2.2	0
58	Numerical solutions of the thermistor problem by spline finite elements. Applied Mathematics and Computation, 2005, 162, 475-489.	2.2	0
59	Finite element approaches to the PTC thermistor problem. Applied Mathematics and Computation, 2005, 163, 147-162.	2.2	3
60	Numerical solution of Burgers' equation by quadratic B-spline finite elements. Applied Mathematics and Computation, 2005, 165, 237-249.	2.2	44
61	A numerical solution of the equal width wave equation by a lumped Galerkin method. Applied Mathematics and Computation, 2005, 168, 270-282.	2.2	44
62	A lumped Galerkin method for solving the Burgers equation. International Journal of Computer Mathematics, 2004, 81, 1433-1444.	1.8	24
63	A numerical solution of the Stefan problem with a Neumann-type boundary condition by enthalpy method. Applied Mathematics and Computation, 2004, 148, 321-329.	2.2	40
64	An isotherm migration formulation for one-phase Stefan problem with a time dependent Neumann condition. Applied Mathematics and Computation, 2004, 150, 59-67.	2.2	13
65	A variational approximation to the problem of the deflection of a bar. Applied Mathematics and Computation, 2004, 150, 525-531.	2.2	0
66	A linearized numerical scheme for Burgers-like equations. Applied Mathematics and Computation, 2004, 156, 295-305.	2.2	19
67	A B-spline finite element method for the thermistor problem with the modified electrical conductivity. Applied Mathematics and Computation, 2004, 156, 621-632.	2.2	4
68	Numerical solutions of the Burgers' equation by the least-squares quadratic B-spline finite element method. Journal of Computational and Applied Mathematics, 2004, 167, 21-33.	2.0	168
69	Quadratic B-Spline Galerkin Method for Numerical Solutions of Fractional Telegraph Equations. Bulletin of Mathematical Sciences and Applications, 0, 18, 23-39.	0.0	5
70	A New Perspective on The Numerical Solution for Fractional Klein Gordon Equation. Journal of Polytechnic, 0, , .	0.7	0
71	Numerical investigation of dynamic Euler-Bernoulli equation via 3-Scale Haar wavelet collocation method. , 0, , 1-21.	1.0	5