

Alaattin Esen

List of Publications by Year in descending order

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71
papers

1,633
citations

304743

22
h-index

315739

38
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all docs

71
docs citations

71
times ranked

725
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical solutions of the Burgers's equation by the least-squares quadratic B-spline finite element method. Journal of Computational and Applied Mathematics, 2004, 167, 21-33.	2.0	168
2	Optical solitons to the space-time fractional (1+1)-dimensional coupled nonlinear Schrödinger equation. Optik, 2018, 167, 150-156.	2.9	155
3	Application of a lumped Galerkin method to the regularized long wave equation. Applied Mathematics and Computation, 2006, 174, 833-845.	2.2	84
4	A Haar wavelet-finite difference hybrid method for the numerical solution of the modified Burgers's equation. Journal of Mathematical Chemistry, 2015, 53, 1592-1607.	1.5	62
5	A finite difference solution of the regularized long-wave equation. Mathematical Problems in Engineering, 2006, 2006, 1-14.	1.1	59
6	Numerical Solution of Time Fractional Burgers Equation by Cubic B-spline Finite Elements. Mediterranean Journal of Mathematics, 2016, 13, 1325-1337.	0.8	59
7	A haar wavelet approximation for two-dimensional time fractional reaction-subdiffusion equation. Engineering With Computers, 2019, 35, 75-86.	6.1	53
8	Numerical Solutions of Regularized Long Wave Equation By Haar Wavelet Method. Mediterranean Journal of Mathematics, 2016, 13, 3235-3253.	0.8	52
9	Solitary wave solutions of the modified equal width wave equation. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 1538-1546.	3.3	46
10	Numerical solution of Burgers's equation by quadratic B-spline finite elements. Applied Mathematics and Computation, 2005, 165, 237-249.	2.2	44
11	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
12	Approximate Analytical Solution to Time-Fractional Damped Burger and Cahn-Allen Equations. Applied Mathematics and Information Sciences, 2013, 7, 1951-1956.	0.5	43
13	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
14	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
15	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
16	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
17	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
18	Singular solitons in the pseudo-parabolic model arising in nonlinear surface waves. Results in Physics, 2019, 12, 1712-1715.	4.1	30

#	ARTICLE	IF	CITATIONS
19	A unified approach for the numerical solution of time fractional Burgers's type equations. <i>European Physical Journal Plus</i> , 2016, 131, 1.	2.6	29
20	Numerical solution of time fractional Burgers equation. <i>Acta Universitatis Sapientiae, Mathematica</i> , 2015, 7, 167-185.	0.2	28
21	A Crank-Nicolson Approximation for the time Fractional Burgers Equation. <i>Applied Mathematics and Nonlinear Sciences</i> , 2020, 5, 177-184.	1.6	27
22	A lumped Galerkin method for solving the Burgers equation. <i>International Journal of Computer Mathematics</i> , 2004, 81, 1433-1444.	1.8	24
23	A new perspective for the numerical solutions of the cmKdV equation via modified cubic B-spline differential quadrature method. <i>International Journal of Modern Physics C</i> , 2018, 29, 1850043.	1.7	23
24	Numerical solution of the KdV equation by Haar wavelet method. <i>Pramana - Journal of Physics</i> , 2016, 87, 1.	1.8	22
25	A Haar wavelet collocation method for coupled nonlinear Schrödinger-KdV equations. <i>International Journal of Modern Physics C</i> , 2016, 27, 1650103.	1.7	21
26	A linearized numerical scheme for Burgers-like equations. <i>Applied Mathematics and Computation</i> , 2004, 156, 295-305.	2.2	19
27	A Numerical Solution to Fractional Diffusion Equation for Force-Free Case. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-6.	0.7	18
28	Higher order Haar wavelet method integrated with strang splitting for solving regularized long wave equation. <i>Mathematics and Computers in Simulation</i> , 2022, 197, 277-290.	4.4	18
29	Exp-function Method for Solving the General Improved KdV Equation. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2009, 10, .	1.0	17
30	A Strang Splitting Approach Combined with Chebyshev Wavelets to Solve the Regularized Long-Wave Equation Numerically. <i>Mediterranean Journal of Mathematics</i> , 2020, 17, 1.	0.8	17
31	A unified finite difference Chebyshev wavelet method for numerically solving time fractional Burgers' equation. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2019, 12, 533-542.	1.1	17
32	Numerical Solution of Time Fractional Schrödinger Equation by Using Quadratic B-Spline Finite Elements. <i>Annales Mathematicae Silesianae</i> , 2017, 31, 83-98.	0.2	16
33	Numerical solution of the complex modified Korteweg-de Vries equation by DQM. <i>Journal of Physics: Conference Series</i> , 2016, 766, 012028.	0.4	15
34	The -expansion method for some nonlinear evolution equations. <i>Applied Mathematics and Computation</i> , 2010, 217, 384-391.	2.2	14
35	An isotherm migration formulation for one-phase Stefan problem with a time dependent Neumann condition. <i>Applied Mathematics and Computation</i> , 2004, 150, 59-67.	2.2	13
36	A linearized implicit finite-difference method for solving the equal width wave equation. <i>International Journal of Computer Mathematics</i> , 2006, 83, 319-330.	1.8	13

#	ARTICLE	IF	CITATIONS
37	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
38	A heat balance integral solution of the thermistor problem with a modified electrical conductivity. Applied Mathematical Modelling, 2006, 30, 386-394.	4.2	12
39	A B-spline collocation method for solving fractional diffusion and fractional diffusion-wave equations. Tbilisi Mathematical Journal, 2015, 8, .	0.3	12
40	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
41	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
42	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
43	Numerical solutions of the improved boussinesq equation by the galerkin quadratic B-spline finite element method. Filomat, 2018, 32, 5573-5583.	0.5	10
44	Dynamics of modified improved Boussinesq equation via Galerkin Finite Element Method. Mathematical Methods in the Applied Sciences, 2020, 43, 10204-10220.	2.3	9
45	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
46	The Hunter-Saxton Equation: A Numerical Approach Using Collocation Method. Numerical Methods for Partial Differential Equations, 2018, 34, 1637-1644.	3.6	8
47	New Solitary Solutions for the Generalized RLW Equation by He's Exp-function Method. International Journal of Nonlinear Sciences and Numerical Simulation, 2009, 10, .	1.0	7
48	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
49	Highly accurate numerical scheme based on polynomial scaling functions for equal width equation. Wave Motion, 2021, 105, 102760.	2.0	7
50	An approach to time fractional gas dynamics equation: Quadratic B-spline Galerkin method. Applied Mathematics and Computation, 2015, 261, 330-336.	2.2	6
51	Chebyshev Wavelet Method for Numerical Solutions of Coupled Burgers Equation. Hacettepe Journal of Mathematics and Statistics, 2018, 48, .	0.3	6
52	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
53	Numerical solutions of Boussinesq equation using Galerkin finite element method. Numerical Methods for Partial Differential Equations, 2021, 37, 1612-1630.	3.6	5
54	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

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55	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
56	Numerical investigation of dynamic Euler-Bernoulli equation via 3-Scale Haar wavelet collocation method. , 0, , 1-21.	1.0	5
57	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
58	Double exp-function method for multisoliton solutions of the Tzitzeica-Dodd-Bullough equation. Acta Mathematicae Applicatae Sinica, 2016, 32, 461-468.	0.7	4
59	Finite element approaches to the PTC thermistor problem. Applied Mathematics and Computation, 2005, 163, 147-162.	2.2	3
60	A study on the improved $\tan(\langle i \rangle \cdot (\hat{1}^{3/4}) \langle i \rangle / 2) \hat{a}^{\wedge}$ expansion method. ITM Web of Conferences, 2017, 13, 01031.	0.5	3
61	An application of finite element method for a moving boundary problem. Thermal Science, 2018, 22, 25-32.	1.1	3
62	Cubic B-spline collocation method for solving time fractional gas dynamics equation. Tbilisi Mathematical Journal, 2015, 8, .	0.3	2
63	Exact solutions of nonlinear evolution equations using the extended modified Exp(- Ω (xi)) function method. Tbilisi Mathematical Journal, 2019, 12, .	0.3	2
64	Numerical Solutions of the Sine-Gordon Equation by Collocation Method. Sohag Journal of Mathematics, 2016, 3, 1-6.	0.1	2
65	A Fresh Look To Exact Solutions of Some Coupled Equations. ITM Web of Conferences, 2018, 22, 01006.	0.5	1
66	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
67	A variational approximation to the problem of the deflection of a bar. Applied Mathematics and Computation, 2004, 150, 525-531.	2.2	0
68	Finite element solution of the thermistor problem with a ramp electrical conductivity. Applied Mathematics and Computation, 2005, 161, 897-913.	2.2	0
69	Numerical solutions of the thermistor problem by spline finite elements. Applied Mathematics and Computation, 2005, 162, 475-489.	2.2	0
70	Novel Exact Solutions of the Extended Shallow Water Wave and the Fokas Equations. ITM Web of Conferences, 2018, 22, 01022.	0.5	0
71	A New Perspective on The Numerical Solution for Fractional Klein Gordon Equation. Journal of Polytechnic, 0, , .	0.7	0