

Ã-zlem Ersoy Hepson

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A computational method for nonlinear Burgersâ€™ equation using quartic-trigonometric tension B-splines. <i>Mathematical Sciences</i> , 2024, 18, 17-28.	1.7	0
2	A quartic trigonometric tension B-spline finite element method for solving Gardner equation. <i>Numerical Methods for Partial Differential Equations</i> , 2022, 38, 1055-1067.	3.6	1
3	A higher-order efficient approach to numerical simulations of the RLW equation. <i>Pramana - Journal of Physics</i> , 2022, 96, 1.	1.8	2
4	Hyperbolic-trigonometric tension B-spline Galerkin approach for the solution of RLW equation. <i>AIP Conference Proceedings</i> , 2021, , .	0.4	6
5	Hyperbolic-trigonometric tension B-spline Galerkin approach for the solution of Fisher equation. <i>AIP Conference Proceedings</i> , 2021, , .	0.4	3
6	Numerical Investigations of Physical Processes for Regularized Long Wave Equation. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 710-724.	0.6	7
7	Numerical simulations of Kuramotoâ€™Sivashinsky equation in reaction-diffusion via Galerkin method. <i>Mathematical Sciences</i> , 2021, 15, 199-206.	1.7	9
8	Numerical simulations of reactionâ€™diffusion systems in biological and chemical mechanisms with quartic-trigonometric B-splines. <i>Computational and Applied Mathematics</i> , 2021, 40, 1.	2.2	5
9	Quartic-trigonometric tension B-spline Galerkin method for the solution of the advection-diffusion equation. <i>Computational and Applied Mathematics</i> , 2021, 40, 1.	2.2	4
10	Numerical investigation of the solutions of Schrödinger equation with exponential cubic B-spline finite element method. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2021, 22, 119-133.	1.0	4
11	Solitary waves of the RLW equation via least squares method. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2021, , .	1.0	1
12	Sine-Gordon expansion method for exact solutions to conformable time fractional equations in RLW-class. <i>Journal of King Saud University - Science</i> , 2020, 32, 567-574.	3.5	104
13	Exponential B-spline collocation solutions to the Gardner equation. <i>International Journal of Computer Mathematics</i> , 2020, 97, 837-850.	1.8	9
14	A quartic trigonometric tension b-spline algorithm for nonlinear partial differential equation system. <i>Engineering Computations</i> , 2020, ahead-of-print, .	1.4	3
15	Finite Element Method for Schnakenberg Model. <i>Advances in Dynamics, Patterns, Cognition</i> , 2019, , 41-51.	0.3	2
16	A cubic subdomain Galerkin method over the geometrically graded mesh to the singularly perturbed problem. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	3
17	Hyperbolic tangent solution to the conformable time fractional Zakharov-Kuznetsov equation in 3D space. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	4
18	Traveling waves in rational expressions of exponential functions to the conformable time fractional Jimboâ€™Miwa and Zakharovâ€™Kuznetsov equations. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	3.3	5

#	ARTICLE	IF	CITATIONS
19	Exponential Twice Continuously Differentiable B-Spline Algorithm for Burgersâ€™ Equation. Ukrainian Mathematical Journal, 2018, 70, 906-921.	0.5	6
20	Generation of the trigonometric cubic B-spline collocation solutions for the Kuramoto-Sivashinsky(KS) equation. AIP Conference Proceedings, 2018, , .	0.4	8
21	An extended cubic B-spline finite element method for solving generalized Burgersâ€™Fisher equation. AIP Conference Proceedings, 2018, , .	0.4	7
22	Numerical solutions of the Gardner equation by extended form of the cubic B-splines. Pramana - Journal of Physics, 2018, 91, 1.	1.8	10
23	Higher order trigonometric B-spline algorithms to the solution of coupled Burgersâ€™ equation. AIP Conference Proceedings, 2018, , .	0.4	5
24	On the numerical solution of the Klein-Gordon equation by exponential cubic B-spline collocation method. Communications Faculty of Science University of Ankara Series A1Mathematics and Statistics, 2018, 68, 412-421.	0.5	4
25	The exponential cubic B-spline algorithm for Fisher equation. Chaos, Solitons and Fractals, 2016, 86, 101-106.	5.1	41
26	Exponential B-Splines for Numerical Solutions to Some Boussinesq Systems for Water Waves. Mediterranean Journal of Mathematics, 2016, 13, 4975-4994.	0.8	13
27	The exponential cubic B-spline collocation method for the Kuramoto-Sivashinsky equation. Filomat, 2016, 30, 853-861.	0.5	23
28	Numerical solutions of the reaction diffusion system by using exponential cubic B-spline collocation algorithms. Open Physics, 2015, 13, .	1.7	26
29	The extended B-spline collocation method for numerical solutions of Fisher equation. AIP Conference Proceedings, 2015, , .	0.4	10
30	Numerical solution of generalized Burgers-Fisher equation by exponential cubic B-spline collocation method. AIP Conference Proceedings, 2015, , .	0.4	9
31	The Cubic B-spline Least Squares Finite Element Method for the Numerical Solutions of Regularized Long Wave Equation. International Journal of Computer Mathematics, 0, , 1-13.	1.8	2
32	An expansion based on Sine-Gordon equation to Solve KdV and modified KdV equations in conformable fractional forms. Boletim Da Sociedade Paranaense De Matematica, 0, 40, 1-10.	0.4	2
33	Integration of the RLW equation using higher-order predictorâ€™corrector scheme and quintic B-spline collocation method. Mathematical Sciences, 0, , .	1.7	0