Wang Yulan

List of Publications by Year
in descending order

38 papers	**511** citations	687363 **13** h-index	713466 **21** g-index
38 all docs	**38** docs citations	**38** times ranked	**211** citing authors

#	Article	IF	Citations
1	NUMERICAL SOLUTIONS OF SPACE FRACTIONAL VARIABLE-COEFFICIENT KdV–MODIFIED KdV EQUATION BY FOURIER SPECTRAL METHOD. Fractals, 2021, 29, .	3.7	51
2	New algorithm for second-order boundary value problems of integro-differential equation. Journal of Computational and Applied Mathematics, 2009, 229, 1-6.	2.0	50
3	Using reproducing kernel for solving a class of fractional partial differential equation with non-classical conditions. Applied Mathematics and Computation, 2013, 219, 5918-5925.	2.2	40
4	Using reproducing kernel for solving a class of singularly perturbed problems. Computers and Mathematics With Applications, 2011, 61, 421-430.	2.7	39
5	Using reproducing kernel for solving a class of singular weakly nonlinear boundary value problems. International Journal of Computer Mathematics, 2010, 87, 367-380.	1.8	38
6	Numerical Solution of a Class of Nonlinear Partial Differential Equations by Using Barycentric Interpolation Collocation Method. Mathematical Problems in Engineering, 2018, 2018, 1-10.	1.1	33
7	Using reproducing kernel for solving a class of partial differential equation with variable-coefficients. Applied Mathematics and Mechanics (English Edition), 2008, 29, 129-137.	3.6	32
8	Barycentric interpolation collocation method for solving the coupled viscous Burgers' equations. International Journal of Computer Mathematics, 2018, 95, 2162-2173.	1.8	30
9	A new method for solving singular fourth-order boundary value problems with mixed boundary conditions. Applied Mathematics and Computation, 2011, 217, 7385-7390.	2.2	25
10	A high-precision numerical approach to solving space fractional Gray-Scott model. Applied Mathematics Letters, 2022, 125, 107759.	2.7	22
11	Numerical method for singularly perturbed delay parabolic partial differential equations. Thermal Science, 2017, 21, 1595-1599.	1.1	15
12	Novel Patterns in Fractional-in-Space Nonlinear Coupled FitzHugh–Nagumo Models with Riesz Fractional Derivative. Fractal and Fractional, 2022, 6, 136.	3.3	15
13	Solving a class of linear nonlocal boundary value problems using the reproducing kernel. Applied Mathematics and Computation, 2015, 265, 1098-1105.	2.2	13
14	Numerical solution for a class of space-time fractional equation by the piecewise reproducing kernel method. International Journal of Computer Mathematics, 2019, 96, 2100-2111.	1.8	13
15	Numerical Solutions of Variable-Coefficient Fractional-in-Space KdV Equation with the Caputo Fractional Derivative. Fractal and Fractional, 2022, 6, 207.	3.3	13
16	Novel patterns in a class of fractional reaction–diffusion models with the Riesz fractional derivative. Mathematics and Computers in Simulation, 2022, 202, 149-163.	4.4	13
17	Using reproducing kernel for solving a class of time-fractional telegraph equation with initial value conditions. International Journal of Computer Mathematics, 2018, 95, 1609-1621.	1.8	11
18	Numerical Simulation of a Class of Hyperchaotic System Using Barycentric Lagrange Interpolation Collocation Method. Complexity, 2019, 2019, 1-13.	1.6	8

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19	An efficient computational method for a class of singularly perturbed delay parabolic partial differential equation. International Journal of Computer Mathematics, 2011, 88, 3496-3506.	1.8	7
20	Numerical Simulation of a Class of Three-Dimensional Kolmogorov Model with Chaotic Dynamic Behavior by Using Barycentric Interpolation Collocation Method. Complexity, 2019, 2019, 1-14.	1.6	6
21	Using the iterative reproducing kernel method for solving a class of nonlinear fractional differential equations. International Journal of Computer Mathematics, 2017, 94, 2558-2572.	1.8	5
22	Numerical solution of integro-differential equations of high-order Fredholm by the simplified reproducing kernel method. International Journal of Computer Mathematics, 2019, 96, 585-593.	1.8	5
23	Efficient solution of a class of partial integro-differential equation in reproducing kernel space. International Journal of Computer Mathematics, 2010, 87, 3196-3198.	1.8	4
24	Numerical Simulation of the Lorenz-Type Chaotic System Using Barycentric Lagrange Interpolation Collocation Method. Advances in Mathematical Physics, 2019, 2019, 1-9.	0.8	4
25	The space spectral interpolation collocation method for reaction-diffusion systems. Thermal Science, 2021, 25, 1269-1275.	1.1	4
26	A modified reproducing kernel method for solving Burgers' equation arising from diffusive waves in fluid dynamics. Applied Mathematics and Computation, 2017, 315, 500-506.	2.2	3
27	The barycentric interpolation collocation method for a class of nonlinear vibration systems. Journal of Low Frequency Noise Vibration and Active Control, 2019, 38, 1495-1504.	2.9	3
28	Solving a class of variable order nonlinear fractional integral differential equations by using reproducing kernel function. AIMS Mathematics, 2022, 7, 12935-12951.	1.6	3
29	Using Reproducing Kernel for Solving a Class of Fractional Order Integral Differential Equations. Advances in Mathematical Physics, 2020, 2020, 1-12.	0.8	2
30	Solving a Class of Singularly Perturbed Partial Differential Equation by Using the Perturbation Method and Reproducing Kernel Method. Abstract and Applied Analysis, 2014, 2014, 1-5.	0.7	1
31	Numerical solution of a class of space fractional nonlinear vibration equations with periodic boundary conditions by the Fourier spectral method. Journal of Low Frequency Noise Vibration and Active Control, 2021, 40, 1804-1817.	2.9	1
32	Numerical simulation for a class of predator–prey system with homogeneous Neumann boundary condition based on a sinc function interpolation method. Boundary Value Problems, 2020, 2020, .	0.7	1
33	Numerical simulation of the space fractional $ (3+1) $-dimensional Gray-Scott models with the Riesz fractional derivative. AIMS Mathematics, 2022, 7, 10234-10244.	1.6	1
34	Numerical Simulation Characteristics of Logging Response in Water Injection Well by Reproducing Kernel Method. Mathematical Problems in Engineering, 2015, 2015, 1-5.	1.1	0
35	Some Novel Complex Dynamic Behaviors of a Class of Four-Dimensional Chaotic or Hyperchaotic Systems Based on a Meshless Collocation Method. Complexity, 2019, 2019, 1-15.	1.6	0
36	Numerical Solution of a Class of Predator-Prey Systems with Complex Dynamics Characters Based on a Sinc Function Interpolation Collocation Method. Complexity, 2020, 2020, 1-34.	1.6	0

#	Article	IF	Citations
37	Numerical Solution of a Class of Time-Fractional Order Diffusion Equations in a New Reproducing Kernel Space. Journal of Function Spaces, 2020, 2020, 1-9.	0.9	0
38	Numerical simulation of a class of space fractional bistable systems based on the Fourier spectral method. Journal of Low Frequency Noise Vibration and Active Control, 0, , 146134842110637.	2.9	0