Kapil K Sharma

List of Publications by Year
in descending order

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		394421	434195
37	1,024	19	31
papers	citations	h-index	g-index

37	37	37	362
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A robust numerical algorithm on harmonic mesh for parabolic singularly perturbed convection-diffusion problems with time delay. Numerical Algorithms, 2022, 91, 615-634.	1.9	5
2	A higher order uniformly convergent method for singularly perturbed parabolic turning point problems. Numerical Methods for Partial Differential Equations, 2020, 36, 342-368.	3.6	13
3	Highâ€order discreteâ€time orthogonal spline collocation methods for singularly perturbed 1D parabolic reactionâ€“diffusion problems. Numerical Methods for Partial Differential Equations, 2020, 36, 495-523.	3.6	4
4	Numerical approximation for a class of singularly perturbed delay differential equations with boundary and interior layer(s). Numerical Algorithms, 2020, 85, 305-328.	1.9	14
5	$$varepsilon $$ Îµ -Uniform Numerical Technique for the Class of Time Dependent Singularly Perturbed Parabolic Problems With State Dependent Retarded Argument Arising from Generalised Steinâ€™s Model of Neuronal Variability. Differential Equations and Dynamical Systems, 2019, 27, 113-140.	1.0	6
6	Expanded mixed FEM with lowest order RT elements for nonlinear and nonlocal parabolic problems. Advances in Computational Mathematics, 2018, 44, 1537-1571.	1.6	7
7	Numerical Treatment for the Class of Time Dependent Singularly Perturbed Parabolic Problems with General Shift Arguments. Differential Equations and Dynamical Systems, 2017, 25, 327-346.	1.0	50
8	Parameter uniform numerical scheme for time dependent singularly perturbed convection-diffusion-reaction problems with general shift arguments. Numerical Algorithms, 2017, 75, 113-145.	1.9	45
9	Cost-effectiveness of classification ensembles. Pattern Recognition, 2016, 57, 84-96.	8.1	7
10	Probability density function of leaky integrate-and-fire model with LÃ©vy noise and its numerical approximation. Numerical Analysis and Applications, 2016, 9, 66-73.	0.4	2
11	Finite element method for a nonlinear parabolic integro-differential equation in higher spatial dimensions. Applied Mathematical Modelling, 2015, 39, 7338-7350.	4.2	9
12	Numerical method for solving fractional coupled Burgers equations. Applied Mathematics and Computation, 2015, 260, 314-320.	2.2	56
13	Unconditionally stable numerical method for a nonlinear partial integro-differential equation. Computers and Mathematics With Applications, 2014, 67, 62-76.	2.7	9
14	A review on singularly perturbed differential equations with turning points and interior layers. Applied Mathematics and Computation, 2013, 219, 10575-10609.	2.2	42
15	Optimal equi-scaled families of Jarratt's method. International Journal of Computer Mathematics, 2013, 90, 408-422.	1.8	15
16	A numerical scheme based on weighted average differential quadrature method for the numerical solution of Burgersâ€™ equation. Applied Mathematics and Computation, 2013, 219, 6680-6691.	2.2	83
17	A numerical scheme based on differential quadrature method to solve time dependent Burgers' equation. Engineering Computations, 2012, 30, 117-131.	1.4	31
18	Fitted mesh numerical method for singularly perturbed delay differential turning point problems exhibiting boundary layers. International Journal of Computer Mathematics, 2012, 89, 944-961.	1.8	13

#	Article	IF	Citations
19	Numerical study of singularly perturbed differentialâ€“difference equation arising in the modeling of neuronal variability. Computers and Mathematics With Applications, 2012, 63, 118-132.	2.7	24
20	Parameter uniform numerical method for singularly perturbed differentialâ€“difference equations with interior layers. International Journal of Computer Mathematics, 2011, 88, 3416-3435.	1.8	14
21	Numerical analysis of singularly perturbed delay differential turning point problem. Applied Mathematics and Computation, 2011, 218, 3483-3498.	2.2	29
22	Simply constructed family of a Ostrowskiâ€™s method with optimal order of convergence. Computers and Mathematics With Applications, 2011, 62, 4021-4027.	2.7	21
23	A parameter uniform difference scheme for parabolic partial differential equation with a retarded argument. Applied Mathematical Modelling, 2010, 34, 4232-4242.	4.2	29
24	A numerical method based on finite difference for boundary value problems for singularly perturbed delay differential equations. Applied Mathematics and Computation, 2008, 197, 692-707.	2.2	78
25	Hyperbolic partial differential-difference equation in the mathematical modeling of neuronal firing and its numerical solution. Applied Mathematics and Computation, 2008, 201, 229-238.	2.2	15
26	Îµ-Uniformly convergent non-standard finite difference methods for singularly perturbed differential difference equations with small delay. Applied Mathematics and Computation, 2006, 175, 864-890.	2.2	26
27	A solution of the discrepancy occurs due to using the fitted mesh approach rather than to the fitted operator for solving singularly perturbed differential equations. Applied Mathematics and Computation, 2006, 181, 756-766.	2.2	13
28	Uniformly convergent non-standard finite difference methods for singularly perturbed differential-difference equations with delay and advance. International Journal for Numerical Methods in Engineering, 2006, 66, 272-296.	2.8	40
29	Numerical treatment of a mathematical model arising from a model of neuronal variability. Journal of Mathematical Analysis and Applications, 2005, 307, 606-627.	1.0	57
30	Numerical treatment for singularly perturbed nonlinear differential difference equations with negative shift. Nonlinear Analysis: Theory, Methods & Applications, 2005, 63, e1909-e1924.	1.1	25
31	A parameter-uniform implicit difference scheme for solving time-dependent Burgersâ€™ equations. Applied Mathematics and Computation, 2005, 170, 1365-1393.	2.2	46
32	Numerical analysis of singularly perturbed delay differential equations with layer behavior. Applied Mathematics and Computation, 2004, 157, 11-28.	2.2	79
33	Parameter uniform numerical method for a boundary-value problem for singularly perturbed nonlinear delay differential equation of neutral type. International Journal of Computer Mathematics, 2004, 81, 845-862.	1.8	9
34	Ïµ-Uniform fitted mesh method for singularly perturbed differential-difference equations: Mixed type of shifts with layer behavior. International Journal of Computer Mathematics, 2004, 81, 49-62.	1.8	28
35	An Ïµ-uniform fitted operator method for solving boundary-value problems for singularly perturbed delay differential equations: Layer behavior. International Journal of Computer Mathematics, 2003, 80, 1261-1276.	1.8	14
36	Numerical Analysis of Boundary-Value Problems for Singularly-Perturbed Differential-Difference Equations with Small Shifts of Mixed Type. Journal of Optimization Theory and Applications, 2002, 115, 145-163.	1.5	64

#	Article	IF	Citations
37	A Uniformly Convergent Numerical Algorithm on Harmonic ($$H(ell)$$) Mesh for Parabolic Singularly Perturbed Convection-Diffusion Problems with Boundary Layer. Differential Equations and Dynamical Systems, 0, , 1.	1.0	2