

Chengjian Zhang

List of Publications by Year in descending order

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75
papers

1,150
citations

331670

21
h-index

454955

30
g-index

75
all docs

75
docs citations

75
times ranked

386
citing authors

#	ARTICLE	IF	CITATIONS
1	General Linear Methods for Volterra Integro-differential Equations with Memory. <i>SIAM Journal of Scientific Computing</i> , 2006, 27, 2010-2031.	2.8	59
2	Stability analysis of Volterra delay-integro-differential equations and their backward differentiation time discretization. <i>Journal of Computational and Applied Mathematics</i> , 2004, 164-165, 797-814.	2.0	51
3	A note on compact finite difference method for reaction-diffusion equations with delay. <i>Applied Mathematical Modelling</i> , 2015, 39, 1749-1754.	4.2	46
4	An analysis of stability of milstein method for stochastic differential equations with delay. <i>Computers and Mathematics With Applications</i> , 2006, 51, 1445-1452.	2.7	45
5	A new linearized compact multisplitting scheme for the nonlinear convection-reaction-diffusion equations with delay. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013, 18, 3278-3288.	3.3	45
6	Convergence and stability of extended block boundary value methods for Volterra delay integro-differential equations. <i>Applied Numerical Mathematics</i> , 2012, 62, 141-154.	2.1	44
7	A compact difference scheme combined with extrapolation techniques for solving a class of neutral delay parabolic differential equations. <i>Applied Mathematics Letters</i> , 2013, 26, 306-312.	2.7	43
8	Preserving stability implicit Euler method for nonlinear Volterra and neutral functional differential equations in Banach space. <i>Numerische Mathematik</i> , 2010, 115, 451-474.	1.9	42
9	LDG method for reaction-diffusion dynamical systems with time delay. <i>Applied Mathematics and Computation</i> , 2011, 217, 9173-9181.	2.2	40
10	The compact and Crank-Nicolson ADI schemes for two-dimensional semilinear multidelay parabolic equations. <i>Journal of Computational and Applied Mathematics</i> , 2016, 306, 217-230.	2.0	40
11	Boundary value methods for Volterra integral and integro-differential equations. <i>Applied Mathematics and Computation</i> , 2011, 218, 2619-2630.	2.2	35
12	Long time behavior of non-Fickian delay reaction-diffusion equations. <i>Nonlinear Analysis: Real World Applications</i> , 2012, 13, 1401-1415.	1.7	33
13	The asymptotic stability of theoretical and numerical solutions for systems of neutral multidelay-differential equations. <i>Science in China Series A: Mathematics</i> , 1998, 41, 1151-1157.	0.5	31
14	Block boundary value methods for delay differential equations. <i>Applied Numerical Mathematics</i> , 2010, 60, 915-923.	2.1	31
15	Implicit-explicit predictor-corrector schemes for nonlinear parabolic differential equations. <i>Applied Mathematical Modelling</i> , 2011, 35, 2711-2722.	4.2	30
16	Stability criteria for exact and discrete solutions of neutral multidelay-integro-differential equations. <i>Advances in Computational Mathematics</i> , 2008, 28, 383-399.	1.6	27
17	The discrete dynamics of nonlinear infinite-delay-differential equations. <i>Applied Mathematics Letters</i> , 2002, 15, 521-526.	2.7	26
18	The extended one-leg methods for nonlinear neutral delay-integro-differential equations. <i>Applied Numerical Mathematics</i> , 2009, 59, 1409-1418.	2.1	26

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19	A linearly implicit conservative scheme for the fractional nonlinear Schrödinger equation with wave operator. <i>International Journal of Computer Mathematics</i> , 2016, 93, 1103-1118.	1.8	26
20	Block boundary value methods applied to functional differential equations with piecewise continuous arguments. <i>Applied Numerical Mathematics</i> , 2017, 115, 214-224.	2.1	26
21	Asymptotic stability of block boundary value methods for delay differential-algebraic equations. <i>Mathematics and Computers in Simulation</i> , 2010, 81, 100-108.	4.4	24
22	Implicit-explicit time integration of nonlinear fractional differential equations. <i>Applied Numerical Mathematics</i> , 2020, 156, 555-583.	2.1	22
23	A new fourth-order numerical algorithm for a class of three-dimensional nonlinear evolution equations. <i>Numerical Methods for Partial Differential Equations</i> , 2013, 29, 102-130.	3.6	21
24	Application of a fourth-order compact ADI method to solve a two-dimensional linear hyperbolic equation. <i>International Journal of Computer Mathematics</i> , 2013, 90, 273-291.	1.8	21
25	A spectral Galerkin method for nonlinear delay convection-diffusion-reaction equations. <i>Computers and Mathematics With Applications</i> , 2015, 69, 709-724.	2.7	17
26	Strang-type preconditioners applied to ordinary and neutral differential-algebraic equations. <i>Numerical Linear Algebra With Applications</i> , 2011, 18, 843-855.	1.6	16
27	Multistep finite difference schemes for the variable coefficient delay parabolic equations. <i>Journal of Difference Equations and Applications</i> , 2016, 22, 745-765.	1.1	15
28	Convergence and stability of block boundary value methods applied to nonlinear fractional differential equations with Caputo derivatives. <i>Applied Numerical Mathematics</i> , 2019, 135, 367-380.	2.1	14
29	Linearized compact difference methods combined with Richardson extrapolation for nonlinear delay Sobolev equations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 91, 105461.	3.3	14
30	The adapted block boundary value methods for singular initial value problems. <i>Calcolo</i> , 2018, 55, 1.	1.1	13
31	Asymptotical boundedness and moment exponential stability for stochastic neutral differential equations with time-variable delay and markovian switching. <i>Applied Mathematics Letters</i> , 2017, 70, 46-51.	2.7	12
32	Solving nonlinear functional-differential and functional equations with constant delay via block boundary value methods. <i>Mathematics and Computers in Simulation</i> , 2019, 166, 21-32.	4.4	12
33	Analysis of a fourth-order compact ADI method for a linear hyperbolic equation with three spatial variables. <i>Numerical Algorithms</i> , 2013, 63, 1-26.	1.9	11
34	Extended block boundary value methods for neutral equations with piecewise constant argument. <i>Applied Numerical Mathematics</i> , 2020, 150, 182-193.	2.1	11
35	Compact scheme for fractional diffusion-wave equation with spatial variable coefficient and delays. <i>Applicable Analysis</i> , 2022, 101, 1911-1932.	1.3	11
36	A class of compact boundary value methods applied to semi-linear reaction-diffusion equations. <i>Applied Mathematics and Computation</i> , 2018, 325, 69-81.	2.2	10

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37	Preconditioned quasi-compact boundary value methods for space-fractional diffusion equations. <i>Numerical Algorithms</i> , 2020, 84, 633-649.	1.9	10
38	A multi-domain Legendre spectral collocation method for nonlinear neutral equations with piecewise continuous argument. <i>International Journal of Computer Mathematics</i> , 2018, 95, 2419-2432.	1.8	9
39	Generalized Störmer-Cowell Methods for Nonlinear BVPs of Second-Order Delay-Integro-Differential Equations. <i>Journal of Scientific Computing</i> , 2018, 74, 1221-1240.	2.3	9
40	Compact alternating direction implicit method to solve two-dimensional nonlinear delay hyperbolic differential equations. <i>International Journal of Computer Mathematics</i> , 2014, 91, 964-982.	1.8	8
41	An implicit difference scheme with the KPS preconditioner for two-dimensional time-space fractional convection-diffusion equations. <i>Computers and Mathematics With Applications</i> , 2020, 80, 31-42.	2.7	8
42	A fully discrete $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e759" altimg="si228.svg"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -method for solving semi-linear reaction-diffusion equations with time-variable delay. <i>Mathematics and Computers in Simulation</i> , 2021, 179, 48-56.	4.4	8
43	Asymptotic stability of exact and discrete solutions for neutral multidelay-integro-differential equations. <i>Applied Mathematical Modelling</i> , 2011, 35, 4490-4506.	4.2	7
44	Multi-scale approach for simulating time-delay biochemical reaction systems. <i>IET Systems Biology</i> , 2015, 9, 31-38.	1.5	7
45	Numerical approximation to a class of nonlinear hybrid system with distributed delay via block boundary value methods. <i>Journal of Computational and Applied Mathematics</i> , 2020, 378, 112942.	2.0	7
46	A derivative-free explicit method with order 1.0 for solving stochastic delay differential equations. <i>Journal of Computational and Applied Mathematics</i> , 2013, 253, 51-65.	2.0	6
47	The discrete maximum principle and energy stability of a new second-order difference scheme for Allen-Cahn equations. <i>Applied Numerical Mathematics</i> , 2021, 166, 227-237.	2.1	6
48	The stability relation between ordinary and delay-integro-differential equations. <i>Mathematical and Computer Modelling</i> , 2009, 49, 13-19.	2.0	5
49	The extended Pouzet-Runge-Kutta methods for nonlinear neutral delay-integro-differential equations. <i>Computing (Vienna/New York)</i> , 2010, 90, 57-71.	4.8	5
50	Implicit-explicit one-leg methods for nonlinear stiff neutral equations. <i>Applied Mathematics and Computation</i> , 2018, 335, 196-210.	2.2	5
51	Backward Euler-Maruyama method applied to nonlinear hybrid stochastic differential equations with time-variable delay. <i>Science China Mathematics</i> , 2019, 62, 597-616.	1.7	5
52	Compensated split-step balanced methods for nonlinear stiff SDEs with jump-diffusion and piecewise continuous arguments. <i>Science China Mathematics</i> , 2020, 63, 2573-2594.	1.7	5
53	Galerkin finite element methods solving 2D initial-boundary value problems of neutral delay-reaction-diffusion equations. <i>Computers and Mathematics With Applications</i> , 2021, 92, 159-171.	2.7	5
54	One-parameter orthogonal spline collocation methods for nonlinear two-dimensional Sobolev equations with time-variable delay. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022, 108, 106233.	3.3	5

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55	NGP($\hat{\pm}$)-stability of general linear methods for NDDEs. Computers and Mathematics With Applications, 2004, 47, 1105-1113.	2.7	4
56	Almost sure and moment exponential stability of predictor-corrector methods for stochastic differential equations. Journal of Systems Science and Complexity, 2012, 25, 736-743.	2.8	4
57	Mean-Square Stability of Milstein Methods for Stochastic Pantograph Equations. Mathematical Problems in Engineering, 2013, 2013, 1-7.	1.1	4
58	Construction of high-order Runge-Kutta methods which preserve delay-dependent stability of DDEs. Applied Mathematics and Computation, 2016, 280, 168-179.	2.2	4
59	A class of stochastic one-parameter methods for nonlinear SFDEs with piecewise continuous arguments. Applied Numerical Mathematics, 2019, 135, 1-14.	2.1	4
60	A Class of New Pouzet-Runge-Kutta-Type Methods for Nonlinear Functional Integro-Differential Equations. Abstract and Applied Analysis, 2012, 2012, 1-21.	0.7	3
61	Compact block boundary value methods for semi-linear delay-reaction-diffusion equations with algebraic constraints. Numerical Methods for Partial Differential Equations, 2020, 36, 1304-1317.	3.6	3
62	Convergence and stability of extended BBVMs for nonlinear delay-differential-algebraic equations with piecewise continuous arguments. Numerical Algorithms, 2021, 87, 921-937.	1.9	3
63	Dissipativity of variable-stepsize Runge-Kutta methods for nonlinear functional differential equations with application to Nicholson's blowflies models. Communications in Nonlinear Science and Numerical Simulation, 2021, 97, 105723.	3.3	2
64	Solving semi-linear stiff neutral equations by implicit-explicit Runge-Kutta methods. International Journal of Computer Mathematics, 2020, 97, 2561-2581.	1.8	2
65	One-parameter Galerkin Finite Element Methods for Neutral Reaction-diffusion Equations with Piecewise Continuous Arguments. Journal of Scientific Computing, 2022, 90, 1.	2.3	2
66	On the Long Time Simulation of Reaction-Diffusion Equations with Delay. Scientific World Journal, The, 2014, 2014, 1-5.	2.1	1
67	An extension of numerical stability criteria for linear neutral multidelay-integro-differential equations. Applied Mathematics and Computation, 2015, 265, 347-351.	2.2	1
68	Compact Discrete Gradient Schemes for Nonlinear Schrödinger Equations. International Journal of Nonlinear Sciences and Numerical Simulation, 2017, 18, 1-7.	1.0	1
69	A preconditioned implicit difference scheme for semilinear two-dimensional time-space fractional Fokker-Planck equations. Numerical Linear Algebra With Applications, 2021, 28, e2357.	1.6	1
70	Asymptotical-stability-preserving finite element methods in time for 2D neutral delay-reaction-diffusion equations. Applied Mathematics Letters, 2022, 131, 108082.	2.7	1
71	Generalized Jacobi-Gauss-Lobatto interpolation. Frontiers of Mathematics in China, 2013, 8, 933-960.	0.7	0
72	Application of gPCRK Methods to Nonlinear Random Differential Equations with Piecewise Constant Argument. East Asian Journal on Applied Mathematics, 2017, 7, 306-324.	0.9	0

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73	An exponential stability criterion for nonlinear second-order functional differential equations with time-variable delays. <i>Applied Mathematics and Computation</i> , 2018, 328, 119-124.	2.2	0
74	A multigrid method with reduced phase error for 2D damped Helmholtz equations. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 12010-12020.	2.3	0
75	Numerical approximation to semi-linear stiff neutral equations via implicitâ€œexplicit general linear methods. <i>Mathematics and Computers in Simulation</i> , 2022, 196, 68-87.	4.4	0