

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	Compact scheme for fractional diffusion-wave equation with spatial variable coefficient and delays. <i>Applicable Analysis</i> , 2022, 101, 1911-1932.	1.3	11
2	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
3	Numerical approximation to semi-linear stiff neutral equations via implicit-explicit general linear methods. <i>Mathematics and Computers in Simulation</i> , 2022, 196, 68-87.	4.4	0
4	One-parameter Galerkin Finite Element Methods for Neutral Reaction-diffusion Equations with Piecewise Continuous Arguments. <i>Journal of Scientific Computing</i> , 2022, 90, 1.	2.3	2
5	Asymptotical-stability-preserving finite element methods in time for 2D neutral delay-reaction-diffusion equations. <i>Applied Mathematics Letters</i> , 2022, 131, 108082.	2.7	1
6	A fully discrete $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e759" altimg="si228.svg"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -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
7	A preconditioned implicit difference scheme for semilinear two-dimensional time-space fractional Fokker-Planck equations. <i>Numerical Linear Algebra With Applications</i> , 2021, 28, e2357.	1.6	1
8	Convergence and stability of extended BBVMs for nonlinear delay-differential-algebraic equations with piecewise continuous arguments. <i>Numerical Algorithms</i> , 2021, 87, 921-937.	1.9	3
9	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
10	Dissipativity of variable-stepsize Runge-Kutta methods for nonlinear functional differential equations with application to Nicholson's blowflies models. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 97, 105723.	3.3	2
11	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
12	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
13	Preconditioned quasi-compact boundary value methods for space-fractional diffusion equations. <i>Numerical Algorithms</i> , 2020, 84, 633-649.	1.9	10
14	Extended block boundary value methods for neutral equations with piecewise constant argument. <i>Applied Numerical Mathematics</i> , 2020, 150, 182-193.	2.1	11
15	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
16	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
17	Implicit-explicit time integration of nonlinear fractional differential equations. <i>Applied Numerical Mathematics</i> , 2020, 156, 555-583.	2.1	22
18	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

#	ARTICLE	IF	CITATIONS
19	Compact block boundary value methods for semi-linear delay reaction-diffusion equations with algebraic constraints. <i>Numerical Methods for Partial Differential Equations</i> , 2020, 36, 1304-1317.	3.6	3
20	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
21	Solving semi-linear stiff neutral equations by implicit-explicit Runge-Kutta methods. <i>International Journal of Computer Mathematics</i> , 2020, 97, 2561-2581.	1.8	2
22	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
23	A class of stochastic one-parameter methods for nonlinear SFDEs with piecewise continuous arguments. <i>Applied Numerical Mathematics</i> , 2019, 135, 1-14.	2.1	4
24	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
25	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
26	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
27	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
28	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
29	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
30	Implicit-explicit one-leg methods for nonlinear stiff neutral equations. <i>Applied Mathematics and Computation</i> , 2018, 335, 196-210.	2.2	5
31	The adapted block boundary value methods for singular initial value problems. <i>Calcolo</i> , 2018, 55, 1.	1.1	13
32	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
33	Compact Discrete Gradient Schemes for Nonlinear Schrödinger Equations. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2017, 18, 1-7.	1.0	1
34	Application of gPCRK Methods to Nonlinear Random Differential Equations with Piecewise Constant Argument. <i>East Asian Journal on Applied Mathematics</i> , 2017, 7, 306-324.	0.9	0
35	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
36	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

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37	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
38	Construction of high-order Runge-Kutta methods which preserve delay-dependent stability of DDEs. <i>Applied Mathematics and Computation</i> , 2016, 280, 168-179.	2.2	4
39	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
40	An extension of numerical stability criteria for linear neutral multidelay-integro-differential equations. <i>Applied Mathematics and Computation</i> , 2015, 265, 347-351.	2.2	1
41	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
42	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
43	Multi-scale approach for simulating time-delay biochemical reaction systems. <i>IET Systems Biology</i> , 2015, 9, 31-38.	1.5	7
44	On the Long Time Simulation of Reaction-Diffusion Equations with Delay. <i>Scientific World Journal</i> , The, 2014, 2014, 1-5.	2.1	1
45	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
46	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
47	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
48	Generalized Jacobi-Gauss-Lobatto interpolation. <i>Frontiers of Mathematics in China</i> , 2013, 8, 933-960.	0.7	0
49	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
50	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
51	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
52	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
53	Mean-Square Stability of Milstein Methods for Stochastic Pantograph Equations. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-7.	1.1	4
54	A Class of New Pouzet-Runge-Kutta-Type Methods for Nonlinear Functional Integro-Differential Equations. <i>Abstract and Applied Analysis</i> , 2012, 2012, 1-21.	0.7	3

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55	Almost sure and moment exponential stability of predictor-corrector methods for stochastic differential equations. <i>Journal of Systems Science and Complexity</i> , 2012, 25, 736-743.	2.8	4
56	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
57	Long time behavior of non-Fickian delay reaction-diffusion equations. <i>Nonlinear Analysis: Real World Applications</i> , 2012, 13, 1401-1415.	1.7	33
58	Boundary value methods for Volterra integral and integro-differential equations. <i>Applied Mathematics and Computation</i> , 2011, 218, 2619-2630.	2.2	35
59	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
60	LDG method for reaction-diffusion dynamical systems with time delay. <i>Applied Mathematics and Computation</i> , 2011, 217, 9173-9181.	2.2	40
61	Implicit-explicit predictor-corrector schemes for nonlinear parabolic differential equations. <i>Applied Mathematical Modelling</i> , 2011, 35, 2711-2722.	4.2	30
62	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
63	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
64	Block boundary value methods for delay differential equations. <i>Applied Numerical Mathematics</i> , 2010, 60, 915-923.	2.1	31
65	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
66	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
67	The extended one-leg methods for nonlinear neutral delay-integro-differential equations. <i>Applied Numerical Mathematics</i> , 2009, 59, 1409-1418.	2.1	26
68	The stability relation between ordinary and delay-integro-differential equations. <i>Mathematical and Computer Modelling</i> , 2009, 49, 13-19.	2.0	5
69	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
70	General Linear Methods for Volterra Integro-differential Equations with Memory. <i>SIAM Journal of Scientific Computing</i> , 2006, 27, 2010-2031.	2.8	59
71	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
72	NGP($\hat{\pm}$)-stability of general linear methods for NDDEs. <i>Computers and Mathematics With Applications</i> , 2004, 47, 1105-1113.	2.7	4

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73	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
74	The discrete dynamics of nonlinear infinite-delay-differential equations. <i>Applied Mathematics Letters</i> , 2002, 15, 521-526.	2.7	26
75	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