Yuan-Ming Wang

List of Publications by Year
in descending order

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63	597	623734	752698
papers	citations	14 h-index	20 g-index

63	63	63	342
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Crank-Nicolson-type compact difference method with the uniform time step for a class of weakly singular parabolic integro-differential equations. Applied Numerical Mathematics, 2022, 172, 566-590.	2.1	5
2	An averaged <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1127" altimg="si8.svg"><mml:mrow><mml:mi>L</mml:mi><mml:mn>1</mml:mn></mml:mrow></mml:math>-type compact difference method for time-fractional mobile/immobile diffusion equations with weakly singular solutions. Applied Mathematics Letters, 2022, 131, 108076.	2.7	5
3	A second-order L2-1 Crank-Nicolson difference method for two-dimensional time-fractional wave equations with variable coefficients. Computers and Mathematics With Applications, 2022, 118, 183-207.	2.7	4
4	A high-order compact difference method on fitted meshes for Neumann problems of time-fractional reactionâ€“diffusion equations with variable coefficients. Mathematics and Computers in Simulation, 2021, 181, 598-623.	4.4	2
5	A high-order compact finite difference method on nonuniform time meshes for variable coefficient reactionâ€“subdiffusion problems with a weak initial singularity. BIT Numerical Mathematics, 2021, 61, 1023-1059.	2.0	4
6	A high-order compact difference method for fractional sub-diffusion equations with variable coefficients and nonhomogeneous Neumann boundary conditions. Computational and Applied Mathematics, 2020, 39, 1.	2.2	4
7	Analysis of a high-order compact finite difference method for Robin problems of time-fractional sub-diffusion equations with variable coefficients. Applied Numerical Mathematics, 2020, 156, 467-492.	2.1	5
8	A compact exponential difference method for multi-term time-fractional convection-reaction-diffusion problems with non-smooth solutions. Applied Mathematics and Computation, 2020, 381, 125316.	2.2	1
9	A Crank-Nicolson-type compact difference method and its extrapolation for time fractional Cattaneo convection-diffusion equations with smooth solutions. Numerical Algorithms, 2019, 81, 489-527.	1.9	5
10	A high-order L2-compact difference method for Caputo-type time-fractional sub-diffusion equations with variable coefficients. Applied Mathematics and Computation, 2019, 342, 71-93.	2.2	21
11	Efficient compact finite difference methods for a class of time-fractional convectionâ€“reactionâ€“diffusion equations with variable coefficients. International Journal of Computer Mathematics, 2019, 96, 264-297.	1.8	22
12	High-Order Compact Difference Methods for Caputo-Type Variable Coefficient Fractional Sub-diffusion Equations in Conservative Form. Journal of Scientific Computing, 2018, 76, 1007-1043.	2.3	7
13	A compact ADI method and its extrapolation for time fractional sub-diffusion equations with nonhomogeneous Neumann boundary conditions. Computers and Mathematics With Applications, 2018, 75, 721-739.	2.7	14
14	Error analysis of a compact finite difference method for fourth-order nonlinear elliptic boundary value problems. Applied Numerical Mathematics, 2017, 120, 53-67.	2.1	8
15	A high-order compact finite difference method and its extrapolation for fractional mobile/immobile convectionâ€“diffusion equations. Calcolo, 2017, 54, 733-768.	1.1	21
16	A fourth-order extrapolated compact difference method for time-fractional convection-reaction-diffusion equations with spatially variable coefficients. Applied Mathematics and Computation, 2017, 312, 1-22.	2.2	13
17	Numerical Methods for a Class of Differential Algebraic Equations. Mathematical Problems in Engineering, 2017, 2017, 1-10.	1.1	0
18	A compact LOD method and its extrapolation for two-dimensional modified anomalous fractional sub-diffusion equations. Computers and Mathematics With Applications, 2016, 71, 147-170.	2.7	10

#	Article	IF	Citations
19	A modified compact ADI method and its extrapolation for two-dimensional fractional subdiffusion equations. Journal of Applied Mathematics and Computing, 2016, 52, 439-476.	2.5	3
20	Numerical methods for fourth-order elliptic equations with nonlocal boundary conditions. Journal of Computational and Applied Mathematics, 2016, 292, 447-468.	2.0	8
21	Error analysis of a high-order compact ADI method for two-dimensional fractional convection-subdiffusion equations. Calcolo, 2016, 53, 301-330.	1.1	9
22	A compact finite difference method for a class of time fractional convection-diffusion-wave equations with variable coefficients. Numerical Algorithms, 2015, 70, 625-651.	1.9	29
23	Fourth-Order Compact Finite Difference Methods and Monotone Iterative Algorithms for Quasi-Linear Elliptic Boundary Value Problems. SIAM Journal on Numerical Analysis, 2015, 53, 1032-1057.	2.3	1
24	A compact locally one-dimensional method for fractional diffusion-wave equations. Journal of Applied Mathematics and Computing, 2015, 49, 41-67.	2.5	7
25	A compact finite difference method for solving a class of time fractional convection-subdiffusion equations. BIT Numerical Mathematics, 2015, 55, 1187-1217.	2.0	25
26	Fourth-order compact finite difference methods and monotone iterative algorithms for semilinear elliptic boundary value problems. Computers and Mathematics With Applications, 2014, 68, 1671-1688.	2.7	7
27	A higher-order compact LOD method and its extrapolations for nonhomogeneous parabolic differential equations. Applied Mathematics and Computation, 2014, 237, 512-530.	2.2	10
28	Maximum Norm Error Estimates of ADI Methods for a Two-Dimensional Fractional Subdiffusion Equation. Advances in Mathematical Physics, 2013, 2013, 1-10.	0.8	5
29	Numerov's Method for a Class of Nonlinear Multipoint Boundary Value Problems. Mathematical Problems in Engineering, 2012, 2012, 1-29.	1.1	1
30	A higher-order compact ADI method with monotone iterative procedure for systems of reactionâ€“diffusion equations. Computers and Mathematics With Applications, 2011, 62, 2434-2451.	2.7	9
31	A modified accelerated monotone iterative method for finite difference reactionâ€“diffusionâ€“convection equations. Journal of Computational and Applied Mathematics, 2011, 235, 3646-3660.	2.0	6
32	Error and extrapolation of a compact LOD method for parabolic differential equations. Journal of Computational and Applied Mathematics, 2011, 235, 1367-1382.	2.0	16
33	A fourth-order compact finite difference method for nonlinear higher-order multi-point boundary value problems. Computers and Mathematics With Applications, 2011, 61, 3226-3245.	2.7	6
34	A block monotone iterative method for numerical solutions of nonlinear elliptic boundary value problems. Numerical Methods for Partial Differential Equations, 2011, 27, 680-701.	3.6	1
35	Global asymptotic stability of Lotkaâ€“Volterra competition reactionâ€“diffusion systems with time delays. Mathematical and Computer Modelling, 2011, 53, 337-346.	2.0	8
36	Nonlinear fourth-order elliptic equations with nonlocal boundary conditions. Journal of Mathematical Analysis and Applications, 2010, 372, 351-365.	1.0	13

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37	xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd"	2.0	2
38	The iterative solutions of 2nth-order nonlinear multi-point boundary value problems. Applied Mathematics and Computation, 2010, 217, 2251-2259.	2.2	1
39	Numerical solutions of a nonlinear reaction-diffusion system. International Journal of Computer Mathematics, 2010, 87, 1975-2002.	1.8	1
40	Higher-order monotone iterative methods for finite difference systems of nonlinear reactionâ€“diffusionâ€“convection equations. Applied Numerical Mathematics, 2009, 59, 2677-2693.	2.1	11
41	Higher-order compact finite difference method for systems of reactionâ€“diffusion equations. Journal of Computational and Applied Mathematics, 2009, 233, 502-518.	2.0	17
42	Asymptotic behavior of solutions for a Lotkaâ€“Volterra mutualism reactionâ€“diffusion system with time delays. Computers and Mathematics With Applications, 2009, 58, 597-604.	2.7	14
43	Numerical solutions of a Michaelisâ€“Menten-type ratio-dependent predatorâ€“prey system with diffusion. Applied Numerical Mathematics, 2009, 59, 1075-1093.	2.1	8
44	Global asymptotic stability of 3-species Lotkaâ€“Volterra models with diffusion and time delays. Applied Mathematics and Computation, 2008, 195, 34-48.	2.2	3
45	Numerical solutions of a three-competition Lotkaâ€“Volterra system. Applied Mathematics and Computation, 2008, 204, 423-440.	2.2	9
46	Fourth-order compact finite difference method for fourth-order nonlinear elliptic boundary value problems. Journal of Computational and Applied Mathematics, 2008, 221, 76-97.	2.0	21
47	A fourth-order compact finite difference method for higher-order Lidstone boundary value problems. Computers and Mathematics With Applications, 2008, 56, 499-521.	2.7	6
48	Error and stability of monotone method for numerical solutions of fourth-order semilinear elliptic boundary value problems. Journal of Computational and Applied Mathematics, 2007, 200, 503-519.	2.0	1
49	Monotone iterative technique for numerical solutions of fourth-order nonlinear elliptic boundary value problems. Applied Numerical Mathematics, 2007, 57, 1081-1096.	2.1	13
50	The extrapolation of Numerov's scheme for nonlinear two-point boundary value problems. Applied Numerical Mathematics, 2007, 57, 253-269.	2.1	7
51	Asymptotic behavior of solutions for a class of predatorâ€“prey reactionâ€“diffusion systems with time delays. Journal of Mathematical Analysis and Applications, 2007, 328, 137-150.	1.0	20
52	Asymptotic behavior of solutions for a cooperation-diffusion model with a saturating interaction. Computers and Mathematics With Applications, 2006, 52, 339-350.	2.7	6
53	Time-Delayed finite difference reaction-diffusion systems with nonquasimonotone functions. Numerische Mathematik, 2006, 103, 485-513.	1.9	45
54	On fourth-order elliptic boundary value problems with nonmonotone nonlinear function. Journal of Mathematical Analysis and Applications, 2005, 307, 1-11.	1.0	15

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55	On accelerated monotone iterations for numerical solutions of semilinear elliptic boundary value problems. Applied Mathematics Letters, 2005, 18, 749-755.	2.7	14
56	On 2nth-order Lidstone boundary value problems. Journal of Mathematical Analysis and Applications, 2005, 312, 383-400.	1.0	21
57	Numerov's method for strongly nonlinear two-point boundary value problems. Computers and Mathematics With Applications, 2003, 45, 759-763.	2.7	6
58	Monotone Finite Difference Schemes for Nonlinear Systems with Mixed Quasi-Monotonicity. Journal of Mathematical Analysis and Applications, 2002, 267, 599-625.	1.0	3
59	Asymptotic behavior of the numerical solutions for a system of nonlinear integrodifferential reactionâ€“diffusion equations. Applied Numerical Mathematics, 2001, 39, 205-223.	2.1	3
60	Some recent developments of numerov's method. Computers and Mathematics With Applications, 2001, 42, 561-592.	2.7	24
61	Petrovâ€“Galerkin methods for nonlinear systems without monotonicity. Applied Numerical Mathematics, 2001, 36, 57-78.	2.1	3
62	Remarks on periodic boundary value problems of first order discrete systems. International Journal of Computer Mathematics, 2000, 73, 493-502.	1.8	3
63	Monotone methods for solving a boundary value problem of second order discrete system. Mathematical Problems in Engineering, 1999, 5, 291-315.	1.1	5