

# Yuan-Ming Wang

## List of Publications by Year in descending order

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63  
papers

597  
citations

623734

14  
h-index

752698

20  
g-index

63  
all docs

63  
docs citations

63  
times ranked

342  
citing authors

#	ARTICLE	IF	CITATIONS
1	Time-Delayed finite difference reaction-diffusion systems with nonquasimonotone functions. <i>Numerische Mathematik</i> , 2006, 103, 485-513.	1.9	45
2	A compact finite difference method for a class of time fractional convection-diffusion-wave equations with variable coefficients. <i>Numerical Algorithms</i> , 2015, 70, 625-651.	1.9	29
3	A compact finite difference method for solving a class of time fractional convection-subdiffusion equations. <i>BIT Numerical Mathematics</i> , 2015, 55, 1187-1217.	2.0	25
4	Some recent developments of numerov's method. <i>Computers and Mathematics With Applications</i> , 2001, 42, 561-592.	2.7	24
5	Efficient compact finite difference methods for a class of time-fractional convectionâ€“reactionâ€“diffusion equations with variable coefficients. <i>International Journal of Computer Mathematics</i> , 2019, 96, 264-297.	1.8	22
6	On 2nth-order Lidstone boundary value problems. <i>Journal of Mathematical Analysis and Applications</i> , 2005, 312, 383-400.	1.0	21
7	Fourth-order compact finite difference method for fourth-order nonlinear elliptic boundary value problems. <i>Journal of Computational and Applied Mathematics</i> , 2008, 221, 76-97.	2.0	21
8	A high-order compact finite difference method and its extrapolation for fractional mobile/immobile convectionâ€“diffusion equations. <i>Calcolo</i> , 2017, 54, 733-768.	1.1	21
9	A high-order L2-compact difference method for Caputo-type time-fractional sub-diffusion equations with variable coefficients. <i>Applied Mathematics and Computation</i> , 2019, 342, 71-93.	2.2	21
10	Asymptotic behavior of solutions for a class of predatorâ€“prey reactionâ€“diffusion systems with time delays. <i>Journal of Mathematical Analysis and Applications</i> , 2007, 328, 137-150.	1.0	20
11	Higher-order compact finite difference method for systems of reactionâ€“diffusion equations. <i>Journal of Computational and Applied Mathematics</i> , 2009, 233, 502-518.	2.0	17
12	Error and extrapolation of a compact LOD method for parabolic differential equations. <i>Journal of Computational and Applied Mathematics</i> , 2011, 235, 1367-1382.	2.0	16
13	On fourth-order elliptic boundary value problems with nonmonotone nonlinear function. <i>Journal of Mathematical Analysis and Applications</i> , 2005, 307, 1-11.	1.0	15
14	On accelerated monotone iterations for numerical solutions of semilinear elliptic boundary value problems. <i>Applied Mathematics Letters</i> , 2005, 18, 749-755.	2.7	14
15	Asymptotic behavior of solutions for a Lotkaâ€“Volterra mutualism reactionâ€“diffusion system with time delays. <i>Computers and Mathematics With Applications</i> , 2009, 58, 597-604.	2.7	14
16	A compact ADI method and its extrapolation for time fractional sub-diffusion equations with nonhomogeneous Neumann boundary conditions. <i>Computers and Mathematics With Applications</i> , 2018, 75, 721-739.	2.7	14
17	Monotone iterative technique for numerical solutions of fourth-order nonlinear elliptic boundary value problems. <i>Applied Numerical Mathematics</i> , 2007, 57, 1081-1096.	2.1	13
18	Nonlinear fourth-order elliptic equations with nonlocal boundary conditions. <i>Journal of Mathematical Analysis and Applications</i> , 2010, 372, 351-365.	1.0	13

#	ARTICLE	IF	CITATIONS
19	A fourth-order extrapolated compact difference method for time-fractional convection-reaction-diffusion equations with spatially variable coefficients. <i>Applied Mathematics and Computation</i> , 2017, 312, 1-22.	2.2	13
20	Higher-order monotone iterative methods for finite difference systems of nonlinear reaction-diffusion-convection equations. <i>Applied Numerical Mathematics</i> , 2009, 59, 2677-2693.	2.1	11
21	A higher-order compact LOD method and its extrapolations for nonhomogeneous parabolic differential equations. <i>Applied Mathematics and Computation</i> , 2014, 237, 512-530.	2.2	10
22	A compact LOD method and its extrapolation for two-dimensional modified anomalous fractional sub-diffusion equations. <i>Computers and Mathematics With Applications</i> , 2016, 71, 147-170.	2.7	10
23	Numerical solutions of a three-competition Lotka-Volterra system. <i>Applied Mathematics and Computation</i> , 2008, 204, 423-440.	2.2	9
24	A higher-order compact ADI method with monotone iterative procedure for systems of reaction-diffusion equations. <i>Computers and Mathematics With Applications</i> , 2011, 62, 2434-2451.	2.7	9
25	Error analysis of a high-order compact ADI method for two-dimensional fractional convection-subdiffusion equations. <i>Calcolo</i> , 2016, 53, 301-330.	1.1	9
26	Numerical solutions of a Michaelis-Menten-type ratio-dependent predator-prey system with diffusion. <i>Applied Numerical Mathematics</i> , 2009, 59, 1075-1093.	2.1	8
27	Global asymptotic stability of Lotka-Volterra competition reaction-diffusion systems with time delays. <i>Mathematical and Computer Modelling</i> , 2011, 53, 337-346.	2.0	8
28	Numerical methods for fourth-order elliptic equations with nonlocal boundary conditions. <i>Journal of Computational and Applied Mathematics</i> , 2016, 292, 447-468.	2.0	8
29	Error analysis of a compact finite difference method for fourth-order nonlinear elliptic boundary value problems. <i>Applied Numerical Mathematics</i> , 2017, 120, 53-67.	2.1	8
30	The extrapolation of Numerov's scheme for nonlinear two-point boundary value problems. <i>Applied Numerical Mathematics</i> , 2007, 57, 253-269.	2.1	7
31	Fourth-order compact finite difference methods and monotone iterative algorithms for semilinear elliptic boundary value problems. <i>Computers and Mathematics With Applications</i> , 2014, 68, 1671-1688.	2.7	7
32	A compact locally one-dimensional method for fractional diffusion-wave equations. <i>Journal of Applied Mathematics and Computing</i> , 2015, 49, 41-67.	2.5	7
33	High-Order Compact Difference Methods for Caputo-Type Variable Coefficient Fractional Sub-diffusion Equations in Conservative Form. <i>Journal of Scientific Computing</i> , 2018, 76, 1007-1043.	2.3	7
34	Numerov's method for strongly nonlinear two-point boundary value problems. <i>Computers and Mathematics With Applications</i> , 2003, 45, 759-763.	2.7	6
35	Asymptotic behavior of solutions for a cooperation-diffusion model with a saturating interaction. <i>Computers and Mathematics With Applications</i> , 2006, 52, 339-350.	2.7	6
36	A fourth-order compact finite difference method for higher-order Lidstone boundary value problems. <i>Computers and Mathematics With Applications</i> , 2008, 56, 499-521.	2.7	6

#	ARTICLE	IF	CITATIONS
37	A modified accelerated monotone iterative method for finite difference reaction-diffusion-convection equations. Journal of Computational and Applied Mathematics, 2011, 235, 3646-3660.	2.0	6
38	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
39	Monotone methods for solving a boundary value problem of second order discrete system. Mathematical Problems in Engineering, 1999, 5, 291-315.	1.1	5
40	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
41	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
42	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
43	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
44	An averaged $L_1$ -type compact difference method for time-fractional mobile/immobile diffusion equations with weakly singular solutions. Applied Mathematics Letters, 2022, 131, 108076.	2.7	5
45	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
46	A high-order compact finite difference method on nonuniform time meshes for variable coefficient reaction-subdiffusion problems with a weak initial singularity. BIT Numerical Mathematics, 2021, 61, 1023-1059.	2.0	4
47	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
48	Remarks on periodic boundary value problems of first order discrete systems. International Journal of Computer Mathematics, 2000, 73, 493-502.	1.8	3
49	Asymptotic behavior of the numerical solutions for a system of nonlinear integrodifferential reaction-diffusion equations. Applied Numerical Mathematics, 2001, 39, 205-223.	2.1	3
50	Petrov-Galerkin methods for nonlinear systems without monotonicity. Applied Numerical Mathematics, 2001, 36, 57-78.	2.1	3
51	Monotone Finite Difference Schemes for Nonlinear Systems with Mixed Quasi-Monotonicity. Journal of Mathematical Analysis and Applications, 2002, 267, 599-625.	1.0	3
52	Global asymptotic stability of 3-species Lotka-Volterra models with diffusion and time delays. Applied Mathematics and Computation, 2008, 195, 34-48.	2.2	3
53	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
54	On $L_1$ -type compact difference method for time-fractional mobile/immobile diffusion equations with weakly singular solutions. Applied Mathematics Letters, 2022, 131, 108076.	2.0	2

#	ARTICLE	IF	CITATIONS
55	A high-order compact difference method on fitted meshes for Neumann problems of time-fractional reaction-diffusion equations with variable coefficients. <i>Mathematics and Computers in Simulation</i> , 2021, 181, 598-623.	4.4	2
56	Error and stability of monotone method for numerical solutions of fourth-order semilinear elliptic boundary value problems. <i>Journal of Computational and Applied Mathematics</i> , 2007, 200, 503-519.	2.0	1
57	The iterative solutions of 2nth-order nonlinear multi-point boundary value problems. <i>Applied Mathematics and Computation</i> , 2010, 217, 2251-2259.	2.2	1
58	Numerical solutions of a nonlinear reaction-diffusion system. <i>International Journal of Computer Mathematics</i> , 2010, 87, 1975-2002.	1.8	1
59	A block monotone iterative method for numerical solutions of nonlinear elliptic boundary value problems. <i>Numerical Methods for Partial Differential Equations</i> , 2011, 27, 680-701.	3.6	1
60	Numerov's Method for a Class of Nonlinear Multipoint Boundary Value Problems. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-29.	1.1	1
61	Fourth-Order Compact Finite Difference Methods and Monotone Iterative Algorithms for Quasi-Linear Elliptic Boundary Value Problems. <i>SIAM Journal on Numerical Analysis</i> , 2015, 53, 1032-1057.	2.3	1
62	A compact exponential difference method for multi-term time-fractional convection-reaction-diffusion problems with non-smooth solutions. <i>Applied Mathematics and Computation</i> , 2020, 381, 125316.	2.2	1
63	Numerical Methods for a Class of Differential Algebraic Equations. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-10.	1.1	0