

Zhiyue Zhang

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	A new extension of quantum Simpson's and quantum Newton's type inequalities for quantum differentiable convex functions. <i>Mathematical Methods in the Applied Sciences</i> , 2022, 45, 1845-1863.	2.3	5
2	Convective Heat Transfer Analysis for Aluminum Oxide (Al ₂ O ₃)- and Ferro (Fe ₃ O ₄)-Based Nano-Fluid over a Curved Stretching Sheet. <i>Nanomaterials</i> , 2022, 12, 1152.	4.1	8
3	A hybrid asymptotic and augmented compact finite volume method for nonlinear singular two point boundary value problems. <i>Applied Mathematics and Computation</i> , 2021, 392, 125745.	2.2	6
4	Energy-preserving local mesh-refined splitting FDTD schemes for two dimensional Maxwell's equations. <i>Journal of Computational Physics</i> , 2021, 425, 109896.	3.8	4
5	Some new Simpson's type inequalities for coordinated convex functions in quantum calculus. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 4515-4540.	2.3	61
6	On some inequalities for submultiplicative functions. <i>Journal of Analysis</i> , 2021, 29, 861-872.	0.6	0
7	On some new quantum midpoint-type inequalities for twice quantum differentiable convex functions. <i>Open Mathematics</i> , 2021, 19, 427-439.	1.0	33
8	New immersed finite volume element method for elliptic interface problems with non-homogeneous jump conditions. <i>Journal of Computational Physics</i> , 2021, 427, 110075.	3.8	8
9	Bilinear immersed finite volume element method for solving matrix coefficient elliptic interface problems with non-homogeneous jump conditions. <i>Computers and Mathematics With Applications</i> , 2021, 86, 1-15.	2.7	28
10	The High Order Augmented Finite Volume Methods Based on Series Expansion for Nonlinear Degenerate Parabolic Equations. <i>Journal of Scientific Computing</i> , 2021, 88, 1.	2.3	48
11	Highly efficient difference methods for stochastic space fractional wave equation driven by additive and multiplicative noise. <i>Applied Mathematics Letters</i> , 2021, 116, 106988.	2.7	1
12	Ostrowski and Simpson type inequalities for multiplicative integrals. <i>Proyecciones</i> , 2021, 40, 743-763.	0.3	10
13	Physical properties preserving numerical simulation of stochastic fractional nonlinear wave equation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 99, 105832.	3.3	5
14	Linear implicit finite difference methods with energy conservation property for space fractional Klein-Gordon-Zakharov system. <i>Applied Numerical Mathematics</i> , 2021, 167, 389-419.	2.1	3
15	Semi-decoupling hybrid asymptotic and augmented finite volume method for nonlinear singular interface problems. <i>Journal of Computational and Applied Mathematics</i> , 2021, 396, 113606.	2.0	3
16	A hybrid augmented compact finite volume method for the Thomas-Fermi equation. <i>Mathematics and Computers in Simulation</i> , 2021, 190, 760-773.	4.4	1
17	Fourier Finite Volume Element Method for Two Classes of Optimal Control Problems Governed by Elliptic PDEs on Complex Connected Domain. <i>Numerical Functional Analysis and Optimization</i> , 2020, 41, 379-412.	1.4	2
18	Immersed finite element method and its analysis for parabolic optimal control problems with interfaces. <i>Applied Numerical Mathematics</i> , 2020, 147, 174-195.	2.1	7

#	ARTICLE	IF	CITATIONS
19	Unfitted finite element for optimal control problem of the temperature in composite media with contact resistance. Numerical Algorithms, 2020, 84, 165-180.	1.9	2
20	Nonconforming immersed finite element method for solving elliptic optimal control problems with interfaces. Applicable Analysis, 2020, , 1-20.	1.3	1
21	Some New Newton's Type Integral Inequalities for Co-Ordinated Convex Functions in Quantum Calculus. Symmetry, 2020, 12, 1476.	2.2	55
22	A new efficient energy-preserving finite volume element scheme for the improved Boussinesq equation. Applied Mathematical Modelling, 2020, 87, 20-41.	4.2	4
23	Efficient linear energy dissipative difference schemes for the coupled nonlinear damped space fractional wave equations. Communications in Nonlinear Science and Numerical Simulation, 2020, 90, 105291.	3.3	2
24	Two novel energy dissipative difference schemes for the strongly coupled nonlinear space fractional wave equations with damping. Applied Numerical Mathematics, 2020, 157, 178-209.	2.1	6
25	The Puiseux Expansion and Numerical Integration to Nonlinear Weakly Singular Volterra Integral Equations of the Second Kind. Journal of Scientific Computing, 2020, 82, 1.	2.3	6
26	A MODIFIED IMMERSSED FINITE VOLUME ELEMENT METHOD FOR ELLIPTIC INTERFACE PROBLEMS. ANZIAM Journal, 2020, 62, 42-61.	0.2	2
27	An analysis of implicit conservative difference solver for fractional Klein-Gordon-Zakharov system. Applied Mathematics and Computation, 2019, 348, 153-166.	2.2	12
28	A new fourth-order energy dissipative difference method for high-dimensional nonlinear fractional generalized wave equations. Communications in Nonlinear Science and Numerical Simulation, 2019, 78, 104850.	3.3	7
29	A stabilized immersed finite volume element method for elliptic interface problems. Applied Numerical Mathematics, 2019, 143, 75-87.	2.1	10
30	A conservative splitting difference scheme for the fractional-in-space Boussinesq equation. Applied Numerical Mathematics, 2019, 143, 61-74.	2.1	6
31	An Effective Dissipation-Preserving Fourth-Order Difference Solver for Fractional-in-Space Nonlinear Wave Equations. Journal of Scientific Computing, 2019, 79, 1753-1776.	2.3	24
32	The high-order multistep ADI solver for two-dimensional nonlinear delayed reaction-diffusion equations with variable coefficients. Computers and Mathematics With Applications, 2018, 75, 3558-3570.	2.7	21
33	High-order energy-preserving schemes for the improved Boussinesq equation. Numerical Methods for Partial Differential Equations, 2018, 34, 1145-1165.	3.6	13
34	An algorithm for the inversion of Laplace transforms using Puiseux expansions. Numerical Algorithms, 2018, 78, 107-132.	1.9	9
35	Finite Volume Element Approximation for the Elliptic Equation with Distributed Control. International Journal of Differential Equations, 2018, 2018, 1-11.	0.8	2
36	New Conservative Finite Volume Element Schemes for the Modified Regularized Long Wave Equation. Advances in Applied Mathematics and Mechanics, 2017, 9, 250-271.	1.2	3

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37	The practical Gauss type rules for Hadamard finite-part integrals using Puiseux expansions. <i>Advances in Computational Mathematics</i> , 2017, 43, 319-350.	1.6	9
38	HIGH-ORDER UPWIND FINITE VOLUME ELEMENT METHOD FOR FIRST-ORDER HYPERBOLIC OPTIMAL CONTROL PROBLEMS. <i>ANZIAM Journal</i> , 2016, 57, 482-498.	0.2	0
39	New conservative finite volume element schemes for the modified Korteweg-de Vries equation. <i>Mathematical Methods in the Applied Sciences</i> , 2016, 39, 5149-5161.	2.3	4
40	New energy-preserving schemes using Hamiltonian Boundary Value and Fourier pseudospectral methods for the numerical solution of the good Boussinesq equation. <i>Computer Physics Communications</i> , 2016, 201, 33-42.	7.5	27
41	The modified composite Gauss type rules for singular integrals using Puiseux expansions. <i>Mathematics of Computation</i> , 2016, 86, 345-373.	2.1	17
42	Two-grid Methods for Finite Volume Element Approximations of Nonlinear Sobolev Equations. <i>Numerical Functional Analysis and Optimization</i> , 2016, 37, 391-414.	1.4	13
43	A Sparse Grid Stochastic Collocation Method for Elliptic Interface Problems with Random Input. <i>Journal of Scientific Computing</i> , 2016, 67, 262-280.	2.3	8
44	An immersed finite volume element method for 2D PDEs with discontinuous coefficients and non-homogeneous jump conditions. <i>Computers and Mathematics With Applications</i> , 2015, 70, 89-103.	2.7	17
45	A compact finite volume method and its extrapolation for elliptic equations with third boundary conditions. <i>Applied Mathematics and Computation</i> , 2015, 264, 258-271.	2.2	4
46	Immersed finite elements for optimal control problems of elliptic PDEs with interfaces. <i>Journal of Computational Physics</i> , 2015, 298, 305-319.	3.8	21
47	High-order upwind finite volume element schemes for modelling of neuronal firing. <i>International Journal of Computer Mathematics</i> , 2014, 91, 625-640.	1.8	3
48	Energy-preserving finite volume element method for the improved Boussinesq equation. <i>Journal of Computational Physics</i> , 2014, 270, 58-69.	3.8	51
49	Numerical methods for a fluid mixture model. <i>International Journal for Numerical Methods in Fluids</i> , 2013, 71, 1-12.	1.6	9
50	The fractional steps domain decomposition method for numerical solution of a class of viscous wave equations. <i>Computational Mathematics and Mathematical Physics</i> , 2013, 53, 1013-1025.	0.8	6
51	A Fourier finite volume element method for solving two-dimensional quasi-geostrophic equations on a sphere. <i>Applied Numerical Mathematics</i> , 2013, 71, 1-13.	2.1	16
52	Numerical simulation of the stochastic damped improved Boussinesq equation. <i>Journal of Mathematical Physics</i> , 2013, 54, 013503.	1.1	5
53	A Characteristic Finite Volume Element Method for the Air Pollution Model. <i>Numerical Functional Analysis and Optimization</i> , 2013, 34, 664-694.	1.4	1
54	New Second-Order Finite Difference Scheme for the Problem of Contaminant in Groundwater Flow. <i>Journal of Applied Mathematics</i> , 2012, 2012, 1-13.	0.9	5

#	ARTICLE	IF	CITATIONS
55	Quadratic finite volume element method for the improved Boussinesq equation. Journal of Mathematical Physics, 2012, 53, .	1.1	24
56	The multistep finite difference fractional steps method for a class of viscous wave equations. Mathematical Methods in the Applied Sciences, 2011, 34, n/a-n/a.	2.3	1
57	A characteristic centred finite difference method for a 2D air pollution model. International Journal of Computer Mathematics, 2011, 88, 2178-2198.	1.8	7
58	Quadratic finite volume element method for the air pollution model. International Journal of Computer Mathematics, 2010, 87, 2925-2944.	1.8	8
59	Error estimates of finite volume element method for the pollution in groundwater flow. Numerical Methods for Partial Differential Equations, 2009, 25, 259-274.	3.6	23
60	A new high-order algorithm for a class of nonlinear evolution equation. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 015202.	2.1	11
61	A fourth-order finite difference solver for nerve conduction equation in rectangular domains. Journal of Mathematical Physics, 2008, 49, .	1.1	3
62	A new alternating-direction finite element method for hyperbolic equation. Numerical Methods for Partial Differential Equations, 2007, 23, 1530-1559.	3.6	9
63	Dynamics of Jovian atmospheres with applications of nonlinear singular vector method. International Journal for Numerical Methods in Fluids, 2007, 55, 713-721.	1.6	2
64	Conditional Nonlinear Optimal Perturbations of a Two-Dimensional Quasigeostrophic Model. Journals of the Atmospheric Sciences, 2006, 63, 1587-1604.	1.7	80
65	The finite element numerical analysis for a class nonlinear evolution equations. Applied Mathematics and Computation, 2005, 166, 489-500.	2.2	14
66	An economical difference scheme for heat transport equation at the microscale. Numerical Methods for Partial Differential Equations, 2004, 20, 855-863.	3.6	16
67	The alternating group explicit parallel algorithms for convection dominated diffusion problem of variable coefficient. International Journal of Computer Mathematics, 2004, 81, 823-834.	1.8	4
68	Fractional Hermite interpolation for non-smooth functions. Electronic Transactions on Numerical Analysis, 0, 52, 113-131.	0.0	2
69	High-order upwind finite volume element method for first-order hyperbolic optimal control problems. ANZIAM Journal, 0, 57, 482.	0.0	1