

Yang Liu

List of Publications by Year in descending order

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77
papers

1,485
citations

394421

19
h-index

345221

36
g-index

77
all docs

77
docs citations

77
times ranked

384
citing authors

#	ARTICLE	IF	CITATIONS
1	Finite difference/finite element method for a nonlinear time-fractional fourth-order reaction-diffusion problem. Computers and Mathematics With Applications, 2015, 70, 573-591.	2.7	129
2	A mixed finite element method for a time-fractional fourth-order partial differential equation. Applied Mathematics and Computation, 2014, 243, 703-717.	2.2	119
3	A two-grid mixed finite element method for a nonlinear fourth-order reaction-diffusion problem with time-fractional derivative. Computers and Mathematics With Applications, 2015, 70, 2474-2492.	2.7	116
4	A two-grid finite element approximation for a nonlinear time-fractional Cable equation. Nonlinear Dynamics, 2016, 85, 2535-2548.	5.2	94
5	Some second-order schemes combined with finite element method for nonlinear fractional cable equation. Numerical Algorithms, 2019, 80, 533-555.	1.9	66
6	Fast algorithm based on TT-M FE system for space fractional Allen-Cahn equations with smooth and non-smooth solutions. Journal of Computational Physics, 2019, 379, 351-372.	3.8	58
7	Local discontinuous Galerkin method for a nonlinear time-fractional fourth-order partial differential equation. Journal of Computational Physics, 2017, 344, 108-126.	3.8	56
8	High-order local discontinuous Galerkin method combined with WSGD-approximation for a fractional subdiffusion equation. Computers and Mathematics With Applications, 2017, 73, 1298-1314.	2.7	51
9	Time two-mesh algorithm combined with finite element method for time fractional water wave model. International Journal of Heat and Mass Transfer, 2018, 120, 1132-1145.	4.8	46
10	An H^1 -Galerkin mixed finite element method for time fractional reaction-diffusion equation. Journal of Applied Mathematics and Computing, 2015, 47, 103-117.	2.5	45
11	H^1 -Galerkin mixed finite element methods for pseudo-hyperbolic equations. Applied Mathematics and Computation, 2009, 212, 446-457.	2.2	38
12	Time second-order finite difference/finite element algorithm for nonlinear time-fractional diffusion problem with fourth-order derivative term. Computers and Mathematics With Applications, 2018, 75, 3521-3536.	2.7	38
13	Finite element method combined with second-order time discrete scheme for nonlinear fractional Cable equation. European Physical Journal Plus, 2016, 131, 1.	2.6	37
14	A class of shifted high-order numerical methods for the fractional mobile/immobile transport equations. Applied Mathematics and Computation, 2020, 368, 124799.	2.2	33
15	Second-order approximation scheme combined with MFE method for nonlinear time fractional convection-diffusion equation. Computers and Mathematics With Applications, 2017, 73, 1182-1196.		
16	A new fully discrete finite difference/element approximation for fractional cable equation. Journal of Applied Mathematics and Computing, 2016, 52, 345-361.	2.5	27
17	Finite Element Methods Based on Two Families of Second-Order Numerical Formulas for the Fractional Cable Model with Smooth Solutions. Journal of Scientific Computing, 2020, 84, 1.	2.3	25
18	Fast second-order time two-mesh mixed finite element method for a nonlinear distributed-order sub-diffusion model. Numerical Algorithms, 2021, 88, 523-553.	1.9	23

#	ARTICLE	IF	CITATIONS
19	A class of efficient time-stepping methods for multi-term time-fractional reaction-diffusion-wave equations. <i>Applied Numerical Mathematics</i> , 2021, 165, 56-82.	2.1	21
20	TT-M finite element algorithm for a two-dimensional space fractional Grayâ€“Scott model. <i>Computers and Mathematics With Applications</i> , 2020, 80, 1793-1809.	2.7	19
21	Highâ€“order local discontinuous Galerkin method for a fractal mobile/immobile transport equation with the Caputoâ€“Fabrizio fractional derivative. <i>Numerical Methods for Partial Differential Equations</i> , 2019, 35, 1588-1612.	3.6	18
22	Necessity of introducing non-integer shifted parameters by constructing high accuracy finite difference algorithms for a two-sided space-fractional advectionâ€“diffusion model. <i>Applied Mathematics Letters</i> , 2020, 105, 106347.	2.7	18
23	A structure preserving difference scheme with fast algorithms for high dimensional nonlinear space-fractional SchrÃ¶dinger equations. <i>Journal of Computational Physics</i> , 2021, 425, 109869.	3.8	18
24	Analysis of mixed finite element methods for fourth-order wave equations. <i>Computers and Mathematics With Applications</i> , 2013, 65, 1-16.	2.7	17
25	A novel finite element method for the distributed-order time fractional Cable equation in two dimensions. <i>Computers and Mathematics With Applications</i> , 2020, 80, 923-939.	2.7	17
26	The Unified Theory of Shifted Convolution Quadrature for Fractional Calculus. <i>Journal of Scientific Computing</i> , 2021, 89, 1.	2.3	17
27	Mixed element algorithm based on a second-order time approximation scheme for a two-dimensional nonlinear time fractional coupled sub-diffusion model. <i>Engineering With Computers</i> , 2022, 38, 51-68.	6.1	17
28	Splitting positive definite mixed element methods for pseudoâ€“hyperbolic equations. <i>Numerical Methods for Partial Differential Equations</i> , 2012, 28, 670-688.	3.6	15
29	Error estimates of H ¹ -Galerkin mixed finite element method for SchrÃ¶dinger equation. <i>Applied Mathematics</i> , 2009, 24, 83-89.	1.0	13
30	A Crankâ€“Nicolson Finite Volume Element Method for Time Fractional Sobolev Equations on Triangular Grids. <i>Mathematics</i> , 2020, 8, 1591.	2.2	13
31	Fast algorithm based on the novel approximation formula for the Caputo-Fabrizio fractional derivative. <i>AIMS Mathematics</i> , 2020, 5, 1729-1744.	1.6	12
32	Mixed time discontinuous space-time finite element method for convection diffusion equations. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2008, 29, 1579-1586.	3.6	11
33	Explicit Multistep Mixed Finite Element Method for RLW Equation. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-12.	0.7	11
34	Crankâ€“Nicolson WSGI difference scheme with finite element method for multi-dimensional time-fractional wave problem. <i>Computational and Applied Mathematics</i> , 2018, 37, 5126-5145.	1.3	11
35	A Mixed Finite Volume Element Method for Time-Fractional Reaction-Diffusion Equations on Triangular Grids. <i>Mathematics</i> , 2019, 7, 600.	2.2	11
36	Crankâ€“Nicolson Finite Element Scheme and Modified Reduced-Order Scheme for Fractional Sobolev Equation. <i>Numerical Functional Analysis and Optimization</i> , 2018, 39, 1635-1655.	1.4	10

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37	Finite volume element method with the WSGD formula for nonlinear fractional mobile/immobile transport equations. <i>Advances in Difference Equations</i> , 2020, 2020, .	3.5	10
38	A two-grid mixed finite volume element method for nonlinear time fractional reaction-diffusion equations. <i>AIMS Mathematics</i> , 2022, 7, 1941-1970.	1.6	10
39	A New Mixed Element Method for a Class of Time-Fractional Partial Differential Equations. <i>Scientific World Journal</i> , The, 2014, 2014, 1-8.	2.1	9
40	Efficient shifted fractional trapezoidal rule for subdiffusion problems with nonsmooth solutions on uniform meshes. <i>BIT Numerical Mathematics</i> , 2022, 62, 631-666.	2.0	9
41	Numerical Analysis of an H^1 Mixed Finite Element Method for Time Fractional Telegraph Equation. <i>Scientific World Journal</i> , The, 2014, 2014, 1-14.	2.1	7
42	Fast calculation based on a spatial two-grid finite element algorithm for a nonlinear space-time fractional diffusion model. <i>Numerical Methods for Partial Differential Equations</i> , 2020, 36, 1904-1921.	3.6	7
43	Numerical simulations based on shifted second-order difference/finite element algorithms for the time fractional Maxwell's system. <i>Engineering With Computers</i> , 2022, 38, 191-205.	6.1	7
44	Some Second-Order \tilde{I}_f Schemes Combined with an H^1 -Galerkin MFE Method for a Nonlinear Distributed-Order Sub-Diffusion Equation. <i>Mathematics</i> , 2020, 8, 187.	2.2	7
45	Approximation methods for the distributed order calculus using the convolution quadrature. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2021, 26, 1447-1468.	0.9	7
46	Mixed finite element algorithm for a nonlinear time fractional wave model. <i>Mathematics and Computers in Simulation</i> , 2021, 188, 60-76.	4.4	7
47	Splitting positive definite mixed element method for viscoelasticity wave equation. <i>Frontiers of Mathematics in China</i> , 2012, 7, 725-742.	0.7	6
48	A new mixed scheme based on variation of constants for Sobolev equation with nonlinear convection term. <i>Applied Mathematics</i> , 2013, 28, 158-172.	1.0	6
49	A new expanded mixed method for parabolic integro-differential equations. <i>Applied Mathematics and Computation</i> , 2015, 259, 600-613.	2.2	6
50	Analysis of a continuous Galerkin method with mesh modification for two-dimensional telegraph equation. <i>Computers and Mathematics With Applications</i> , 2020, 79, 588-602.	2.7	6
51	Local discontinuous Galerkin method based on a family of second-order time approximation schemes for fractional mobile/immobile convection-diffusion equations. <i>Applied Numerical Mathematics</i> , 2022, 179, 149-169.	2.1	6
52	A coupling method based on new MFE and FE for fourth-order parabolic equation. <i>Journal of Applied Mathematics and Computing</i> , 2013, 43, 249-269.	2.5	5
53	A Weak Galerkin Finite Element Method for High Dimensional Time-fractional Diffusion Equation. <i>Applied Mathematics and Computation</i> , 2020, 386, 125524.	2.2	5
54	TT-M FE method for a 2D nonlinear time distributed-order and space fractional diffusion equation. <i>Mathematics and Computers in Simulation</i> , 2021, 181, 117-137.	4.4	5

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55	Fourth-order compact difference schemes for the two-dimensional nonlinear fractional mobile/immobile transport models. <i>Computers and Mathematics With Applications</i> , 2021, 100, 1-10.	2.7	5
56	Local discontinuous Galerkin method combined with the L2 formula for the time fractional Cable model. <i>Journal of Applied Mathematics and Computing</i> , 2022, 68, 4457-4478.	2.5	5
57	A New Positive Definite Expanded Mixed Finite Element Method for Parabolic Integrodifferential Equations. <i>Journal of Applied Mathematics</i> , 2012, 2012, 1-24.	0.9	4
58	TGMFE algorithm combined with some time second-order schemes for nonlinear fourth-order reaction diffusion system. <i>Results in Applied Mathematics</i> , 2019, 4, 100080.	1.3	4
59	High-Order Local Discontinuous Galerkin Algorithm with Time Second-Order Schemes for the Two-Dimensional Nonlinear Fractional Diffusion Equation. <i>Communications on Applied Mathematics and Computation</i> , 2020, 2, 613-640.	1.7	4
60	Efficient numerical algorithm with the second-order time accuracy for a two-dimensional nonlinear fourth-order fractional wave equation. <i>Results in Applied Mathematics</i> , 2022, 14, 100264.	1.3	4
61	A Coupling Method of New EMFE and FE for Fourth-Order Partial Differential Equation of Parabolic Type. <i>Advances in Mathematical Physics</i> , 2013, 2013, 1-14.	0.8	3
62	A New Linearized Crank-Nicolson Mixed Element Scheme for the Extended Fisher-Kolmogorov Equation. <i>Scientific World Journal</i> , The, 2013, 2013, 1-11.	2.1	3
63	Finite volume element methods for two-dimensional time fractional reaction-diffusion equations on triangular grids. <i>Applicable Analysis</i> , 2023, 102, 2248-2270.	1.3	3
64	Second-Order Time Stepping Scheme Combined with a Mixed Element Method for a 2D Nonlinear Fourth-Order Fractional Integro-Differential Equations. <i>Fractal and Fractional</i> , 2022, 6, 201.	3.3	3
65	A Time Two-Mesh Compact Difference Method for the One-Dimensional Nonlinear Schrödinger Equation. <i>Entropy</i> , 2022, 24, 806.	2.2	3
66	TT-M Finite Element Algorithm for the Coupled Schrödinger-Boussinesq Equations. <i>Axioms</i> , 2022, 11, 314.	1.9	3
67	A Novel Characteristic Expanded Mixed Method for Reaction-Convection-Diffusion Problems. <i>Journal of Applied Mathematics</i> , 2013, 2013, 1-11.	0.9	2
68	A MFE method combined with L1-approximation for a nonlinear time-fractional coupled diffusion system. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2017, 08, 1750012.	1.4	2
69	A Mixed Element Algorithm Based on the Modified L1 Crank-Nicolson Scheme for a Nonlinear Fourth-Order Fractional Diffusion-Wave Model. <i>Fractal and Fractional</i> , 2021, 5, 274.	3.3	2
70	A splitting mixed space-time discontinuous Galerkin method for parabolic problems. <i>Procedia Engineering</i> , 2012, 31, 1050-1059.	1.2	1
71	A New Expanded Mixed Element Method for Convection-Dominated Sobolev Equation. <i>Scientific World Journal</i> , The, 2014, 2014, 1-13.	2.1	1
72	The Numerical Analysis and Simulation of a Linearized Crank-Nicolson H^1 -GMFEM for Nonlinear Coupled BBM Equations. <i>Applied Mechanics and Materials</i> , 2014, 513-517, 1919-1926.	0.2	1

#	ARTICLE	IF	CITATIONS
73	An expanded mixed covolume element method for integro-differential equation of Sobolev type on triangular grids. <i>Advances in Difference Equations</i> , 2017, 2017, .	3.5	1
74	A Splitting Mixed Covolume Method for Viscoelastic Wave Equations on Triangular Grids. <i>Mediterranean Journal of Mathematics</i> , 2020, 17, 1.	0.8	1
75	FINITE DIFFERENCE/ H^1 -GALERKIN MFE PROCEDURE FOR A FRACTIONAL WATER WAVE MODEL. <i>Journal of Applied Analysis and Computation</i> , 2016, 6, 409-428.	0.5	1
76	FINITE ELEMENT ALGORITHM BASED ON HIGH-ORDER TIME APPROXIMATION FOR TIME FRACTIONAL CONVECTION-DIFFUSION EQUATION. <i>Journal of Applied Analysis and Computation</i> , 2018, 8, 229-249.	0.5	1
77	Efficient time second-order SCQ formula combined with a mixed element method for a nonlinear time fractional wave model. <i>Electronic Research Archive</i> , 2022, 30, 440-458.	0.9	1