Xin-Long Feng

List of Publications by Year
in descending order

202 papers	2,855 citations	236612 25 h-index	329751 37 g-index
202 all docs	202 docs citations	202 times ranked	962 citing authors

#	Article	IF	Citations
1	Stabilized Crank-Nicolson/Adams-Bashforth Schemes for Phase Field Models. East Asian Journal on Applied Mathematics, 2013, 3, 59-80.	0.4	82
2	Long Time Numerical Simulations for Phase-Field Problems Using p-Adaptive Spectral Deferred Correction Methods. SIAM Journal of Scientific Computing, 2015, 37, A271-A294.	1.3	70
3	An efficient algorithm for solving Troeschâ€™s problem. Applied Mathematics and Computation, 2007, 189, 500-507.	1.4	68
4	An unconditionally stable compact ADI method for three-dimensional time-fractional convectionâ€"diffusion equation. Journal of Computational Physics, 2014, 269, 138-155.	1.9	64
5	Nonlinear stability of the implicit-explicit methods for the Allen-Cahn equation. Inverse Problems and Imaging, 2013, 7, 679-695.	0.6	61
6	The rank of a random matrix. Applied Mathematics and Computation, 2007, 185, 689-694.	1.4	56
7	A Fourier spectral method for fractional-in-space Cahnâ€"Hilliard equation. Applied Mathematical Modelling, 2017, 42, 462-477.	2.2	54
8	Fast explicit operator splitting method and time-step adaptivity for fractional non-local Allenâ€"Cahn model. Applied Mathematical Modelling, 2016, 40, 1315-1324.	2.2	51
9	A hybrid Bayesian network approach for trade-offs between environmental flows and agricultural water using dynamic discretization. Advances in Water Resources, 2017, 110, 445-458.	1.7	46
10	The local discontinuous Galerkin finite element method for Burgerâ€™s equation. Mathematical and Computer Modelling, 2011, 54, 2943-2954.	2.0	45
11	Numerical simulation of the three dimensional Allenâ€"Cahn equation by the high-order compact ADI method. Computer Physics Communications, 2014, 185, 2449-2455.	3.0	43
12	Investigations on several numerical methods for the non-local Allenâ€"Cahn equation. International Journal of Heat and Mass Transfer, 2015, 87, 111-118.	2.5	38
13	Stabilized Integrating Factor Runge--Kutta Method and Unconditional Preservation of Maximum Bound Principle. SIAM Journal of Scientific Computing, 2021, 43, A1780-A1802.	1.3	36
14	Two-level defect-correction Oseen iterative stabilized finite element methods for the stationary Navierâ€"Stokes equations. Applied Mathematical Modelling, 2013, 37, 728-741.	2.2	34
15	RBF-FD method for the high dimensional time fractional convection-diffusion equation. International Communications in Heat and Mass Transfer, 2017, 89, 230-240.	2.9	33
16	A block-centered characteristic finite difference method for convection-dominated diffusion equation. International Communications in Heat and Mass Transfer, 2015, 61, 1-7.	2.9	31
17	Multiquadric RBF-FD method for the convection-dominated diffusion problems base on Shishkin nodes. International Journal of Heat and Mass Transfer, 2018, 118, 734-745.	2.5	31
18	The characteristic finite difference streamline diffusion method for convection-dominated diffusion problems. Applied Mathematical Modelling, 2012, 36, 561-572.	2.2	30

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19	A Family of Fourth-Order and Sixth-Order Compact Difference Schemes for the Three-Dimensional Poisson Equation. Journal of Scientific Computing, 2013, 54, 97-120.	1.1	30
20	A decision-making framework to model environmental flow requirements in oasis areas using Bayesian networks. Journal of Hydrology, 2016, 540, 1209-1222.	2.3	30
21	Iterative methods in penalty finite element discretization for the steady MHD equations. Computer Methods in Applied Mechanics and Engineering, 2016, 304, 521-545.	3.4	29
22	Numerical simulation of binary fluidâ€“surfactant phase field model coupled with geometric curvature on the curved surface. Computer Methods in Applied Mechanics and Engineering, 2020, 367, 113123.	3.4	29
23	Global asymptotical properties for a diffused HBV infection model with CTL immune response and nonlinear incidence. Acta Mathematica Scientia, 2011, 31, 1959-1967.	0.5	28
24	Two-level stabilized method based on three corrections for the stationary Navierâ€“Stokes equations. Applied Numerical Mathematics, 2012, 62, 988-1001.	1.2	28
25	An efficient two-step algorithm for steady-state natural convection problem. International Journal of Heat and Mass Transfer, 2016, 101, 387-398.	2.5	28
26	Locally stabilized<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si78.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>P</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></m quadrilateral and hexahedral finite element methods for the Stokes equations. Journal of Computational and Applied Mathematics, 2011, 236, 714-727.	1.1	27
27	H -adaptive RBF-FD method for the high-dimensional convection-diffusion equation. International Communications in Heat and Mass Transfer, 2017, 89, 139-146.	2.9	27
28	Finite element method for twoâ€dimensional timeâ€fractional tricomiâ€type equations. Numerical Methods for Partial Differential Equations, 2013, 29, 1081-1096.	2.0	26
29	The characteristic variational multiscale method for convection-dominated convectionâ€“diffusionâ€“reaction problems. International Journal of Heat and Mass Transfer, 2014, 72, 461-469.	2.5	25
30	RBF-based meshless local Petrov Galerkin method for the multi-dimensional convectionâ€“diffusion-reaction equation. Engineering Analysis With Boundary Elements, 2019, 98, 46-53.	2.0	25
31	A highly efficient operator-splitting finite element method for 2D/3D nonlinear Allenâ€“Cahn equation. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 530-542.	1.6	24
32	Pressure-Correction Projection FEM for Time-Dependent Natural Convection Problem. Communications in Computational Physics, 2017, 21, 1090-1117.	0.7	24
33	Unconditionally stable Gaugeâ€“Uzawa finite element schemes for incompressible natural convection problems with variable density. Journal of Computational Physics, 2017, 348, 776-789.	1.9	24
34	Numerical simulations for the chemotaxis models on surfaces via a novel characteristic finite element method. Computers and Mathematics With Applications, 2019, 78, 20-34.	1.4	24
35	A compact integrated RBF method for time fractional convectionâ€“diffusionâ€“reaction equations. Computers and Mathematics With Applications, 2019, 77, 2263-2278.	1.4	24
36	High order iterative methods without derivatives for solving nonlinear equations. Applied Mathematics and Computation, 2007, 186, 1617-1623.	1.4	23

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37	A New Variational Multiscale FEM for the Steady-State Natural Convection Problem with Bubble Stabilization. Numerical Heat Transfer; Part A: Applications, 2015, 68, 777-796.	1.2	23
38	Unconditionally maximum principle preserving finite element schemes for the surface Allenâ€“Cahn type equations. Numerical Methods for Partial Differential Equations, 2020, 36, 418-438.	2.0	23
39	A Novel Method to Deduce a High-Order Compact Difference Scheme for the Three-Dimensional Semilinear Convection-Diffusion Equation with Variable Coefficients. Numerical Heat Transfer, Part B: Fundamentals, 2013, 63, 425-455.	0.6	22
40	$$H^2$$ H 2 -Stability of the First Order Fully Discrete Schemes for the Time-Dependent Navierâ€“Stokes Equations. Journal of Scientific Computing, 2015, 62, 230-264.	1.1	22
41	Two-Level Penalty Newton Iterative Method for the 2D/3D Stationary Incompressible Magnetohydrodynamics Equations. Journal of Scientific Computing, 2017, 70, 1144-1179.	1.1	22
42	The semi-discrete streamline diffusion finite element method for time-dependented convectionâ€“diffusion problems. Applied Mathematics and Computation, 2008, 202, 771-779.	1.4	21
43	A new mixed finite element method based on the Crankâ€“Nicolson scheme for the parabolic problems. Applied Mathematical Modelling, 2012, 36, 5068-5079.	2.2	21
44	Highly efficient and local projection-based stabilized finite element method for natural convection problem. International Journal of Heat and Mass Transfer, 2015, 83, 357-365.	2.5	21
45	A block-centered finite-difference method for the time-fractional diffusion equation on nonuniform grids. Numerical Heat Transfer, Part B: Fundamentals, 2016, 69, 217-233.	0.6	21
46	The lumped mass finite element method for surface parabolic problems: Error estimates and maximum principle. Computers and Mathematics With Applications, 2018, 76, 488-507.	1.4	21
47	Optimal Error Estimates of Penalty Based Iterative Methods for Steady Incompressible Magnetohydrodynamics Equations with Different Viscosities. Journal of Scientific Computing, 2019, 79, 1078-1110.	1.1	20
48	P 1-Nonconforming Quadrilateral Finite Volume Methods for the Semilinear Elliptic Equations. Journal of Scientific Computing, 2012, 52, 519-545.	1.1	19
49	Two-level defect-correction locally stabilized finite element method for the steady Navierâ€“Stokes equations. Nonlinear Analysis: Real World Applications, 2013, 14, 1171-1181.	0.9	19
50	A new method to deduce high-order compact difference schemes for two-dimensional Poisson equation. Applied Mathematics and Computation, 2014, 230, 9-26.	1.4	19
51	An Oseen scheme for the conductionâ€“convection equations based on a stabilized nonconforming method. Applied Mathematical Modelling, 2014, 38, 535-547.	2.2	19
52	A quadratic equal-order stabilized finite element method for the conductionâ€“convection equations. Computers and Fluids, 2013, 86, 169-176.	1.3	18
53	Two-level stabilized method based on Newton iteration for the steady Smagorinsky model. Nonlinear Analysis: Real World Applications, 2013, 14, 1795-1805.	0.9	18
54	Quantification of Environmental Flow Requirements to Support Ecosystem Services of Oasis Areas: A Case Study in Tarim Basin, Northwest China. Water (Switzerland), 2015, 7, 5657-5675.	1.2	18

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55	Two-level variational multiscale method based on the decoupling approach for the natural convection problem. International Communications in Heat and Mass Transfer, 2015, 61, 128-139.	2.9	18
56	Novel two-level discretization method for high dimensional semilinear elliptic problems base on RBF-FD scheme. Numerical Heat Transfer, Part B: Fundamentals, 2017, 72, 349-360.	0.6	18
57	Modeling and numerical simulation of surfactant systems with incompressible fluid flows on surfaces. Computer Methods in Applied Mechanics and Engineering, 2022, 390, 114450.	3.4	18
58	A lifted local Galerkin method for solving the reactionâ€“diffusion equations on implicit surfaces. Computer Physics Communications, 2018, 231, 107-113.	3.0	17
59	A stabilized extremumâ€preserving scheme for nonlinear parabolic equation on polygonal meshes. International Journal for Numerical Methods in Fluids, 2019, 90, 340-356.	0.9	17
60	A positivity preserving characteristic finite element method for solving the transport and convectionâ€“diffusionâ€“reaction equations on general surfaces. Computer Physics Communications, 2020, 247, 106941.	3.0	17
61	Estimation of parameters of the Makeham distribution using the least squares method. Mathematics and Computers in Simulation, 2008, 77, 34-44.	2.4	16
62	On error estimates of the penalty method for the viscoelastic flow problem I: Time discretization. Applied Mathematical Modelling, 2010, 34, 4089-4105.	2.2	16
63	Two-level defect-correction Oseen iterative stabilized finite element method for the stationary conductionâ€“convection equations. International Communications in Heat and Mass Transfer, 2014, 56, 133-145.	2.9	16
64	Ensemble Time-Stepping Algorithm for the Convection-Diffusion Equation with Random Diffusivity. Journal of Scientific Computing, 2019, 79, 1271-1293.	1.1	16
65	A Fully Discrete Stabilized Mixed Finite Element Method for Parabolic Problems. Numerical Heat Transfer; Part A: Applications, 2013, 63, 755-775.	1.2	15
66	Godunov Method for Stefan Problems with Enthalpy Formulations. East Asian Journal on Applied Mathematics, 2013, 3, 107-119.	0.4	15
67	Second order fully discrete and divergence free conserving scheme for time-dependent conductionâ€“convection equations. International Communications in Heat and Mass Transfer, 2014, 59, 120-129.	2.9	15
68	High-order compact operator splitting method for three-dimensional fractional equation with subdiffusion. International Journal of Heat and Mass Transfer, 2015, 84, 440-447.	2.5	15
69	An efficient two-step algorithm for the incompressible flow problem. Advances in Computational Mathematics, 2015, 41, 1059-1077.	0.8	15
70	Implicitâ€“explicit schemes of finite element method for the non-stationary thermal convection problems with temperature-dependent coefficients. International Communications in Heat and Mass Transfer, 2016, 76, 325-336.	2.9	15
71	Investigations on several compact ADI methods for the 2D time fractional diffusion equation. Numerical Heat Transfer, Part B: Fundamentals, 2016, 69, 364-376.	0.6	15
72	Meshless local Petrov Galerkin method for 2D/3D nonlinear convectionâ€“diffusion equations based on LS-RBF-PUM. Numerical Heat Transfer, Part B: Fundamentals, 2018, 74, 450-464.	0.6	15

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73	A novel parallel two-step algorithm based on finite element discretization for the incompressible flow problem. Numerical Heat Transfer, Part B: Fundamentals, 2018, 73, 329-341.	0.6	15
74	Finite volume method based on stabilized finite elements for the nonstationary Navierâ€“Stokes problem. Numerical Methods for Partial Differential Equations, 2007, 23, 1167-1191.	2.0	14
75	Two-level stabilized finite element method for Stokes eigenvalue problem. Applied Mathematics and Mechanics (English Edition), 2012, 33, 621-630.	1.9	14
76	A stabilized implicit fractional-step method for the time-dependent Navierâ€“Stokes equations using equal-order pairs. Journal of Mathematical Analysis and Applications, 2012, 392, 209-224.	0.5	14
77	The characteristic variational multiscale method for time dependent conductionâ€“convection problems. International Communications in Heat and Mass Transfer, 2015, 68, 58-68.	2.9	14
78	A novel high-order ADI method for 3D fractionalconvectionâ€“diffusion equations. International Communications in Heat and Mass Transfer, 2015, 66, 212-217.	2.9	14
79	An efficient two-step algorithm for the stationary incompressible magnetohydrodynamic equations. Applied Mathematics and Computation, 2017, 302, 21-33.	1.4	14
80	Second order fully discrete defectâ€correction scheme for nonstationary conductionâ€convection problem at high <scp>R</scp>eynolds number. Numerical Methods for Partial Differential Equations, 2017, 33, 681-703.	2.0	14
81	Stability and Error Estimate of the Operator Splitting Method for the Phase Field Crystal Equation. Journal of Scientific Computing, 2021, 86, 1.	1.1	14
82	Unconditionally Maximum Bound Principle Preserving Linear Schemes for the Conservative Allenâ€“Cahn Equation with Nonlocal Constraint. Journal of Scientific Computing, 2021, 87, 1.	1.1	14
83	Convergence analysis of an implicit fractional-step method for the incompressible Navierâ€“Stokes equations. Applied Mathematical Modelling, 2011, 35, 5856-5871.	2.2	13
84	On error estimates of the fully discrete penalty method for the viscoelastic flow problem. International Journal of Computer Mathematics, 2011, 88, 2199-2220.	1.0	13
85	The Spectral Collocation Method for the Stochastic Allen-Cahn Equation via Generalized Polynomial Chaos. Numerical Heat Transfer, Part B: Fundamentals, 2015, 68, 11-29.	0.6	13
86	Generalized polynomial chaos for the convection diffusion equation with uncertainty. International Journal of Heat and Mass Transfer, 2016, 97, 289-300.	2.5	13
87	Some Uzawa-type finite element iterative methods for the steady incompressible magnetohydrodynamic equations. Applied Mathematics and Computation, 2017, 302, 34-47.	1.4	13
88	A partitioned finite element scheme based on Gauge-Uzawa method for time-dependent MHD equations. Numerical Algorithms, 2018, 78, 277-295.	1.1	13
89	Two types of spurious oscillations at layers diminishing methods for convectionâ€“diffusionâ€“reaction equations on surface. Numerical Heat Transfer; Part A: Applications, 2018, 74, 1387-1404.	1.2	13
90	The characteristic RBF-FD method for the convection-diffusion-reaction equation on implicit surfaces. Numerical Heat Transfer; Part A: Applications, 2019, 75, 548-559.	1.2	13

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91	On uniform in time H^2-regularity of the solution for the 2D Cahn-Hilliard equation. Discrete and Continuous Dynamical Systems, 2016, 36, 5387-5400.	0.5	13
92	Two-Level Stabilized, Nonconforming Finite-Element Algorithms for the Stationary Conduction-Convection Equations. Numerical Heat Transfer, Part B: Fundamentals, 2014, 66, 211-242.	0.6	12
93	A New High-Order Compact ADI Method for 3-D Unsteady Convection-Diffusion Problems with Discontinuous Coefficients. Numerical Heat Transfer, Part B: Fundamentals, 2014, 65, 376-391.	0.6	12
94	An efficient space-time operator-splitting method for high-dimensional vector-valued Allenâ€“Cahn equations. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 3437-3453.	1.6	12
95	An efficient time adaptivity based on chemical potential for surface Cahnâ€“Hilliard equation using finite element approximation. Applied Mathematics and Computation, 2020, 369, 124901.	1.4	12
96	An Efficient Algorithm with High Accuracy for Time-Space Fractional Heat Equations. Numerical Heat Transfer, Part B: Fundamentals, 2015, 67, 550-562.	0.6	11
97	Recovery-Based Error Estimator for Stabilized Finite Element Method for the Stationary Navier--Stokes Problem. SIAM Journal of Scientific Computing, 2016, 38, A3758-A3772.	1.3	11
98	Analysis of the operator splitting scheme for the Cahnâ€Hilliard equation with a viscosity term. Numerical Methods for Partial Differential Equations, 2019, 35, 1949-1970.	2.0	11
99	A novel characteristic variational multiscale FEM for incompressible natural convection problem with variable density. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 580-601.	1.6	11
100	An efficient operator-splitting FEM-FCT algorithm for 3D chemotaxis models. Engineering With Computers, 2020, 36, 1393-1404.	3.5	11
101	A two-grid stabilized mixed finite element method for semilinear elliptic equations. Applied Mathematical Modelling, 2013, 37, 7037-7046.	2.2	10
102	A stabilized finite element method for the time-dependent Stokes equations based on Crankâ€“Nicolson Scheme. Applied Mathematical Modelling, 2013, 37, 1910-1919.	2.2	10
103	The local discontinuous Galerkin finite element method for a class of convectionâ€“diffusion equations. Nonlinear Analysis: Real World Applications, 2013, 14, 734-752.	0.9	10
104	Uniform H2-regularity of solution for the 2D Navierâ€“Stokes/Cahnâ€“Hilliard phase field model. Journal of Mathematical Analysis and Applications, 2016, 441, 815-829.	0.5	10
105	A gradientÂrecoveryâ€“based adaptive finite element method for convectionâ€diffusionâ€reaction equations on surfaces. International Journal for Numerical Methods in Engineering, 2019, 120, 901-917.	1.5	10
106	Parallel two-step finite element algorithm for the stationary incompressible magnetohydrodynamic equations. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 2709-2727.	1.6	10
107	A second-order maximum bound principle preserving operator splitting method for the Allenâ€“Cahn equation with applications in multi-phase systems. Mathematics and Computers in Simulation, 2022, 202, 36-58.	2.4	10
108	An accurate and parallel method with post-processing boundedness control for solving the anisotropic phase-field dendritic crystal growth model. Communications in Nonlinear Science and Numerical Simulation, 2022, 115, 106717.	1.7	10

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109	Investigations on two kinds of two-grid mixed finite element methods for the elliptic eigenvalue problem. Computers and Mathematics With Applications, 2012, 64, 2635-2646.	1.4	9
110	?Â¹-Superconvergence of a difference finite element method based on the ?â‚•?â‚•conforming element on non-uniform meshes for the 3D Poisson equation. Mathematics of Computation, 2018, 87, 1659-1688.	1.1	9
111	Parallel two-step finite element algorithm based on fully overlapping domain decomposition for the time-dependent natural convection problem. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 496-515.	1.6	9
112	Investigations on several high-order ADI methods for time-space fractional diffusion equation. Numerical Algorithms, 2019, 82, 69-106.	1.1	9
113	On Two-Level Oseen Penalty Iteration Methods for the 2D/3D Stationary Incompressible Magnetohydronamics. Journal of Scientific Computing, 2020, 83, 1.	1.1	9
114	The stabilized semi-implicit finite element method for the surface Allen-Cahn equation. Discrete and Continuous Dynamical Systems - Series B, 2017, 22, 2857-2877.	0.5	9
115	The convergence of a new parallel algorithm for the Navierâ€"Stokes equations. Nonlinear Analysis: Real World Applications, 2009, 10, 23-41.	0.9	8
116	New High-Order Compact ADI Algorithms for 3D Nonlinear Time-Fractional Convection-Diffusion Equation. Mathematical Problems in Engineering, 2013, 2013, 1-11.	0.6	8
117	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si72.gif" overflow="scroll"><mml:mrow><mml:msup><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></ of center finite difference method based on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si73.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>P</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></ Applied Mathematical Modelling, 2014, 38, 5439-5455.	2.2	8
118	How to obtain an accurate gradient for interface problems?. Journal of Computational Physics, 2020, 405, 109070.	1.9	8
119	Novel fractional time-stepping algorithms for natural convection problems with variable density. Applied Numerical Mathematics, 2020, 151, 64-84.	1.2	8
120	Divergence-free radial kernel for surface Stokes equations based on the surface Helmholtz decomposition. Computer Physics Communications, 2020, 256, 107408.	3.0	8
121	A positivity-preserving finite volume scheme for three-temperature radiation diffusion equations. Applied Numerical Mathematics, 2020, 152, 125-140.	1.2	8
122	Application of modified homotopy perturbation method for solving the augmented systems. Journal of Computational and Applied Mathematics, 2009, 231, 288-301.	1.1	7
123	Modified homotopy perturbation method for solving the Stokes equations. Computers and Mathematics With Applications, 2011, 61, 2262-2266.	1.4	7
124	Numerical Investigations on Several Stabilized Finite Element Methods for the Stokes Eigenvalue Problem. Mathematical Problems in Engineering, 2011, 2011, 1-14.	0.6	7
125	A new defectâ€correction method for the stationary Navierâ€"Stokes equations based on local Gauss integration. Mathematical Methods in the Applied Sciences, 2012, 35, 1033-1046.	1.2	7
126	An improved two-grid finite element method for the Steklov eigenvalue problem. Applied Mathematical Modelling, 2015, 39, 2962-2972.	2.2	7

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127	A new mixed finite element method based on the Crank-Nicolson scheme for Burgersâ€™ equation. Applications of Mathematics, 2016, 61, 27-45.	0.9	7
128	Two-level meshless local Petrov Galerkin method for multi-dimensional nonlinear convectionâ€"diffusion equation based on radial basis function. Numerical Heat Transfer, Part B: Fundamentals, 2018, 74, 685-698.	0.6	7
129	A novel pressure-correction projection finite element method for incompressible natural convection problem with variable density. Numerical Heat Transfer; Part A: Applications, 2018, 74, 1001-1017.	1.2	7
130	A New Optimization Method for the Layout of Pumping Wells in Oases: Application in the Qira Oasis, Northwest China. Water (Switzerland), 2019, 11, 970.	1.2	7
131	A Petrovâ€"Galerkin finite element method for simulating chemotaxis models on stationary surfaces. Computers and Mathematics With Applications, 2020, 79, 3189-3205.	1.4	7
132	Second order unconditional linear energy stable, rotational velocity correction method for unsteady incompressible magneto-hydrodynamic equations. Computers and Fluids, 2022, 236, 105300.	1.3	7
133	Uniform Stability and Convergence with Respect to $$(u , mu , s, 1-sigma)$$ of the Three Iterative Finite Element Solutions for the 3D Steady MHD Equations. Journal of Scientific Computing, 2022, 90, 1.	1.1	7
134	An efficient maximum bound principle preserving p-adaptive operator-splitting method for three-dimensional phase field shape transformation model. Computers and Mathematics With Applications, 2022, 120, 78-91.	1.4	7
135	A stabilised nonconforming finite element method for steady incompressible flows. International Journal of Computational Fluid Dynamics, 2012, 26, 133-144.	0.5	6
136	WO-GRID METHOD FOR BURGERSâ€™ EQUATION BY A NEW MIXED FINITE ELEMENT SCHEME. Mathematical Modelling and Analysis, 2014, 19, 1-17.	0.7	6
137	Convergence of the crank-nicolson/newton scheme for nonlinear parabolic problem. Acta Mathematica Scientia, 2016, 36, 124-138.	0.5	6
138	Defect-correction finite element method based on Crank-Nicolson extrapolation scheme for the transient conduction-convection problem with high Reynolds number. International Communications in Heat and Mass Transfer, 2017, 81, 229-249.	2.9	6
139	Error estimates of fully discrete finite element solutions for the 2D Cahnâ€"Hilliard equation with infinite time horizon. Numerical Methods for Partial Differential Equations, 2017, 33, 742-762.	2.0	6
140	The local tangential lifting method for moving interface problems on surfaces with applications. Journal of Computational Physics, 2021, 431, 110146.	1.9	6
141	Fully decoupled, linear and positivity-preserving scheme for the chemotaxisâ€"Stokes equations. Computer Methods in Applied Mechanics and Engineering, 2021, 383, 113909.	3.4	6
142	Model order reduction method based on (r)POD-ANNs for parameterized time-dependent partial differential equations. Computers and Fluids, 2022, 241, 105481.	1.3	6
143	New predictorâ€"corrector methods of second-order for solving nonlinear equations. International Journal of Computer Mathematics, 2011, 88, 296-313.	1.0	5
144	Analysis of two-grid method for semi-linear elliptic equations by new mixed finite element scheme. Applied Mathematics and Computation, 2013, 219, 4826-4835.	1.4	5

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145	Error estimates for twoâ€level penalty finite volume method for the stationary Navierâ€“Stokes equations. Mathematical Methods in the Applied Sciences, 2013, 36, 1918-1928.	1.2	5
146	Acceleration of two-grid stabilized mixed finite element method for the Stokes eigenvalue problem. Applications of Mathematics, 2014, 59, 615-630.	0.9	5
147	An adaptive local grid refinement method for 2D diffusion equation with variable coefficients based on block-centered finite differences. Applied Mathematics and Computation, 2015, 268, 284-294.	1.4	5
148	A positivity-preserving nonlinear finite volume scheme for radionuclide transport calculations in geological radioactive waste repository. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 30, 516-534.	1.6	5
149	Crankâ€“Nicolson Leap-Frog Time Stepping Decoupled Scheme for the Fluidâ€“Fluid Interaction Problems. Journal of Scientific Computing, 2020, 84, 1.	1.1	5
150	A layers capturing type H-adaptive finite element method for convectionâ€“diffusionâ€“reaction equations on surfaces. Computer Methods in Applied Mechanics and Engineering, 2020, 361, 112792.	3.4	5
151	Gradient recovery-based adaptive stabilized mixed FEM for the convectionâ€“diffusionâ€“reaction equation on surfaces. Computer Methods in Applied Mechanics and Engineering, 2021, 380, 113798.	3.4	5
152	Fourth order compact FD methods for convection diffusion equations with variable coefficients. Applied Mathematics Letters, 2021, 121, 107413.	1.5	5
153	Parametric iterative methods of second-order for solving nonlinear equation. Applied Mathematics and Computation, 2006, 173, 1060-1067.	1.4	4
154	Three Iterative Finite Element Methods for the Stationary Smagorinsky Model. East Asian Journal on Applied Mathematics, 2014, 4, 132-151.	0.4	4
155	Second order timeâ€“space iterative method for the stationary Navierâ€“Stokes equations. Applied Mathematics Letters, 2016, 59, 79-86.	1.5	4
156	Reconstructing meteorological time series to quantify the uncertainties of runoff simulation in the ungauged Qira River Basin using data from multiple stations. Theoretical and Applied Climatology, 2016, 126, 61-76.	1.3	4
157	Local projection stabilized and characteristic decoupled scheme for the fluidâ€“fluid interaction problems. Numerical Methods for Partial Differential Equations, 2017, 33, 704-723.	2.0	4
158	A new high-order compact ADI finite difference scheme for solving 3D nonlinear SchrÃ¶dinger equation. Advances in Difference Equations, 2018, 2018, .	3.5	4
159	Numerical simulations for the predator-prey model on surfaces with lumped mass method. Engineering With Computers, 2020, 37, 2047.	3.5	4
160	A novel cell-centered finite volume scheme with positivity-preserving property for the anisotropic diffusion problems on general polyhedral meshes. Applied Mathematics Letters, 2020, 104, 106252.	1.5	4
161	Superconvergence in H1-norm of a difference finite element method for the heat equation in a 3D spatial domain with almost-uniform mesh. Numerical Algorithms, 2021, 86, 357-395.	1.1	4
162	Fast numerical approximation for the space-fractional semilinear parabolic equations on surfaces. Engineering With Computers, 2022, 38, 1939-1953.	3.5	4

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163	Difference finite element method for the 3D steady Stokes equations. Applied Numerical Mathematics, 2022, 173, 418-433.	1.2	4
164	Error Estimate of Unconditionally Stable and Decoupled Linear Positivity-Preserving FEM for the Chemotaxis-Stokes Equations. SIAM Journal on Numerical Analysis, 2021, 59, 3052-3076.	1.1	4
165	Numerical Study on an RBF-FD Tangent Plane Based Method for Convectionâ€“Diffusion Equations on Anisotropic Evolving Surfaces. Entropy, 2022, 24, 857.	1.1	4
166	New predictor-corrector methods for solving nonlinear equations. Journal of Applied Mathematics and Computing, 2010, 34, 299-315.	1.2	3
167	Convergence and stability of two-level penalty mixed finite element method for stationary Navier-Stokes equations. Frontiers of Mathematics in China, 2013, 8, 837-854.	0.4	3
168	Two-level stabilized nonconforming finite element method for the Stokes equations. Applications of Mathematics, 2013, 58, 643-656.	0.9	3
169	A ROBUST HIGH-ORDER COMPACT METHOD FOR THE THREE DIMENSIONAL NONLINEAR BIHARMONIC EQUATIONS. International Journal of Computational Methods, 2014, 11, 1350065.	0.8	3
170	A new coupled high-order compact method for the three-dimensional nonlinear biharmonic equations. International Journal of Computer Mathematics, 2014, 91, 2307-2325.	1.0	3
171	MODIFIED METHOD OF CHARACTERISTICS VARIATIONAL MULTISCALE FINITE ELEMENT METHOD FOR TIME DEPENDENT NAVIER-STOKES PROBLEMS. Mathematical Modelling and Analysis, 2015, 20, 658-680.	0.7	3
172	Second Order Convergence of the Interpolation based on<i />-Element. Numerical Mathematics, 2016, 9, 595-618.	0.6	3
173	H 1 â€superconvergence of finite difference method based on Q 1 â€element on quasiâ€uniform mesh for the 3D Poisson equation. Numerical Methods for Partial Differential Equations, 2020, 36, 29-48.	2.0	3
174	Variational multiscale virtual element method for the convection-dominated diffusion problem. Applied Mathematics Letters, 2021, 117, 107077.	1.5	3
175	NUMERICAL METHODS OF NEW MIXED FINITE ELEMENT SCHEME FOR SINGLE-PHASE COMPRESSIBLE FLOW. International Journal of Computational Methods, 2014, 11, 1350055.	0.8	2
176	The Hermitian Positive Definite Solution of the Nonlinear Matrix Equation. International Journal of Nonlinear Sciences and Numerical Simulation, 2017, 18, 293-301.	0.4	2
177	Streamline diffusion finite element method for stationary incompressible natural convection problem. Numerical Heat Transfer, Part B: Fundamentals, 2018, 74, 519-537.	0.6	2
178	Method of Order Reduction for the High-Dimensional Convection-Diffusion-Reaction Equation with Robin Boundary Conditions Based on MQ RBF-FD. International Journal of Computational Methods, 2020, 17, 1950058.	0.8	2
179	Long time error estimates of IFE methods for the unsteady multi-layer porous wall model. Applied Numerical Mathematics, 2020, 156, 303-321.	1.2	2
180	A Meshless Local Radial Point Collocation Method for Simulating the Time-Fractional Convection-Diffusion Equations on Surfaces. International Journal of Computational Methods, 2021, 18, 2150006.	0.8	2

#	Article	IF	Citations
181	Effective velocity-correction projection methods for unsteady incompressible natural convection equations. International Communications in Heat and Mass Transfer, 2021, 121, 104860.	2.9	2
182	Penalty decoupled iterative methods for the stationary natural convection equations with different Rayleigh numbers. Applied Numerical Mathematics, 2021, 163, 270-291.	1.2	2
183	H¹-Stability and Convergence of the FE, FV and FD Methods for an Elliptic Equation. East Asian Journal on Applied Mathematics, 2013, 3, 154-170.	0.4	2
184	Fourth-Order Compact Split-Step Finite Difference Method for Solving the Two and Three-Dimensional Nonlinear SchrÃ¶dinger Equations. Advances in Applied Mathematics and Mechanics, 2018, 10, 879-895.	0.7	2
185	Two-level Newton iterative method based on nonconforming finite element discretization for 2D/3D stationary MHD equations. Computers and Fluids, 2022, 238, 105372.	1.3	2
186	Optimal Convergence Analysis of Two-Level Nonconforming Finite Element Iterative Methods for 2D/3D MHD Equations. Entropy, 2022, 24, 587.	1.1	2
187	A stabilized difference finite element method for the 3D steady Stokes equations. Applied Mathematics and Computation, 2022, 430, 127270.	1.4	2
188	A non-intrusive neural network model order reduction algorithm for parameterized parabolic PDEs. Computers and Mathematics With Applications, 2022, 119, 59-67.	1.4	2
189	A Numerical Comparison of Finite Difference and Finite Element Methods for a Stochastic Differential Equation with Polynomial Chaos. East Asian Journal on Applied Mathematics, 2015, 5, 192-208.	0.4	1
190	Least-squares RBF-FD method for the incompressible Stokes equations with the singular source. Numerical Heat Transfer; Part A: Applications, 2019, 75, 739-752.	1.2	1
191	The stabilized lower-order and equal-order finite element methods for the hydrostatic Stokes problems. International Communications in Heat and Mass Transfer, 2020, 111, 104391.	2.9	1
192	An extremumâ€preserving finite volume scheme for threeâ€temperature radiation diffusion equations. Mathematical Methods in the Applied Sciences, 2022, 45, 4643-4660.	1.2	1
193	The numerical rank of a matrix and its applications. Applied Mathematics and Computation, 2008, 196, 416-421.	1.4	0
194	Numerical Study on Several Stabilized Finite Element Methods for the Steady Incompressible Flow Problem with Damping. Journal of Applied Mathematics, 2013, 2013, 1-10.	0.4	0
195	The characteristic subgrid artificial viscosity stabilized finite element method for the nonstationary Navierâ€"Stokes equations. International Communications in Heat and Mass Transfer, 2015, 65, 37-46.	2.9	0
196	Recovery-based error estimator for the natural-convection problem based on penalized finite element method. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 4850-4874.	1.6	0
197	An extremum-preserving finite volume scheme for convection-diffusion equation on general meshes. Applied Mathematics and Computation, 2020, 380, 125301.	1.4	0
198	Numerical Simulation of the Convectionâ€"Diffusion PDEs on a Sphere with RBF-FD and RBF-QR Methods. International Journal of Computational Methods, 0, , 2150020.	0.8	0

#	Article	IF	Citations
199	The cell-centered positivity-preserving finite volume scheme for 3D anisotropic diffusion problems on distorted meshes. Computer Physics Communications, 2021, 269, 108099.	3.0	0
200	On high-order compact schemes for the multidimensional time-fractional SchrÃ¶dinger equation. Advances in Difference Equations, 2020, 2020, .	3.5	0
201	Local tangential lifting virtual element method for the diffusionâ€“reaction equation on the non-flat Voronoi discretized surface. Engineering With Computers, 0, , 1.	3.5	0
202	Recovery-Based Error Estimator for Natural Convection Equations Based on Defect-Correction Methods. Entropy, 2022, 24, 255.	1.1	0