Kejia Pan

List of Publications by Year
in descending order

70 papers	778 citations	516710 16 h-index	610901 24 g-index
73 all docs	73 docs citations	73 times ranked	359 citing authors

#	Article	IF	Citations
1	A conservative difference scheme with optimal pointwise error estimates for two‑dimensional space fractional nonlinear Schrödinger equations. Numerical Methods for Partial Differential Equations, 2022, 38, 4-32.	3.6	2
2	A new FV scheme and fast cell-centered multigrid solver for 3D anisotropic diffusion equations with discontinuous coefficients. Journal of Computational Physics, 2022, 449, 110794.	3.8	8
3	The solution of the absolute value equations using two generalized accelerated overrelaxation methods. Asian-European Journal of Mathematics, 2022, 15, .	0.5	9
4	A new finite volume scheme with gradient transfer method for solving diffusion problems on the distorted hexahedral meshes. Computational Geosciences, 2022, 26, 279-294.	2.4	0
5	An efficient multigrid solver based on a four-color cell-block Gauss-Seidel smoother for 3D magnetotelluric forward modeling. Geophysics, 2022, 87, E121-E133.	2.6	17
6	A robust, interpolation‑free and monotone finite volume scheme for diffusion equations on arbitrary quadrilateral meshes. International Journal for Numerical Methods in Engineering, 2022, 123, 3631-3657.	2.8	2
7	Convergence Analysis of the Fully Discrete Hybridizable Discontinuous Galerkin Method for the Allen‑Cahn Equation Based on the Invariant Energy Quadratization Approach. Journal of Scientific Computing, 2022, 91, 1.	2.3	4
8	An extrapolation accelerated multiscale Newton-MG method for fourth-order compact discretizations of semilinear Poisson equations. Computers and Mathematics With Applications, 2022, 113, 189-197.	2.7	1
9	An efficient cascadic multigrid solver for 3-D magnetotelluric forward modelling problems using potentials. Geophysical Journal International, 2022, 230, 1834-1851.	2.4	10
10	Two New Iteration Methods with Optimal Parameters for Solving Absolute Value Equations. International Journal of Applied and Computational Mathematics, 2022, 8, .	1.6	7
11	An exact-interface-fitted mesh generator and linearity-preserving finite volume scheme for anisotropic elliptic interface problems. Journal of Computational Physics, 2022, , 111293.	3.8	0
12	A linearly implicit scheme and fast multigrid solver for 3D Fitzhugh-Nagumo equation. Computers and Mathematics With Applications, 2022, 117, 257-270.	2.7	0
13	Energy stable finite element method for an electrohydrodynamic model with variable density. Journal of Computational Physics, 2021, 424, 109870.	3.8	8
14	Positive-definiteness preserving and energy stable time-marching scheme for a diffusive Oldroyd-B electrohydrodynamic model. Communications in Nonlinear Science and Numerical Simulation, 2021, 95, 105630.	3.3	2
15	Efficient energy stable scheme for volume-conserved phase-field elastic bending energy model of lipid vesicles. Journal of Computational and Applied Mathematics, 2021, 385, 113177.	2.0	3
16	An efficient extrapolation full multigrid method for elliptic problems in two and three dimensions. International Journal of Computer Mathematics, 2021, 98, 1183-1198.	1.8	2
17	A fast forward algorithm for three-dimensional gravity gradient tensor using the compact difference schemes. IOP Conference Series: Earth and Environmental Science, 2021, 660, 012121.	0.3	0
18	Superconvergence of the space-time discontinuous Galerkin method for linear nonhomogeneous hyperbolic equations. Calcolo, 2021, 58, 1.	1.1	0

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19	A multigrid-reduction-in-time solver with a new two-level convergence for unsteady fractional Laplacian problems. Computers and Mathematics With Applications, 2021, 89, 57-67.	2.7	1
20	A High Order Compact FD Framework for Elliptic BVPs Involving Singular Sources, Interfaces, and Irregular Domains. Journal of Scientific Computing, 2021, 88, 1.	2.3	9
21	An ADI-Yee's scheme for Maxwell's equations with discontinuous coefficients. Journal of Computational Physics, 2021, 438, 110356.	3.8	3
22	An efficient multigrid solver for two-dimensional spatial fractional diffusion equations with variable coefficients. Applied Mathematics and Computation, 2021, 402, 126091.	2.2	8
23	Nonlinear Eyring–Powell bioconvective nanofluid flow over a vertical plate with temperature dependent viscosity and surface suction. International Communications in Heat and Mass Transfer, 2021, 128, 105602.	5.6	4
24	Pointwise error estimates of a linearized difference scheme for strongly coupled fractional Ginzburg–Landau equations. Mathematical Methods in the Applied Sciences, 2020, 43, 512-535.	2.3	10
25	An Efficient Preconditioner for 3-D Finite Difference Modeling of the Electromagnetic Diffusion Process in the Frequency Domain. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 500-509.	6.3	21
26	A spatial fourth-order maximum principle preserving operator splitting scheme for the multi-dimensional fractional Allen-Cahn equation. Applied Numerical Mathematics, 2020, 151, 44-63.	2.1	24
27	Numerical approximations of a hydro-dynamically coupled phase-field model for binary mixture of passive/active nematic liquid crystals and viscous fluids. Applied Numerical Mathematics, 2020, 158, 1-21.	2.1	7
28	Three-dimensional forward modelling of gravity field vector and its gradient tensor using the compact difference schemes. Geophysical Journal International, 2020, 224, 1272-1286.	2.4	6
29	A fourth-order difference scheme for the fractional nonlinear Schrödinger equation with wave operator. Applicable Analysis, 2020, , 1-17.	1.3	3
30	Linearized ADI schemes for two-dimensional space-fractional nonlinear Ginzburg–Landau equation. Computers and Mathematics With Applications, 2020, 80, 1201-1220.	2.7	32
31	A spatial sixth-order CCD-TVD method for solving multidimensional coupled Burgers' equation. Computational and Applied Mathematics, 2020, 39, 1.	2.2	1
32	Unconditionally energy stable schemes for an electrohydrodynamic model of charge transport in dielectric liquids. Computer Methods in Applied Mechanics and Engineering, 2020, 361, 112817.	6.6	12
33	A three-level linearized difference scheme for nonlinear Schrödinger equation with absorbing boundary conditions. Applied Numerical Mathematics, 2020, 156, 32-49.	2.1	3
34	Efficient numerical scheme for a penalized Allen–Cahn type Ohta–Kawasaki phase-field model for diblock copolymers. Journal of Computational and Applied Mathematics, 2020, 378, 112905.	2.0	8
35	A CCD-ADI method for two-dimensional linear and nonlinear hyperbolic telegraph equations with variable coefficients. International Journal of Computer Mathematics, 2019, 96, 992-1004.	1.8	4
36	A Positivity Preserving and Free Energy Dissipative Difference Scheme for the Poisson–Nernst–Planck System. Journal of Scientific Computing, 2019, 81, 436-458.	2.3	22

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37	Parallel-in-time multigrid for space–time finite element approximations of two-dimensional space-fractional diffusion equations. Computers and Mathematics With Applications, 2019, 78, 3471-3484.	2.7	17
38	Maximum norm error analysis of an unconditionally stable semi–implicit scheme for multi–dimensional Allen–Cahn equations. Numerical Methods for Partial Differential Equations, 2019, 35, 955-975.	3.6	13
39	A linearized energy–conservative finite element method for the nonlinear Schrödinger equation with wave operator. Applied Numerical Mathematics, 2019, 140, 183-198.	2.1	25
40	Corrections to "An Efficient Preconditioner for 3D Finite Difference Modeling of the Electromagnetic Diffusion Process in the Frequency Domain"[DOI: 10.1109/TGRS.2019.2937742]. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 9512-9512.	6.3	0
41	Extrapolation multiscale multigrid method for solving 2D Poisson equation with sixth order compact scheme. Journal of Applied Mathematics and Computing, 2019, 60, 589-604.	2.5	5
42	Isogeometric analysis of minimal surfaces on the basis of extended Catmull–Clark subdivision. Computer Methods in Applied Mechanics and Engineering, 2018, 337, 128-149.	6.6	12
43	An unconditionally stable linearized difference scheme for the fractional Ginzburg-Landau equation. Numerical Algorithms, 2018, 79, 899-925.	1.9	47
44	Gravity anomalies of arbitrary 3D polyhedral bodies with horizontal and vertical mass contrasts up to cubic order. Geophysics, 2018, 83, G1-G13.	2.6	42
45	Unique solvability of the CCD scheme for convection–diffusion equations with variable convection coefficients. Advances in Difference Equations, 2018, 2018, .	3.5	3
46	An extrapolation full multigrid algorithm combined with fourth-order compact scheme for convection–diffusion equations. Advances in Difference Equations, 2018, 2018, .	3.5	4
47	Exact solutions of the vertical gravitational anomaly for a polyhedral prism with vertical polynomial density contrast of arbitrary orders. Geophysical Journal International, 2018, 214, 2115-2132.	2.4	17
48	A Linearized High-Order Combined Compact Difference Scheme for Multi-Dimensional Coupled Burgers' Equations. Numerical Mathematics, 2018, 11, 299-320.	1.3	9
49	An Extrapolation Cascadic Multigrid Method Combined with a Fourth-Order Compact Scheme for 3D Poisson Equation. Journal of Scientific Computing, 2017, 70, 1180-1203.	2.3	37
50	A new extrapolation cascadic multigrid method for three dimensional elliptic boundary value problems. Journal of Computational Physics, 2017, 344, 499-515.	3.8	30
51	An unconditionally stable linearized CCD–ADI method for generalized nonlinear Schrödinger equations with variable coefficients in two and three dimensions. Computers and Mathematics With Applications, 2017, 73, 2360-2374.	2.7	27
52	On the convergence of an extrapolation cascadic multigrid method for elliptic problems. Computers and Mathematics With Applications, 2017, 74, 759-771.	2.7	18
53	Gravity Anomalies of Arbitrary 3D Polyhedral Bodies with Horizontal and Vertical Mass Contrasts. Surveys in Geophysics, 2017, 38, 479-502.	4.6	59
54	A Fifth-Order Combined Compact Difference Scheme for Stokes Flow on Polar Geometries. East Asian Journal on Applied Mathematics, 2017, 7, 714-727.	0.9	6

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55	An Extrapolation Cascadic Multigrid Method for Elliptic Problems on Reentrant Domains. Advances in Applied Mathematics and Mechanics, 2017, 9, 1347-1363.	1.2	6
56	Nanostructures imaging via numerical solution of a 3-D inverse scattering problem without the phase information. Applied Numerical Mathematics, 2016, 110, 190-203.	2.1	11
57	An energy preserving finite difference scheme for the Poisson–Nernst–Planck system. Applied Mathematics and Computation, 2016, 287-288, 214-223.	2.2	12
58	An order optimal regularization method for the Cauchy problem of a Laplace equation in an annulus domain. Applied Mathematical Modelling, 2015, 39, 3063-3074.	4.2	6
59	A linearly implicit conservative difference scheme for the generalized Rosenau–Kawahara-RLW equation. Applied Mathematics and Computation, 2015, 271, 323-336.	2.2	42
60	Time-Extrapolation Algorithm (TEA) for Linear Parabolic Problem. Journal of Computational Mathematics, 2014, 32, 183-194.	0.4	12
61	A parameter identification problem for spontaneous potential logging in heterogeneous formation. Journal of Inverse and Ill-Posed Problems, 2014, 22, 357-373.	1.0	1
62	A single exponential BKM type estimate for the 3D incompressible ideal MHD equations. Boundary Value Problems, 2014, 2014, .	0.7	1
63	Asymptotic expansions of finite element solutions to Robin problems in H 3 and their application in extrapolation cascadic multigrid method. Science China Mathematics, 2014, 57, 687-698.	1.7	9
64	2.5-D and 3-D DC resistivity modelling using an extrapolation cascadic multigrid method. Geophysical Journal International, 2014, 197, 1459-1470.	2.4	21
65	A New Approach for Solving Linear Bilevel Programming Using Differential Evolution. , 2012, , .		1
66	Global existence and asymptotic behavior of classical solutions to Goursat problem for diagonalizable quasilinear hyperbolic system. Boundary Value Problems, 2012, 2012, .	0.7	2
67	Asymptotic behavior of global classical solutions to Goursat problem of quasilinear hyperbolic systems. Journal of Mathematical Analysis and Applications, 2012, 392, 200-208.	1.0	3
68	An interpolation matched interface and boundary method for elliptic interface problems. Journal of Computational and Applied Mathematics, 2010, 234, 73-94.	2.0	18
69	The Evaluation and Application Research about Regional Innovation Capability Based on Rough Set and BP Neural Network. , 2009, , .		3
70	Mathematical model and numerical method for spontaneous potential log in heterogeneous formations. Applied Mathematics and Mechanics (English Edition), 2009, 30, 209-219.	3.6	5