

Kejia Pan

List of Publications by Year in descending order

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papers

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Gravity Anomalies of Arbitrary 3D Polyhedral Bodies with Horizontal and Vertical Mass Contrasts. <i>Surveys in Geophysics</i> , 2017, 38, 479-502.	4.6	59
2	An unconditionally stable linearized difference scheme for the fractional Ginzburg-Landau equation. <i>Numerical Algorithms</i> , 2018, 79, 899-925.	1.9	47
3	A linearly implicit conservative difference scheme for the generalized Rosenau-Kawahara-RLW equation. <i>Applied Mathematics and Computation</i> , 2015, 271, 323-336.	2.2	42
4	Gravity anomalies of arbitrary 3D polyhedral bodies with horizontal and vertical mass contrasts up to cubic order. <i>Geophysics</i> , 2018, 83, G1-G13.	2.6	42
5	An Extrapolation Cascadic Multigrid Method Combined with a Fourth-Order Compact Scheme for 3D Poisson Equation. <i>Journal of Scientific Computing</i> , 2017, 70, 1180-1203.	2.3	37
6	Linearized ADI schemes for two-dimensional space-fractional nonlinear Ginzburg-Landau equation. <i>Computers and Mathematics With Applications</i> , 2020, 80, 1201-1220.	2.7	32
7	A new extrapolation cascadic multigrid method for three dimensional elliptic boundary value problems. <i>Journal of Computational Physics</i> , 2017, 344, 499-515.	3.8	30
8	An unconditionally stable linearized CCD-ADI method for generalized nonlinear Schrödinger equations with variable coefficients in two and three dimensions. <i>Computers and Mathematics With Applications</i> , 2017, 73, 2360-2374.	2.7	27
9	A linearized energy-conservative finite element method for the nonlinear Schrödinger equation with wave operator. <i>Applied Numerical Mathematics</i> , 2019, 140, 183-198.	2.1	25
10	A spatial fourth-order maximum principle preserving operator splitting scheme for the multi-dimensional fractional Allen-Cahn equation. <i>Applied Numerical Mathematics</i> , 2020, 151, 44-63.	2.1	24
11	A Positivity Preserving and Free Energy Dissipative Difference Scheme for the Poisson-Nernst-Planck System. <i>Journal of Scientific Computing</i> , 2019, 81, 436-458.	2.3	22
12	2.5-D and 3-D DC resistivity modelling using an extrapolation cascadic multigrid method. <i>Geophysical Journal International</i> , 2014, 197, 1459-1470.	2.4	21
13	An Efficient Preconditioner for 3-D Finite Difference Modeling of the Electromagnetic Diffusion Process in the Frequency Domain. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 500-509.	6.3	21
14	An interpolation matched interface and boundary method for elliptic interface problems. <i>Journal of Computational and Applied Mathematics</i> , 2010, 234, 73-94.	2.0	18
15	On the convergence of an extrapolation cascadic multigrid method for elliptic problems. <i>Computers and Mathematics With Applications</i> , 2017, 74, 759-771.	2.7	18
16	Exact solutions of the vertical gravitational anomaly for a polyhedral prism with vertical polynomial density contrast of arbitrary orders. <i>Geophysical Journal International</i> , 2018, 214, 2115-2132.	2.4	17
17	Parallel-in-time multigrid for space-time finite element approximations of two-dimensional space-fractional diffusion equations. <i>Computers and Mathematics With Applications</i> , 2019, 78, 3471-3484.	2.7	17
18	An efficient multigrid solver based on a four-color cell-block Gauss-Seidel smoother for 3D magnetotelluric forward modeling. <i>Geophysics</i> , 2022, 87, E121-E133.	2.6	17

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19	Maximum norm error analysis of an unconditionally stable semi-implicit scheme for multi-dimensional Allen-Cahn equations. <i>Numerical Methods for Partial Differential Equations</i> , 2019, 35, 955-975.	3.6	13
20	Time-Extrapolation Algorithm (TEA) for Linear Parabolic Problem. <i>Journal of Computational Mathematics</i> , 2014, 32, 183-194.	0.4	12
21	An energy preserving finite difference scheme for the Poisson-Nernst-Planck system. <i>Applied Mathematics and Computation</i> , 2016, 287-288, 214-223.	2.2	12
22	Isogeometric analysis of minimal surfaces on the basis of extended Catmull-Clark subdivision. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 337, 128-149.	6.6	12
23	Unconditionally energy stable schemes for an electrohydrodynamic model of charge transport in dielectric liquids. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 361, 112817.	6.6	12
24	Nanostructures imaging via numerical solution of a 3-D inverse scattering problem without the phase information. <i>Applied Numerical Mathematics</i> , 2016, 110, 190-203.	2.1	11
25	Pointwise error estimates of a linearized difference scheme for strongly coupled fractional Ginzburg-Landau equations. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 512-535.	2.3	10
26	An efficient cascading multigrid solver for 3-D magnetotelluric forward modelling problems using potentials. <i>Geophysical Journal International</i> , 2022, 230, 1834-1851.	2.4	10
27	Asymptotic expansions of finite element solutions to Robin problems in H^3 and their application in extrapolation cascading multigrid method. <i>Science China Mathematics</i> , 2014, 57, 687-698.	1.7	9
28	A High Order Compact FD Framework for Elliptic BVPs Involving Singular Sources, Interfaces, and Irregular Domains. <i>Journal of Scientific Computing</i> , 2021, 88, 1.	2.3	9
29	A Linearized High-Order Combined Compact Difference Scheme for Multi-Dimensional Coupled Burgers' Equations. <i>Numerical Mathematics</i> , 2018, 11, 299-320.	1.3	9
30	The solution of the absolute value equations using two generalized accelerated overrelaxation methods. <i>Asian-European Journal of Mathematics</i> , 2022, 15, .	0.5	9
31	Efficient numerical scheme for a penalized Allen-Cahn type Ohta-Kawasaki phase-field model for diblock copolymers. <i>Journal of Computational and Applied Mathematics</i> , 2020, 378, 112905.	2.0	8
32	Energy stable finite element method for an electrohydrodynamic model with variable density. <i>Journal of Computational Physics</i> , 2021, 424, 109870.	3.8	8
33	An efficient multigrid solver for two-dimensional spatial fractional diffusion equations with variable coefficients. <i>Applied Mathematics and Computation</i> , 2021, 402, 126091.	2.2	8
34	A new FV scheme and fast cell-centered multigrid solver for 3D anisotropic diffusion equations with discontinuous coefficients. <i>Journal of Computational Physics</i> , 2022, 449, 110794.	3.8	8
35	Numerical approximations of a hydro-dynamically coupled phase-field model for binary mixture of passive/active nematic liquid crystals and viscous fluids. <i>Applied Numerical Mathematics</i> , 2020, 158, 1-21.	2.1	7
36	Two New Iteration Methods with Optimal Parameters for Solving Absolute Value Equations. <i>International Journal of Applied and Computational Mathematics</i> , 2022, 8, .	1.6	7

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37	An order optimal regularization method for the Cauchy problem of a Laplace equation in an annulus domain. <i>Applied Mathematical Modelling</i> , 2015, 39, 3063-3074.	4.2	6
38	A Fifth-Order Combined Compact Difference Scheme for Stokes Flow on Polar Geometries. <i>East Asian Journal on Applied Mathematics</i> , 2017, 7, 714-727.	0.9	6
39	An Extrapolation Cascadic Multigrid Method for Elliptic Problems on Reentrant Domains. <i>Advances in Applied Mathematics and Mechanics</i> , 2017, 9, 1347-1363.	1.2	6
40	Three-dimensional forward modelling of gravity field vector and its gradient tensor using the compact difference schemes. <i>Geophysical Journal International</i> , 2020, 224, 1272-1286.	2.4	6
41	Mathematical model and numerical method for spontaneous potential log in heterogeneous formations. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2009, 30, 209-219.	3.6	5
42	Extrapolation multiscale multigrid method for solving 2D Poisson equation with sixth order compact scheme. <i>Journal of Applied Mathematics and Computing</i> , 2019, 60, 589-604.	2.5	5
43	An extrapolation full multigrid algorithm combined with fourth-order compact scheme for convection-diffusion equations. <i>Advances in Difference Equations</i> , 2018, 2018, .	3.5	4
44	A CCD-ADI method for two-dimensional linear and nonlinear hyperbolic telegraph equations with variable coefficients. <i>International Journal of Computer Mathematics</i> , 2019, 96, 992-1004.	1.8	4
45	Nonlinear Eyring-Powell bioconvective nanofluid flow over a vertical plate with temperature dependent viscosity and surface suction. <i>International Communications in Heat and Mass Transfer</i> , 2021, 128, 105602.	5.6	4
46	Convergence Analysis of the Fully Discrete Hybridizable Discontinuous Galerkin Method for the Allen-Cahn Equation Based on the Invariant Energy Quadratization Approach. <i>Journal of Scientific Computing</i> , 2022, 91, 1.	2.3	4
47	The Evaluation and Application Research about Regional Innovation Capability Based on Rough Set and BP Neural Network. , 2009, , .		3
48	Asymptotic behavior of global classical solutions to Goursat problem of quasilinear hyperbolic systems. <i>Journal of Mathematical Analysis and Applications</i> , 2012, 392, 200-208.	1.0	3
49	Unique solvability of the CCD scheme for convection-diffusion equations with variable convection coefficients. <i>Advances in Difference Equations</i> , 2018, 2018, .	3.5	3
50	A fourth-order difference scheme for the fractional nonlinear Schrödinger equation with wave operator. <i>Applicable Analysis</i> , 2020, , 1-17.	1.3	3
51	A three-level linearized difference scheme for nonlinear Schrödinger equation with absorbing boundary conditions. <i>Applied Numerical Mathematics</i> , 2020, 156, 32-49.	2.1	3
52	Efficient energy stable scheme for volume-conserved phase-field elastic bending energy model of lipid vesicles. <i>Journal of Computational and Applied Mathematics</i> , 2021, 385, 113177.	2.0	3
53	An ADI-Yee's scheme for Maxwell's equations with discontinuous coefficients. <i>Journal of Computational Physics</i> , 2021, 438, 110356.	3.8	3
54	Global existence and asymptotic behavior of classical solutions to Goursat problem for diagonalizable quasilinear hyperbolic system. <i>Boundary Value Problems</i> , 2012, 2012, .	0.7	2

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	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
58	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
59	A New Approach for Solving Linear Bilevel Programming Using Differential Evolution. , 2012, , .		1
60	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
61	A single exponential BKM type estimate for the 3D incompressible ideal MHD equations. Boundary Value Problems, 2014, 2014, .	0.7	1
62	A spatial sixth-order CCD-TVD method for solving multidimensional coupled Burgers equation. Computational and Applied Mathematics, 2020, 39, 1.	2.2	1
63	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
64	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
65	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
66	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
67	Superconvergence of the space-time discontinuous Galerkin method for linear nonhomogeneous hyperbolic equations. Calcolo, 2021, 58, 1.	1.1	0
68	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
69	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
70	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