

Jian-Guo Liu

List of Publications by Year in descending order

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184
papers

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docs citations

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citing authors

#	ARTICLE	IF	CITATIONS
1	Existence of global weak solutions of p -Navier-Stokes equations. Discrete and Continuous Dynamical Systems - Series B, 2022, 27, 469.	0.5	1
2	From kinetic to fluid models of liquid crystals by the moment method. Kinetic and Related Models, 2022, 15, 417.	0.5	1
3	Rigorous Justification of the Fokker-Planck Equations of Neural Networks Based on an Iteration Perspective. SIAM Journal on Mathematical Analysis, 2022, 54, 1270-1312.	0.9	4
4	Convergence of the Random Batch Method for Interacting Particles with Disparate Species and Weights. SIAM Journal on Numerical Analysis, 2021, 59, 746-768.	1.1	21
5	A structure preserving numerical scheme for Fokker-Planck equations of neuron networks: Numerical analysis and exploration. Journal of Computational Physics, 2021, 433, 110195.	1.9	10
6	Intrinsic radiomic expression patterns after 20 Gy demonstrate early metabolic response of oropharyngeal cancers. Medical Physics, 2021, 48, 3767-3777.	1.6	16
7	Toward Understanding the Boundary Propagation Speeds in Tumor Growth Models. SIAM Journal on Applied Mathematics, 2021, 81, 1052-1076.	0.8	3
8	Surfactant-dependent contact line dynamics and droplet spreading on textured substrates: Derivations and computations. Physica D: Nonlinear Phenomena, 2021, 428, 133067.	1.3	3
9	Large time behavior, bi-Hamiltonian structure, and kinetic formulation for a complex Burgers equation. Quarterly of Applied Mathematics, 2021, 79, 55-102.	0.5	4
10	Analysis of a fourth-order exponential PDE arising from a crystal surface jump process with Metropolis-type transition rates. Pure and Applied Analysis, 2021, 3, 595-612.	0.4	3
11	Random Batch Methods (RBM) for interacting particle systems. Journal of Computational Physics, 2020, 400, 108877.	1.9	62
12	On the Mean-Field Limit for the Vlasov-Poisson-Fokker-Planck System. Journal of Statistical Physics, 2020, 181, 1915-1965.	0.5	14
13	A stochastic version of Stein variational gradient descent for efficient sampling. Communications in Applied Mathematics and Computational Science, 2020, 15, 37-63.	0.7	14
14	Large time behaviors of upwind schemes and B -schemes for Fokker-Planck equations on \mathbb{R}^d by jump processes. Mathematics of Computation, 2020, 89, 2283-2320.	1.1	9
15	Global existence for Nernst-Planck-Navier-Stokes system in \mathbb{R}^n . Communications in Mathematical Sciences, 2020, 18, 1743-1754.	0.5	11
16	Analysis of a continuum theory for broken bond crystal surface models with evaporation and deposition effects. Nonlinearity, 2020, 33, 3816-3845.	0.6	7
17	A class of functional inequalities and their applications to fourth-order nonlinear parabolic equations. Communications in Mathematical Sciences, 2020, 18, 1911-1948.	0.5	1
18	A Markov jump process modelling animal group size statistics. Communications in Mathematical Sciences, 2020, 18, 55-89.	0.5	0

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19	Long time behavior of dynamic solution to Peierls–Nabarro dislocation model. <i>Methods and Applications of Analysis</i> , 2020, 27, 161-198.	0.1	3
20	Uniform-in-time weak error analysis for stochastic gradient descent algorithms via diffusion approximation. <i>Communications in Mathematical Sciences</i> , 2020, 18, 163-188.	0.5	3
21	A note on parametric Bayesian inference via gradient flows. <i>Annals of Mathematical Sciences and Applications</i> , 2020, 5, 261-282.	0.2	6
22	Data clustering based on Langevin annealing with a self-consistent potential. <i>Quarterly of Applied Mathematics</i> , 2019, 77, 591-613.	0.5	11
23	An Exploratory Radiomics Approach to Quantifying Pulmonary Function in CT Images. <i>Scientific Reports</i> , 2019, 9, 11509.	1.6	30
24	Self-similar Spreading in a Merging-Splitting Model of Animal Group Size. <i>Journal of Statistical Physics</i> , 2019, 175, 1311-1330.	0.5	2
25	Well-posedness and derivative blow-up for a dispersionless regularized shallow water system. <i>Nonlinearity</i> , 2019, 32, 4346-4376.	0.6	5
26	A Discretization of Caputo Derivatives with Application to Time Fractional SDEs and Gradient Flows. <i>SIAM Journal on Numerical Analysis</i> , 2019, 57, 2095-2120.	1.1	4
27	Global stability for solutions to the exponential PDE describing epitaxial growth. <i>Interfaces and Free Boundaries</i> , 2019, 21, 61-86.	0.2	10
28	Least action principles for incompressible flows and geodesics between shapes. <i>Calculus of Variations and Partial Differential Equations</i> , 2019, 58, 1.	0.9	7
29	Green's function for anisotropic dispersive poroelastic media based on the Radon transform and eigenvector diagonalization. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20180610.	1.0	4
30	Asymmetry in crystal facet dynamics of homoepitaxy by a continuum model. <i>Physica D: Nonlinear Phenomena</i> , 2019, 393, 54-67.	1.3	9
31	Gradient flow approach to an exponential thin film equation: global existence and latent singularity. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2019, 25, 49.	0.7	12
32	On the rate of convergence of empirical measure in ∞ -Wasserstein distance for unbounded density function. <i>Quarterly of Applied Mathematics</i> , 2019, 77, 811-829.	0.5	4
33	On the mean field limit for Brownian particles with Coulomb interaction in 3D. <i>Journal of Mathematical Physics</i> , 2019, 60, .	0.5	12
34	On Local Singularities in Ideal Potential Flows with Free Surface. <i>Chinese Annals of Mathematics Series B</i> , 2019, 40, 925-948.	0.2	3
35	Learning interacting particle systems: Diffusion parameter estimation for aggregation equations. <i>Mathematical Models and Methods in Applied Sciences</i> , 2019, 29, 1-29.	1.7	9
36	Patched peakon weak solutions of the modified Camassa–Holm equation. <i>Physica D: Nonlinear Phenomena</i> , 2019, 390, 15-35.	1.3	6

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37	On the diffusion approximation of nonconvex stochastic gradient descent. <i>Annals of Mathematical Sciences and Applications</i> , 2019, 4, 3-32.	0.2	22
38	Propagation of chaos for the Keller–Segel equation with a logarithmic cut-off. <i>Methods and Applications of Analysis</i> , 2019, 26, 319-348.	0.1	4
39	Plane-wave analysis of a hyperbolic system of equations with relaxation in \mathbb{R}^d . <i>Communications in Mathematical Sciences</i> , 2019, 17, 61-79.	0.5	0
40	Cauchy problems for Keller–Segel type time–space fractional diffusion equation. <i>Journal of Differential Equations</i> , 2018, 265, 1044-1096.	1.1	67
41	Partial regularity of weak solutions to a PDE system with cubic nonlinearity. <i>Journal of Differential Equations</i> , 2018, 264, 5489-5526.	1.1	12
42	p-Euler equations and p-Navier–Stokes equations. <i>Journal of Differential Equations</i> , 2018, 264, 4707-4748.	1.1	5
43	An accurate front capturing scheme for tumor growth models with a free boundary limit. <i>Journal of Computational Physics</i> , 2018, 364, 73-94.	1.9	17
44	A note on one-dimensional time fractional ODEs. <i>Applied Mathematics Letters</i> , 2018, 83, 87-94.	1.5	4
45	Maximal monotone operator theory and its applications to thin film equation in epitaxial growth on vicinal surface. <i>Calculus of Variations and Partial Differential Equations</i> , 2018, 57, 1.	0.9	8
46	Online learning in optical tomography: a stochastic approach. <i>Inverse Problems</i> , 2018, 34, 075010.	1.0	13
47	A Dispersive Regularization for the Modified Camassa–Holm Equation. <i>SIAM Journal on Mathematical Analysis</i> , 2018, 50, 2807-2838.	0.9	7
48	Some Compactness Criteria for Weak Solutions of Time Fractional PDEs. <i>SIAM Journal on Mathematical Analysis</i> , 2018, 50, 3963-3995.	0.9	54
49	A Generalized Definition of Caputo Derivatives and Its Application to Fractional ODEs. <i>SIAM Journal on Mathematical Analysis</i> , 2018, 50, 2867-2900.	0.9	68
50	Semigroups of stochastic gradient descent and online principal component analysis: properties and diffusion approximations. <i>Communications in Mathematical Sciences</i> , 2018, 16, 777-789.	0.5	7
51	Explicit and Implicit TVD Schemes for Conservation Laws with Caputo Derivatives. <i>Journal of Scientific Computing</i> , 2017, 72, 291-313.	1.1	10
52	Global Convergence of a Sticky Particle Method for the Modified Camassa–Holm Equation. <i>SIAM Journal on Mathematical Analysis</i> , 2017, 49, 1267-1294.	0.9	8
53	Continuum Limit of a Mesoscopic Model with Elasticity of Step Motion on Vicinal Surfaces. <i>Journal of Nonlinear Science</i> , 2017, 27, 873-926.	1.0	10
54	Weak Solution of a Continuum Model For Vicinal Surface in The Attachment-Detachment-Limited Regime. <i>SIAM Journal on Mathematical Analysis</i> , 2017, 49, 1705-1731.	0.9	12

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55	A generalized Sz. Nagy inequality in higher dimensions and the critical thin film equation. <i>Nonlinearity</i> , 2017, 30, 35-60.	0.6	3
56	Global existence of solutions to a tear film model with locally elevated evaporation rates. <i>Physica D: Nonlinear Phenomena</i> , 2017, 350, 13-25.	1.3	3
57	Fractional Stochastic Differential Equations Satisfying Fluctuation-Dissipation Theorem. <i>Journal of Statistical Physics</i> , 2017, 169, 316-339.	0.5	21
58	Error estimate of a random particle blob method for the Keller-Segel equation. <i>Mathematics of Computation</i> , 2017, 86, 2719-2744.	1.1	14
59	A note on deconvolution with completely monotone sequences and discrete fractional calculus. <i>Quarterly of Applied Mathematics</i> , 2017, 76, 189-198.	0.5	8
60	Coagulation–Fragmentation Model for Animal Group-Size Statistics. <i>Journal of Nonlinear Science</i> , 2017, 27, 379-424.	1.0	25
61	Continuum dynamics of the intention field under weakly cohesive social interaction. <i>Mathematical Models and Methods in Applied Sciences</i> , 2017, 27, 159-182.	1.7	12
62	Analytical Validation of a Continuum Model for the Evolution of a Crystal Surface in Multiple Space Dimensions. <i>SIAM Journal on Mathematical Analysis</i> , 2017, 49, 2220-2245.	0.9	7
63	Positivity-preserving and asymptotic preserving method for 2D Keller-Segel equations. <i>Mathematics of Computation</i> , 2017, 87, 1165-1189.	1.1	32
64	Entropic sub-cell shock capturing schemes via Jin-Xin relaxation and Glimm front sampling for scalar conservation laws. <i>Mathematics of Computation</i> , 2017, 87, 1083-1126.	1.1	3
65	Uniform spectral convergence of the stochastic Galerkin method for the linear transport equations with random inputs in diffusive regime and a micro–macro decomposition-based asymptotic-preserving method. <i>Research in Mathematical Sciences</i> , 2017, 4, 1.	0.5	27
66	Global existence for a thin film equation with subcritical mass. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2017, 22, 1461-1492.	0.5	1
67	Continuous and discrete one dimensional autonomous fractional ODEs. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2017, 22, 17-17.	0.5	4
68	Mean-field games and model predictive control. <i>Communications in Mathematical Sciences</i> , 2017, 15, 1403-1422.	0.5	17
69	Discrete-in-time random particle blob method for the Keller–Segel equation and convergence analysis. <i>Communications in Mathematical Sciences</i> , 2017, 15, 1821-1842.	0.5	6
70	Uniform L^∞ boundedness for a degenerate parabolic-parabolic Keller-Segel model. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2017, 22, 307-338.	0.5	1
71	On a Schrödinger–Landau–Lifshitz System: Variational Structure and Numerical Methods. <i>Multiscale Modeling and Simulation</i> , 2016, 14, 1463-1487.	0.6	8
72	A random particle blob method for the Keller-Segel equation and convergence analysis. <i>Mathematics of Computation</i> , 2016, 86, 725-745.	1.1	17

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73	A note on Monge–Keller–Segel equation. Applied Mathematics Letters, 2016, 61, 26-34.	1.5	1
74	Existence Theorems for a Multidimensional Crystal Surface Model. SIAM Journal on Mathematical Analysis, 2016, 48, 3667-3687.	0.9	15
75	On generating functions of Hausdorff moment sequences. Transactions of the American Mathematical Society, 2016, 368, 8499-8518.	0.5	16
76	Propagation of chaos for large Brownian particle system with Coulomb interaction. Research in Mathematical Sciences, 2016, 3, 1.	0.5	14
77	A Note on L^∞ -Bound and Uniqueness to a Degenerate Keller-Segel Model. Acta Applicandae Mathematicae, 2016, 142, 173-188.	0.5	14
78	Refined hyper-contractivity and uniqueness for the Keller–Segel equations. Applied Mathematics Letters, 2016, 52, 212-219.	1.5	9
79	A degenerate p -Laplacian Keller-Segel model. Kinetic and Related Models, 2016, 9, 687-714.	0.5	18
80	Well-posedness for the Keller-Segel equation with fractional Laplacian and the theory of propagation of chaos. Kinetic and Related Models, 2016, 9, 715-748.	0.5	26
81	Convergence of Diffusion-Drift Many Particle Systems in Probability Under a Sobolev Norm. Springer Proceedings in Mathematics and Statistics, 2016, , 195-223.	0.1	1
82	Convergence of stochastic interacting particle systems in probability under a Sobolev norm. Annals of Mathematical Sciences and Applications, 2016, 1, 251-299.	0.2	0
83	Error estimates of the aggregation-diffusion splitting algorithms for the Keller-Segel equations. Discrete and Continuous Dynamical Systems - Series B, 2016, 21, 3463-3478.	0.5	0
84	Phase Transitions, Hysteresis, and Hyperbolicity for Self-Organized Alignment Dynamics. Archive for Rational Mechanics and Analysis, 2015, 216, 63-115.	1.1	55
85	Emergence of step flow from an atomistic scheme of epitaxial growth in $\langle \mathbf{m} \rangle$. Physical Review E, 2015, 91, 032403.	0.8	1
86	Simple Finite Element Numerical Simulation of Incompressible Flow Over Non-rectangular Domains and the Super-Convergence Analysis. Journal of Scientific Computing, 2015, 65, 1189-1216.	1.1	3
87	An Exact Solution for Stokes Flow in a Channel with Arbitrarily Large Wall Permeability. SIAM Journal on Applied Mathematics, 2015, 75, 2246-2267.	0.8	5
88	Elastic collisions among peakon solutions for the Camassa–Holm equation. Applied Numerical Mathematics, 2015, 93, 30-46.	1.2	15
89	Well-Posedness and Singular Limit of a Semilinear Hyperbolic Relaxation System with a Two-Scale Discontinuous Relaxation Rate. Archive for Rational Mechanics and Analysis, 2014, 214, 1051-1084.	1.1	9
90	Convergence analysis of the vortex blob method for the β -equation. Discrete and Continuous Dynamical Systems, 2014, 34, 1995-2011.	0.5	3

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91	A Local Pressure Boundary Condition Spectral Collocation Scheme for the Three-Dimensional Navier-Stokes Equations. <i>Journal of Scientific Computing</i> , 2014, 60, 612-626.	1.1	9
92	A Note on Aubin-Lions-DubinskiĀ-Lemmas. <i>Acta Applicandae Mathematicae</i> , 2014, 133, 33-43.	0.5	50
93	Evolution of the Distribution of Wealth in an Economic Environment Driven by Local Nash Equilibria. <i>Journal of Statistical Physics</i> , 2014, 154, 751-780.	0.5	35
94	Large-Scale Dynamics of Mean-Field Games Driven by Local Nash Equilibria. <i>Journal of Nonlinear Science</i> , 2014, 24, 93-115.	1.0	36
95	Flow on Sweeping Networks. <i>Multiscale Modeling and Simulation</i> , 2014, 12, 538-565.	0.6	5
96	Evolution of wealth in a non-conservative economy driven by local Nash equilibria. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130394.	1.6	22
97	Well-posedness for Hall-magnetohydrodynamics. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2014, 31, 555-565.	0.7	174
98	AsymptoticĀpreserving schemes for kineticĀfluid modeling of disperse twoĀphase flows with variable fluid density. <i>International Journal for Numerical Methods in Fluids</i> , 2014, 75, 81-102.	0.9	6
99	Ultra-contractivity for Keller-Segel model with diffusion exponent $m \geq 1-2/d$. <i>Kinetic and Related Models</i> , 2014, 7, 9-28.	0.5	18
100	Existence and uniqueness of global weak solution to a kinetic model for the sedimentation of rod-like particles. <i>Communications in Mathematical Sciences</i> , 2014, 12, 1579-1601.	0.5	2
101	Macroscopic Limits and Phase Transition in a System of Self-propelled Particles. <i>Journal of Nonlinear Science</i> , 2013, 23, 427-456.	1.0	66
102	Asymptotic-preserving schemes for kinetic-fluid modeling of disperse two-phase flows. <i>Journal of Computational Physics</i> , 2013, 246, 145-164.	1.9	12
103	Dynamic and Steady States for Multi-Dimensional Keller-Segel Model with Diffusion Exponent $m \geq 0$. <i>Communications in Mathematical Physics</i> , 2013, 323, 1017-1070.	1.0	61
104	Global weak entropy solution to DoiĀSaintillanĀShelley model for active and passive rod-like and ellipsoidal particle suspensions. <i>Journal of Differential Equations</i> , 2013, 254, 2764-2802.	1.1	17
105	A Generalized MAC Scheme on Curvilinear Domains. <i>SIAM Journal of Scientific Computing</i> , 2013, 35, B953-B986.	1.3	8
106	Analysis of Polymeric Flow Models and Related Compactness Theorems in Weighted Spaces. <i>SIAM Journal on Mathematical Analysis</i> , 2013, 45, 1179-1215.	0.9	3
107	Hydrodynamic models of self-organized dynamics: Derivation and existence theory. <i>Methods and Applications of Analysis</i> , 2013, 20, 89-114.	0.1	49
108	HYDRODYNAMICS OF SELF-ALIGNMENT INTERACTIONS WITH PRECESSION AND DERIVATION OF THE LANDAUĀLIFSCHITZĀGILBERT EQUATION. <i>Mathematical Models and Methods in Applied Sciences</i> , 2012, 22, 1140001.	1.7	20

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109	An All-Speed Asymptotic-Preserving Method for the Isentropic Euler and Navier-Stokes Equations. Communications in Computational Physics, 2012, 12, 955-980.	0.7	90
110	Convergence Analysis of the Particle Method for the Camassa-Holm Equation. Series in Contemporary Applied Mathematics, 2012, , 365-373.	0.8	1
111	Dynamics in a Kinetic Model of Oriented Particles with Phase Transition. SIAM Journal on Mathematical Analysis, 2012, 44, 791-826.	0.9	49
112	Multidimensional Degenerate Keller-Segel System with Critical Diffusion Exponent $2n/(n+2)$. SIAM Journal on Mathematical Analysis, 2012, 44, 1077-1102.	0.9	33
113	Convergence of a Particle Method and Global Weak Solutions of a Family of Evolutionary PDEs. SIAM Journal on Numerical Analysis, 2012, 50, 1-21.	1.1	30
114	Blow-up, Zero $\hat{\nu}$ Limit and the Liouville Type Theorem for the Euler-Poincaré Equations. Communications in Mathematical Physics, 2012, 314, 671-687.	1.0	15
115	Two nonlinear compactness theorems in L^p . Applied Mathematics Letters, 2012, 25, 2252-2257.	1.5	10
116	A Note on the Subcritical Two Dimensional Keller-Segel System. Acta Applicandae Mathematicae, 2012, 119, 43-55.	0.5	6
117	A domain decomposition method for semilinear hyperbolic systems with two-scale relaxations. Mathematics of Computation, 2012, 82, 749-779.	1.1	7
118	An FFT Based Fast Poisson Solver on Spherical Shells. Communications in Computational Physics, 2011, 9, 649-667.	0.7	3
119	A coupled chemotaxis-fluid model: Global existence. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2011, 28, 643-652.	0.7	206
120	Kinetic formulation and global existence for the Hall-Magneto-hydrodynamics system. Kinetic and Related Models, 2011, 4, 901-918.	0.5	173
121	Stable and accurate pressure approximation for unsteady incompressible viscous flow. Journal of Computational Physics, 2010, 229, 3428-3453.	1.9	51
122	Analysis of an Asymptotic Preserving Scheme for Linear Kinetic Equations in the Diffusion Limit. SIAM Journal on Numerical Analysis, 2010, 48, 1474-1491.	1.1	41
123	Stable discretization of magnetohydrodynamics in bounded domains. Communications in Mathematical Sciences, 2010, 8, 235-251.	0.5	27
124	Error estimates for finite-element Navier-Stokes solvers without standard Inf-Sup conditions. Chinese Annals of Mathematics Series B, 2009, 30, 743-768.	0.2	14
125	Characterization and Regularity for Axisymmetric Solenoidal Vector Fields with Application to Navier-Stokes Equation. SIAM Journal on Mathematical Analysis, 2009, 41, 1825-1850.	0.9	39
126	A simple proof of the Cucker-Smale flocking dynamics and mean-field limit. Communications in Mathematical Sciences, 2009, 7, 297-325.	0.5	397

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127	Long Time Numerical Solution of the Navier–Stokes Equations Based on a Sequential Regularization Formulation. <i>SIAM Journal of Scientific Computing</i> , 2008, 31, 398-419.	1.3	5
128	Analysis of an Asymptotic Preserving Scheme for the Euler–Poisson System in the Quasineutral Limit. <i>SIAM Journal on Numerical Analysis</i> , 2008, 46, 1298-1322.	1.1	33
129	Analysis of a sequential regularization method for the unsteady Navier-Stokes equations. <i>Mathematics of Computation</i> , 2008, 77, 1467-1494.	1.1	12
130	Effects of Solid-State Yeast Treatment on the Antioxidant Properties and Protein and Fiber Compositions of Common Hard Wheat Bran. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 10173-10182.	2.4	83
131	Stability and convergence of efficient Navier-Stokes solvers via a commutator estimate. <i>Communications on Pure and Applied Mathematics</i> , 2007, 60, 1443-1487.	1.2	57
132	Basic Themes and Pretty Problems of Nonlinear Solid Mechanics. <i>Milan Journal of Mathematics</i> , 2007, 75, 135-176.	0.7	1
133	Macroscopic Fluid Models with Localized Kinetic Upscaling Effects. <i>Multiscale Modeling and Simulation</i> , 2006, 5, 940-979.	0.6	46
134	Convergence Analysis of the Energy and Helicity Preserving Scheme for Axisymmetric Flows. <i>SIAM Journal on Numerical Analysis</i> , 2006, 44, 2456-2480.	1.1	23
135	Effects of Genotype and Environment on the Antioxidant Properties of Hard Winter Wheat Bran. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 5313-5322.	2.4	108
136	Global weak solution of planetary geostrophic equations with inviscid geostrophic balance. <i>Applicable Analysis</i> , 2006, 85, 593-605.	0.6	1
137	High order finite difference methods for unsteady incompressible flows in multi-connected domains. <i>Computers and Fluids</i> , 2004, 33, 223-255.	1.3	10
138	Boundary-layer separation and adverse pressure gradient for 2-D viscous incompressible flow. <i>Physica D: Nonlinear Phenomena</i> , 2004, 197, 149-173.	1.3	30
139	Epitaxial Growth Without Slope Selection: Energetics, Coarsening, and Dynamic Scaling. <i>Journal of Nonlinear Science</i> , 2004, 14, 429-451.	1.0	47
140	Analysis of a fourth order finite difference method for the incompressible Boussinesq equations. <i>Numerische Mathematik</i> , 2004, 97, 555-594.	0.9	37
141	Accurate, stable and efficient Navier–Stokes solvers based on explicit treatment of the pressure term. <i>Journal of Computational Physics</i> , 2004, 199, 221-259.	1.9	156
142	Energy and helicity preserving schemes for hydro- and magnetohydro-dynamics flows with symmetry. <i>Journal of Computational Physics</i> , 2004, 200, 8-33.	1.9	40
143	Effects of small viscosity and far field boundary conditions for hyperbolic systems. <i>Communications on Pure and Applied Analysis</i> , 2004, 3, 267-290.	0.4	1
144	Accurate, stable and efficient Navier–Stokes solvers based on explicit treatment of the pressure term. <i>Journal of Computational Physics</i> , 2004, 199, 221-221.	1.9	3

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145	Far field boundary condition for convection diffusion equation at zero viscosity limit. Quarterly of Applied Mathematics, 2004, 62, 27-52.	0.5	1
146	Concepts and Application of Time-Limiters to High Resolution Schemes. Journal of Scientific Computing, 2003, 19, 139-162.	1.1	17
147	A Fourth Order Scheme for Incompressible Boussinesq Equations. Journal of Scientific Computing, 2003, 18, 253-285.	1.1	62
148	Thin film epitaxy with or without slope selection. European Journal of Applied Mathematics, 2003, 14, 713-743.	1.4	100
149	Finite volume scheme for multi-dimensional drift-diffusion equations and convergence analysis. ESAIM: Mathematical Modelling and Numerical Analysis, 2003, 37, 319-338.	0.8	63
150	Positivity property of second-order flux-splitting schemes for the compressible Euler equations. Discrete and Continuous Dynamical Systems - Series B, 2003, 3, 201-228.	0.5	21
151	Gauge Method for Viscous Incompressible Flows. Communications in Mathematical Sciences, 2003, 1, 317-332.	0.5	90
152	Finite Difference Schemes for Incompressible Flow Based on Local Pressure Boundary Conditions. Journal of Computational Physics, 2002, 180, 120-154.	1.9	75
153	Analysis of finite difference schemes for unsteady Navier-Stokes equations in vorticity formulation. Numerische Mathematik, 2002, 91, 543-576.	0.9	37
154	An Energy-Preserving MAC-Yee Scheme for the Incompressible MHD Equation. Journal of Computational Physics, 2001, 174, 12-37.	1.9	24
155	Projection method III: Spatial discretization on the staggered grid. Mathematics of Computation, 2001, 71, 27-48.	1.1	15
156	Simple finite element method in vorticity formulation for incompressible flows. Mathematics of Computation, 2000, 70, 579-594.	1.1	13
157	Convergence of gauge method for incompressible flow. Mathematics of Computation, 2000, 69, 1385-1408.	1.1	49
158	Convergence of a Galerkin method for 2-D discontinuous Euler flows. Communications on Pure and Applied Mathematics, 2000, 53, 786-798.	1.2	8
159	Gauge finite element method for incompressible flows. International Journal for Numerical Methods in Fluids, 2000, 34, 701-710.	0.9	10
160	A High-Order Discontinuous Galerkin Method for 2D Incompressible Flows. Journal of Computational Physics, 2000, 160, 577-596.	1.9	111
161	Convergence of the point vortex method for 2-D vortex sheet. Mathematics of Computation, 2000, 70, 595-607.	1.1	21
162	A Numerical Example on the Performance of High Order Discontinuous Galerkin Method for 2D Incompressible Flows. Lecture Notes in Computational Science and Engineering, 2000, , 369-374.	0.1	2

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163	Connection between corner vortices and shear layer instability in flow past an ellipse. <i>Physics of Fluids</i> , 1999, 11, 2446-2448.	1.6	7
164	Generalized monotone schemes, discrete paths of extrema, and discrete entropy conditions. <i>Mathematics of Computation</i> , 1999, 68, 1025-1056.	1.1	19
165	The Reconstruction of Upwind Fluxes for Conservation Laws: Its Behavior in Dynamic and Steady State Calculations. <i>Journal of Computational Physics</i> , 1998, 144, 237-256.	1.9	25
166	Convergence of difference schemes with high resolution for conservation laws. <i>Mathematics of Computation</i> , 1997, 66, 1027-1054.	1.1	9
167	Finite Difference Schemes for Incompressible Flows in the Velocity-impulse Density Formulation. <i>Journal of Computational Physics</i> , 1997, 130, 67-76.	1.9	32
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