

Xiaofeng Yang

List of Publications by Year in descending order

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130
papers

5,757
citations

66343

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131
times ranked

1201
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Fully Discrete Spectral-Galerkin Scheme for the Volume-Conserved Multi-Vesicular Phase-Field Model of Lipid Vesicles with Adhesion Potential. <i>Communications in Mathematics and Statistics</i> , 2024, 12, 15-43.	1.5	1
2	Efficient Fully decoupled and second-order time-accurate scheme for the Navier–Stokes coupled Cahn–Hilliard Ohta–Kawaski Phase-Field model of Diblock copolymer melt. <i>Journal of Computational and Applied Mathematics</i> , 2022, 403, 113843.	2.0	4
3	A fully decoupled linearized finite element method with second-order temporal accuracy and unconditional energy stability for incompressible MHD equations. <i>Journal of Computational Physics</i> , 2022, 448, 110752.	3.8	33
4	A fully-discrete decoupled finite element method for the conserved Allen–Cahn type phase-field model of three-phase fluid flow system. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 389, 114376.	6.6	27
5	A New Conservative Allen-Cahn Type Ohta-Kawaski Phase-Field Model for Diblock Copolymers and Its Numerical Approximations. <i>Advances in Applied Mathematics and Mechanics</i> , 2022, 14, 101-124.	1.2	7
6	A novel fully-decoupled, linear, and unconditionally energy-stable scheme of the conserved Allen–Cahn phase-field model of a two-phase incompressible flow system with variable density and viscosity. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022, 107, 106120.	3.3	9
7	Efficient decoupled second-order numerical scheme for the flow-coupled Cahn–Hilliard phase-field model of two-phase flows. <i>Journal of Computational and Applied Mathematics</i> , 2022, 405, 113875.	2.0	10
8	Fully-discrete, decoupled, second-order time-accurate and energy stable finite element numerical scheme of the Cahn-Hilliard binary surfactant model confined in the Hele-Shaw cell. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2022, 56, 651-678.	1.9	6
9	Fully-discrete Spectral-Galerkin scheme with second-order time-accuracy and unconditionally energy stability for the volume-conserved phase-field lipid vesicle model. <i>Journal of Computational and Applied Mathematics</i> , 2022, 406, 113988.	2.0	3
10	Efficient Fully Discrete Finite-Element Numerical Scheme with Second-Order Temporal Accuracy for the Phase-Field Crystal Model. <i>Mathematics</i> , 2022, 10, 155.	2.2	1
11	A second-order time accurate and fully-decoupled numerical scheme of the Darcy-Newtonian-Nematic model for two-phase complex fluids confined in the Hele-Shaw cell. <i>Journal of Computational Physics</i> , 2022, 456, 111026.	3.8	14
12	Highly efficient and unconditionally energy stable semi-discrete time-marching numerical scheme for the two-phase incompressible flow phase-field system with variable-density and viscosity. <i>Science China Mathematics</i> , 2022, 65, 2631-2656.	1.7	4
13	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
14	A novel second-order time accurate fully discrete finite element scheme with decoupling structure for the hydrodynamically-coupled phase field crystal model. <i>Computers and Mathematics With Applications</i> , 2022, 113, 70-85.	2.7	2
15	Fully-decoupled, energy stable second-order time-accurate and finite element numerical scheme of the binary immiscible Nematic-Newtonian model. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 395, 114963.	6.6	6
16	Efficient, linear and fast numerical algorithm for the volume conserved nonlocal Allen-Cahn equation. <i>Applied Numerical Mathematics</i> , 2022, 181, 204-224.	2.1	1
17	Numerical approximations of flow coupled binary phase field crystal system: Fully discrete finite element scheme with second-order temporal accuracy and decoupling structure. <i>Journal of Computational Physics</i> , 2022, 467, 111448.	3.8	4
18	A novel fully decoupled scheme with second-order time accuracy and unconditional energy stability for the Navier–Stokes equations coupled with mass-conserved Allen–Cahn phase-field model of two-phase incompressible flow. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 1283.	2.8	15

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19	Efficient, non-iterative, and decoupled numerical scheme for a new modified binary phase-field surfactant system. <i>Numerical Algorithms</i> , 2021, 86, 863-885.	1.9	7
20	Highly efficient and linear numerical schemes with unconditional energy stability for the anisotropic phase-field crystal model. <i>Journal of Computational and Applied Mathematics</i> , 2021, 383, 113122.	2.0	3
21	Efficient linear, decoupled, and unconditionally stable scheme for a ternary Cahn-Hilliard type Nakazawa-Ohta phase-field model for tri-block copolymers. <i>Applied Mathematics and Computation</i> , 2021, 388, 125463.	2.2	5
22	A novel fully-decoupled, second-order and energy stable numerical scheme of the conserved Allen-Cahn type flow-coupled binary surfactant model. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 373, 113502.	6.6	54
23	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
24	On a Novel Fully Decoupled, Second-Order Accurate Energy Stable Numerical Scheme for a Binary Fluid-Surfactant Phase-Field Model. <i>SIAM Journal of Scientific Computing</i> , 2021, 43, B479-B507.	2.8	38
25	Efficient numerical scheme for the anisotropic modified phase-field crystal model with a strong nonlinear vacancy potential. <i>Communications in Mathematical Sciences</i> , 2021, 19, 355-381.	1.0	5
26	Numerical approximations of the Navier-Stokes equation coupled with volume-conserved multi-phase-field vesicles system: Fully-decoupled, linear, unconditionally energy stable and second-order time-accurate numerical scheme. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 375, 113600.	6.6	43
27	A novel decoupled second-order time marching scheme for the two-phase incompressible Navier-Stokes/Darcy coupled nonlocal Allen-Cahn model. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 377, 113597.	6.6	24
28	Second-order accurate and energy stable numerical scheme for an immiscible binary mixture of nematic liquid crystals and viscous fluids with strong anchoring potentials. <i>Advances in Computational Mathematics</i> , 2021, 47, 1.	1.6	1
29	On a novel full decoupling, linear, second-order accurate, and unconditionally energy stable numerical scheme for the anisotropic phase-field dendritic crystal growth model. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 4129-4153.	2.8	18
30	Efficient, second-order in time, and energy stable scheme for a new hydrodynamically coupled three components volume-conserved Allen-Cahn phase-field model. <i>Mathematical Models and Methods in Applied Sciences</i> , 2021, 31, 753-787.	3.3	8
31	A new efficient fully-decoupled and second-order time-accurate scheme for Cahn-Hilliard phase-field model of three-phase incompressible flow. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 376, 113589.	6.6	38
32	A novel fully-decoupled, second-order time-accurate, unconditionally energy stable scheme for a flow-coupled volume-conserved phase-field elastic bending energy model. <i>Journal of Computational Physics</i> , 2021, 432, 110015.	3.8	32
33	On a novel fully-decoupled, linear and second-order accurate numerical scheme for the Cahn-Hilliard-Darcy system of two-phase Hele-Shaw flow. <i>Computer Physics Communications</i> , 2021, 263, 107868.	7.5	16
34	Efficient and Stable Schemes for the Magnetohydrodynamic Potential Model. <i>Communications in Computational Physics</i> , 2021, 30, 771-798.	1.7	0
35	Highly efficient and stable numerical algorithm for a two-component phase-field crystal model for binary alloys. <i>Journal of Computational and Applied Mathematics</i> , 2021, 390, 113371.	2.0	4
36	Subdivision-based isogeometric analysis for second order partial differential equations on surfaces. <i>Computational Mechanics</i> , 2021, 68, 1205-1221.	4.0	15

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37	Efficient and energy stable scheme for the hydrodynamically coupled three components Cahn-Hilliard phase-field model using the stabilized-Invariant Energy Quadratzation (S-IEQ) Approach. Journal of Computational Physics, 2021, 438, 110342.	3.8	13
38	Fully-discrete finite element numerical scheme with decoupling structure and energy stability for the Cahn-Hilliard phase-field model of two-phase incompressible flow system with variable density and viscosity. ESAIM: Mathematical Modelling and Numerical Analysis, 2021, 55, 2323-2347.	1.9	19
39	Fully-discrete spectral-Galerkin scheme with decoupled structure and second-order time accuracy for the anisotropic phase-field dendritic crystal growth model. International Journal of Heat and Mass Transfer, 2021, 180, 121750.	4.8	13
40	Decoupled, Linear, and Unconditionally Energy Stable Fully Discrete Finite Element Numerical Scheme for a Two-Phase Ferrohydrodynamics Model. SIAM Journal of Scientific Computing, 2021, 43, B167-B193.	2.8	17
41	Efficient, non-iterative, and second-order accurate numerical algorithms for the anisotropic Allen-Cahn Equation with precise nonlocal mass conservation. Journal of Computational and Applied Mathematics, 2020, 363, 444-463.	2.0	20
42	Efficient, second order accurate, and unconditionally energy stable numerical scheme for a new hydrodynamics coupled binary phase-field surfactant system. Computer Physics Communications, 2020, 251, 107122.	7.5	17
43	Decoupled, non-iterative, and unconditionally energy stable large time stepping method for the three-phase Cahn-Hilliard phase-field model. Journal of Computational Physics, 2020, 404, 109115.	3.8	32
44	Fully decoupled, linear and unconditionally energy stable time discretization scheme for solving the magneto-hydrodynamic equations. Journal of Computational and Applied Mathematics, 2020, 369, 112636.	2.0	28
45	Unconditionally energy stable large time stepping method for the Cahn-Hilliard phase-field model with precise nonlocal volume conservation. Computer Methods in Applied Mechanics and Engineering, 2020, 363, 112741.	6.6	37
46	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
47	Efficient and accurate numerical scheme for a magnetic-coupled phase-field-crystal model for ferromagnetic solid materials. Computer Methods in Applied Mechanics and Engineering, 2020, 371, 113310.	6.6	13
48	Non-iterative, unconditionally energy stable and large time-stepping method for the Cahn-Hilliard phase-field model with Flory-Huggins-de Gennes free energy. Advances in Computational Mathematics, 2020, 46, 1.	1.6	1
49	Efficient numerical scheme for a new hydrodynamically-coupled conserved Allen-Cahn type Ohta-Kawasaki phase-field model for diblock copolymer melt. Computer Physics Communications, 2020, 256, 107418.	7.5	13
50	Error Analysis of a Decoupled, Linear Stabilization Scheme for the Cahn-Hilliard Model of Two-Phase Incompressible Flows. Journal of Scientific Computing, 2020, 83, 1.	2.3	7
51	Deformation and coalescence of ferrodroplets in Rosensweig model using the phase field and modified level set approaches under uniform magnetic fields. Communications in Nonlinear Science and Numerical Simulation, 2020, 85, 105213.	3.3	10
52	Convergence Analysis for the Invariant Energy Quadratzation (IEQ) Schemes for Solving the Cahn-Hilliard and Allen-Cahn Equations with General Nonlinear Potential. Journal of Scientific Computing, 2020, 82, 1.	2.3	49
53	A fully decoupled, linear and unconditionally energy stable numerical scheme for a melt-convective phase-field dendritic solidification model. Computer Methods in Applied Mechanics and Engineering, 2020, 363, 112779.	6.6	19
54	Efficient and energy stable method for the Cahn-Hilliard phase-field model for diblock copolymers. Applied Numerical Mathematics, 2020, 151, 263-281.	2.1	9

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55	A new magnetic-coupled Cahn-Hilliard phase-field model for diblock copolymers and its numerical approximations. Applied Mathematics Letters, 2020, 107, 106412.	2.7	6
56	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
57	A second order accuracy in time, Fourier pseudo-spectral numerical scheme for "Good" Boussinesq equation. Discrete and Continuous Dynamical Systems - Series B, 2020, 25, 3749-3768.	0.9	1
58	A diffuse interface model and semi-implicit energy stable finite element method for two-phase magnetohydrodynamic flows. Computer Methods in Applied Mechanics and Engineering, 2019, 356, 435-464.	6.6	36
59	Efficient second order unconditionally stable time marching numerical scheme for a modified phase-field crystal model with a strong nonlinear vacancy potential. Computer Physics Communications, 2019, 245, 106860.	7.5	13
60	On efficient numerical schemes for a two-mode phase field crystal model with face-centered-cubic (FCC) ordering structure. Applied Numerical Mathematics, 2019, 146, 13-37.	2.1	20
61	A Decoupled, Linear and Unconditionally Energy Stable Scheme with Finite Element Discretizations for Magneto-Hydrodynamic Equations. Journal of Scientific Computing, 2019, 81, 1678-1711.	2.3	27
62	Numerical approximations for a new L^2 flow based Phase field crystal model with precise nonlocal mass conservation. Computer Physics Communications, 2019, 243, 51-67.	7.5	41
63	A novel decoupled and stable scheme for an anisotropic phase-field dendritic crystal growth model. Applied Mathematics Letters, 2019, 95, 122-129.	2.7	45
64	Fast, provably unconditionally energy stable, and second-order accurate algorithms for the anisotropic Cahn-Hilliard Model. Computer Methods in Applied Mechanics and Engineering, 2019, 351, 35-59.	6.6	84
65	Efficient numerical scheme for a dendritic solidification phase field model with melt convection. Journal of Computational Physics, 2019, 388, 41-62.	3.8	91
66	Efficient numerical schemes with unconditional energy stabilities for the modified phase field crystal equation. Advances in Computational Mathematics, 2019, 45, 1551-1580.	1.6	40
67	Efficient linear schemes for the nonlocal Cahn-Hilliard equation of phase field models. Computer Physics Communications, 2019, 235, 234-245.	7.5	24
68	Convergence analysis of an unconditionally energy stable projection scheme for magneto-hydrodynamic equations. Applied Numerical Mathematics, 2019, 136, 235-256.	2.1	32
69	Efficient linear, stabilized, second-order time marching schemes for an anisotropic phase field dendritic crystal growth model. Computer Methods in Applied Mechanics and Engineering, 2019, 347, 316-339.	6.6	48
70	Efficient and linear schemes for anisotropic Cahn-Hilliard model using the Stabilized-Invariant Energy Quadraticization (S-IEQ) approach. Computer Physics Communications, 2019, 238, 36-49.	7.5	40
71	Highly Efficient and Accurate Numerical Schemes for the Epitaxial Thin Film Growth Models by Using the SAV Approach. Journal of Scientific Computing, 2019, 78, 1467-1487.	2.3	51
72	On Linear and Unconditionally Energy Stable Algorithms for Variable Mobility Cahn-Hilliard Type Equation with Logarithmic Flory-Huggins Potential. Communications in Computational Physics, 2019, 25, .	1.7	32

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73	Numerical approximations for the hydrodynamics coupled binary surfactant phase field model: Second-order, linear, unconditionally energy-stable schemes. Communications in Mathematical Sciences, 2019, 17, 835-858.	1.0	21
74	Regularized linear schemes for the molecular beam epitaxy model with slope selection. Applied Numerical Mathematics, 2018, 128, 139-156.	2.1	51
75	Decoupled, Linear, and Energy Stable Finite Element Method for the Cahn–Hilliard–Navier–Stokes–Darcy Phase Field Model. SIAM Journal of Scientific Computing, 2018, 40, B110-B137.	2.8	70
76	Numerical Approximations for the Cahn–Hilliard Phase Field Model of the Binary Fluid-Surfactant System. Journal of Scientific Computing, 2018, 74, 1533-1553.	2.3	47
77	Efficient Second Order Unconditionally Stable Schemes for a Phase Field Moving Contact Line Model Using an Invariant Energy Quadratization Approach. SIAM Journal of Scientific Computing, 2018, 40, B889-B914.	2.8	66
78	Modeling and an immersed finite element method for an interface wave equation. Computers and Mathematics With Applications, 2018, 76, 1625-1638.	2.7	22
79	Linear, second order and unconditionally energy stable schemes for the viscous Cahn–Hilliard equation with hyperbolic relaxation using the invariant energy quadratization method. Journal of Computational and Applied Mathematics, 2018, 343, 80-97.	2.0	68
80	Numerical approximations for a smectic-A liquid crystal flow model: First-order, linear, decoupled and energy stable schemes. Discrete and Continuous Dynamical Systems - Series B, 2018, 23, 2177-2192.	0.9	7
81	Decoupled, Energy Stable Scheme for Hydrodynamic Allen-Cahn Phase Field Moving Contact Line Model. Journal of Computational Mathematics, 2018, 36, 661-681.	0.4	7
82	Numerical approximations for the molecular beam epitaxial growth model based on the invariant energy quadratization method. Journal of Computational Physics, 2017, 333, 104-127.	3.8	198
83	Efficient linear schemes with unconditional energy stability for the phase field elastic bending energy model. Computer Methods in Applied Mechanics and Engineering, 2017, 315, 691-712.	6.6	133
84	Numerical Approximations for Allen-Cahn Type Phase Field Model of Two-Phase Incompressible Fluids with Moving Contact Lines. Communications in Computational Physics, 2017, 21, 867-889.	1.7	44
85	Three dimensional phase-field investigation of droplet formation in microfluidic flow focusing devices with experimental validation. International Journal of Multiphase Flow, 2017, 93, 130-141.	3.4	88
86	A novel linear second order unconditionally energy stable scheme for a hydrodynamic Q -tensor model of liquid crystals. Computer Methods in Applied Mechanics and Engineering, 2017, 318, 803-825.	6.6	95
87	Linear and unconditionally energy stable schemes for the binary fluid–surfactant phase field model. Computer Methods in Applied Mechanics and Engineering, 2017, 318, 1005-1029.	6.6	101
88	Numerical approximations for a phase-field moving contact line model with variable densities and viscosities. Journal of Computational Physics, 2017, 334, 665-686.	3.8	59
89	Efficient and accurate numerical schemes for a hydro-dynamically coupled phase field diblock copolymer model. Journal of Computational Physics, 2017, 341, 44-60.	3.8	50
90	Numerical approximations for a three-component Cahn–Hilliard phase-field model based on the invariant energy quadratization method. Mathematical Models and Methods in Applied Sciences, 2017, 27, 1993-2030.	3.3	134

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91	Second Order, Linear, and Unconditionally Energy Stable Schemes for a Hydrodynamic Model of Smectic-A Liquid Crystals. <i>SIAM Journal of Scientific Computing</i> , 2017, 39, A2808-A2833.	2.8	19
92	Linearly first- and second-order, unconditionally energy stable schemes for the phase field crystal model. <i>Journal of Computational Physics</i> , 2017, 330, 1116-1134.	3.8	118
93	Numerical approximations for a phase field dendritic crystal growth model based on the invariant energy quadratization approach. <i>International Journal for Numerical Methods in Engineering</i> , 2017, 110, 279-300.	2.8	129
94	Numerical Analysis of Second Order, Fully Discrete Energy Stable Schemes for Phase Field Models of Two-Phase Incompressible Flows. <i>Journal of Scientific Computing</i> , 2017, 70, 965-989.	2.3	63
95	Decoupled Energy Stable Schemes for a Phase Field Model of Three-Phase Incompressible Viscous Fluid Flow. <i>Journal of Scientific Computing</i> , 2017, 70, 1367-1389.	2.3	34
96	Modeling the Excess Cell Surface Stored in a Complex Morphology of Bleb-Like Protrusions. <i>PLoS Computational Biology</i> , 2016, 12, e1004841.	3.2	23
97	Linear, first and second-order, unconditionally energy stable numerical schemes for the phase field model of homopolymer blends. <i>Journal of Computational Physics</i> , 2016, 327, 294-316.	3.8	273
98	Numerical approximations to a new phase field model for two phase flows of complex fluids. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 310, 77-97.	6.6	52
99	Energy Stable Numerical Schemes for a Hydrodynamic Model of Nematic Liquid Crystals. <i>SIAM Journal of Scientific Computing</i> , 2016, 38, A3264-A3290.	2.8	59
100	A decoupled energy stable scheme for a hydrodynamic phase-field model of mixtures of nematic liquid crystals and viscous fluids. <i>Journal of Computational Physics</i> , 2016, 305, 539-556.	3.8	61
101	Efficient energy stable numerical schemes for a phase field moving contact line model. <i>Journal of Computational Physics</i> , 2015, 284, 617-630.	3.8	88
102	Decoupled, Energy Stable Schemes for Phase-Field Models of Two-Phase Incompressible Flows. <i>SIAM Journal on Numerical Analysis</i> , 2015, 53, 279-296.	2.3	191
103	Decoupled energy stable schemes for phase-field vesicle membrane model. <i>Journal of Computational Physics</i> , 2015, 302, 509-523.	3.8	69
104	Decoupled Energy Stable Schemes for a Phase-Field Model of Two-Phase Incompressible Flows with Variable Density. <i>Journal of Scientific Computing</i> , 2015, 62, 601-622.	2.3	86
105	Decoupled Energy Stable Schemes for Phase-Field Models of Two-Phase Complex Fluids. <i>SIAM Journal of Scientific Computing</i> , 2014, 36, B122-B145.	2.8	90
106	<i>In-silico</i> analysis on biofabricating vascular networks using kinetic Monte Carlo simulations. <i>Biofabrication</i> , 2014, 6, 015008.	7.1	22
107	Modeling and simulations of drop pinch-off from liquid crystal filaments and the leaky liquid crystal faucet immersed in viscous fluids. <i>Journal of Computational Physics</i> , 2013, 236, 1-14.	3.8	42
108	A Phase Field Approach for Multicellular Aggregate Fusion in Biofabrication. <i>Journal of Biomechanical Engineering</i> , 2013, 135, 71005.	1.3	15

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109	Mass and Volume Conservation in Phase Field Models for Binary Fluids. <i>Communications in Computational Physics</i> , 2013, 13, 1045-1065.	1.7	63
110	LCP droplet dispersions: a two-phase, diffuse-interface kinetic theory and global droplet defect predictions. <i>Soft Matter</i> , 2012, 8, 9642.	2.7	13
111	Modeling fusion of cellular aggregates in biofabrication using phase field theories. <i>Journal of Theoretical Biology</i> , 2012, 303, 110-118.	1.7	53
112	Computational and Modeling Strategies for Cell Motility. <i>Biological and Medical Physics Series</i> , 2012, , 257-296.	0.4	5
113	Engineering a 3D, biological construct: representative research in the South Carolina Project for Organ Biofabrication. <i>Biofabrication</i> , 2011, 3, 030202.	7.1	12
114	Shear cell rupture of nematic liquid crystal droplets in viscous fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2011, 166, 487-499.	2.4	27
115	Shearing the I-N phase transition of liquid crystalline polymers: Long-time memory of defect initial data. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2011, 15, 457-473.	0.9	3
116	Energy stable schemes for Cahn-Hilliard phase-field model of two-phase incompressible flows. <i>Chinese Annals of Mathematics Series B</i> , 2010, 31, 743-758.	0.4	97
117	Dynamic texture scaling of sheared nematic polymers in the large Ericksen number limit. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2010, 165, 687-697.	2.4	9
118	A Phase-Field Model and Its Numerical Approximation for Two-Phase Incompressible Flows with Different Densities and Viscosities. <i>SIAM Journal of Scientific Computing</i> , 2010, 32, 1159-1179.	2.8	247
119	2-D lid-driven cavity flow of nematic polymers: an unsteady sea of defects. <i>Soft Matter</i> , 2010, 6, 1138.	2.7	20
120	Numerical approximations of Allen-Cahn and Cahn-Hilliard equations. <i>Discrete and Continuous Dynamical Systems</i> , 2010, 28, 1669-1691.	0.9	607
121	An efficient moving mesh spectral method for the phase-field model of two-phase flows. <i>Journal of Computational Physics</i> , 2009, 228, 2978-2992.	3.8	86
122	Quench sensitivity to defects and shear banding in nematic polymer film flows. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2009, 159, 115-129.	2.4	12
123	Dynamic defect morphology and hydrodynamics of sheared nematic polymers in two space dimensions. <i>Journal of Rheology</i> , 2009, 53, 589-615.	2.6	28
124	Error analysis of stabilized semi-implicit method of Allen-Cahn equation. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2009, 11, 1057-1070.	0.9	60
125	Robustness of pulsating jet-like layers in sheared nano-rod dispersions. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2008, 155, 130-145.	2.4	11
126	Dimensional Robustness and Instability of Sheared, Semidilute, Nanorod Dispersions. <i>Multiscale Modeling and Simulation</i> , 2008, 7, 622-654.	1.6	7

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127	Oscillating Hydrodynamical Jets in Steady Shear of Nano-Rod Dispersions. AIP Conference Proceedings, 2008, , .	0.4	2
128	Error analysis of fully discrete velocity-correction methods for incompressible flows. Mathematics of Computation, 2008, 77, 1387-1405.	2.1	16
129	Error estimates for finite element approximations of consistent splitting schemes for incompressible flows. Discrete and Continuous Dynamical Systems - Series B, 2007, 8, 663-676.	0.9	15
130	Numerical simulations of jet pinching-off and drop formation using an energetic variational phase-field method. Journal of Computational Physics, 2006, 218, 417-428.	3.8	194