

# Shi Jin

## List of Publications by Year in descending order

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174  
papers

6,368  
citations

87888

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76900

74  
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175  
all docs

175  
docs citations

175  
times ranked

1717  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the mean field limit of the Random Batch Method for interacting particle systems. <i>Science China Mathematics</i> , 2022, 65, 169-202.	1.7	6
2	Accurate and efficient simulations of Hamiltonian mechanical systems with discontinuous potentials. <i>Journal of Computational Physics</i> , 2022, 450, 110846.	3.8	2
3	Superscalability of the random batch Ewald method. <i>Journal of Chemical Physics</i> , 2022, 156, 014114.	3.0	14
4	The Vlasovâ€“Fokkerâ€“Planck equation with high dimensional parametric forcing term. <i>Numerische Mathematik</i> , 2022, 150, 479-519.	1.9	4
5	A spatial-temporal asymptotic preserving scheme for radiation magnetohydrodynamics in the equilibrium and non-equilibrium diffusion limit. <i>Journal of Computational Physics</i> , 2022, 452, 110895.	3.8	3
6	Random Batch Methods for Classical and Quantum Interacting Particle Systems and Statistical Samplings. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2022, , 153-200.	0.6	5
7	Asymptotic-preserving schemes for multiscale physical problems. <i>Acta Numerica</i> , 2022, 31, 415-489.	10.7	20
8	On the Random Batch Method for Second Order Interacting Particle Systems. <i>Multiscale Modeling and Simulation</i> , 2022, 20, 741-768.	1.6	2
9	On the Convergence of Time Splitting Methods for Quantum Dynamics in the Semiclassical Regime. <i>Foundations of Computational Mathematics</i> , 2021, 21, 613-647.	2.5	10
10	Collective Dynamics of Opposing Groups with Stochastic Communication. <i>Vietnam Journal of Mathematics</i> , 2021, 49, 619-636.	0.8	0
11	Convergence of the Random Batch Method for Interacting Particles with Disparate Species and Weights. <i>SIAM Journal on Numerical Analysis</i> , 2021, 59, 746-768.	2.3	21
12	Convergence and error estimates for time-discrete consensus-based optimization algorithms. <i>Numerische Mathematik</i> , 2021, 147, 255-282.	1.9	12
13	A Random Batch Ewald Method for Particle Systems with Coulomb Interactions. <i>SIAM Journal of Scientific Computing</i> , 2021, 43, B937-B960.	2.8	22
14	Uniform error estimates for the random batch method to the firstâ€“order consensus models with antisymmetric interaction kernels. <i>Studies in Applied Mathematics</i> , 2021, 146, 983-1022.	2.4	5
15	Uniform-in-time error estimate of the random batch method for the Cuckerâ€“Smale model. <i>Mathematical Models and Methods in Applied Sciences</i> , 2021, 31, 1099-1135.	3.3	5
16	On the multi-species Boltzmann equation with uncertainty and its stochastic Galerkin approximation. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2021, 55, 1323-1345.	1.9	2
17	Convergence toward equilibrium of the first-order consensus model with random batch interactions. <i>Journal of Differential Equations</i> , 2021, 302, 585-616.	2.2	6
18	A consensus-based global optimization method for high dimensional machine learning problems. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2021, 27, S5.	1.3	39

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19	Random Batch Methods (RBM) for interacting particle systems. <i>Journal of Computational Physics</i> , 2020, 400, 108877.	3.8	62
20	A local sensitivity analysis for the hydrodynamic Cucker-Smale model with random inputs. <i>Journal of Differential Equations</i> , 2020, 268, 636-679.	2.2	2
21	Sharp decay estimates in local sensitivity analysis for evolution equations with uncertainties: From ODEs to linear kinetic equations. <i>Journal of Differential Equations</i> , 2020, 268, 1156-1204.	2.2	7
22	Gaussian wave packet transform based numerical scheme for the semi-classical Schrödinger equation with random inputs. <i>Journal of Computational Physics</i> , 2020, 401, 109015.	3.8	3
23	Moving-Water Equilibria Preserving Partial Relaxation Scheme for the Saint-Venant System. <i>SIAM Journal of Scientific Computing</i> , 2020, 42, A2206-A2229.	2.8	6
24	Convergence of a first-order consensus-based global optimization algorithm. <i>Mathematical Models and Methods in Applied Sciences</i> , 2020, 30, 2417-2444.	3.3	31
25	A Micro-Macro Method for a Kinetic Graphene Model in One Space Dimension. <i>Multiscale Modeling and Simulation</i> , 2020, 18, 444-474.	1.6	0
26	Local Sensitivity Analysis for the Kuramoto-Daido Model with Random Inputs in a Large Coupling Regime. <i>SIAM Journal on Mathematical Analysis</i> , 2020, 52, 2000-2040.	1.9	2
27	A study of Landau damping with random initial inputs. <i>Journal of Differential Equations</i> , 2019, 266, 1922-1945.	2.2	6
28	A Study of Hyperbolicity of Kinetic Stochastic Galerkin System for the Isentropic Euler Equations with Uncertainty. <i>Chinese Annals of Mathematics Series B</i> , 2019, 40, 765-780.	0.4	10
29	On stochastic Galerkin approximation of the nonlinear Boltzmann equation with uncertainty in the fluid regime. <i>Journal of Computational Physics</i> , 2019, 397, 108838.	3.8	9
30	Emergent behaviors of the Cucker-Smale ensemble under attractive-repulsive couplings and Rayleigh frictions. <i>Mathematical Models and Methods in Applied Sciences</i> , 2019, 29, 1349-1385.	3.3	16
31	Micro-macro decomposition based asymptotic-preserving numerical schemes and numerical moments conservation for collisional nonlinear kinetic equations. <i>Journal of Computational Physics</i> , 2019, 382, 264-290.	3.8	8
32	MATHEMATICAL ANALYSIS AND NUMERICAL METHODS FOR MULTISCALE KINETIC EQUATIONS WITH UNCERTAINTIES. , 2019, , .		2
33	Efficient Stochastic Asymptotic-Preserving Implicit-Explicit Methods for Transport Equations with Diffusive Scalings and Random Inputs. <i>SIAM Journal of Scientific Computing</i> , 2018, 40, A671-A696.	2.8	17
34	Hypo-coercivity and Uniform Regularity for the Vlasov-Poisson-Fokker-Planck System with Uncertainty and Multiple Scales. <i>SIAM Journal on Mathematical Analysis</i> , 2018, 50, 1790-1816.	1.9	24
35	The Discrete Stochastic Galerkin Method for Hyperbolic Equations with Non-smooth and Random Coefficients. <i>Journal of Scientific Computing</i> , 2018, 74, 97-121.	2.3	3
36	A High Order Stochastic Asymptotic Preserving Scheme for Chemotaxis Kinetic Models with Random Inputs. <i>Multiscale Modeling and Simulation</i> , 2018, 16, 1884-1915.	1.6	4

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37	Uniform regularity in the random space and spectral accuracy of the stochastic Galerkin method for a kinetic-fluid two-phase flow model with random initial inputs in the light particle regime. ESAIM: Mathematical Modelling and Numerical Analysis, 2018, 52, 1651-1678.	1.9	8
38	Quantum hydrodynamic approximations to the finite temperature trapped Bose gases. Physica D: Nonlinear Phenomena, 2018, 380-381, 45-57.	2.8	5
39	An Efficient Time-splitting Method for the Ehrenfest Dynamics. Multiscale Modeling and Simulation, 2018, 16, 900-921.	1.6	9
40	Hypo-coercivity Based Sensitivity Analysis and Spectral Convergence of the Stochastic Galerkin Approximation to Collisional Kinetic Equations with Multiple Scales and Random Inputs. Multiscale Modeling and Simulation, 2018, 16, 1085-1114.	1.6	24
41	A local sensitivity analysis for the kinetic Cucker-Smale equation with random inputs. Journal of Differential Equations, 2018, 265, 3618-3649.	2.2	9
42	A Stochastic Galerkin Method for the Fokker-Planck-Landau Equation with Random Uncertainties. Springer Proceedings in Mathematics and Statistics, 2018, , 1-19.	0.2	3
43	A stochastic asymptotic-preserving scheme for a kinetic-fluid model for disperse two-phase flows with uncertainty. Journal of Computational Physics, 2017, 335, 905-924.	3.8	12
44	The Landau-Zener Transition and the Surface Hopping Method for the 2D Dirac Equation for Graphene. Communications in Computational Physics, 2017, 21, 313-357.	1.7	4
45	A Stochastic Galerkin Method for the Boltzmann Equation with Multi-Dimensional Random Inputs Using Sparse Wavelet Bases. Numerical Mathematics, 2017, 10, 465-488.	1.3	25
46	An Asymptotic-Preserving Stochastic Galerkin Method for the Semiconductor Boltzmann Equation with Random Inputs and Diffusive Scalings. Multiscale Modeling and Simulation, 2017, 15, 157-183.	1.6	29
47	An asymptotic-preserving stochastic Galerkin method for the radiative heat transfer equations with random inputs and diffusive scalings. Journal of Computational Physics, 2017, 334, 182-206.	3.8	20
48	Nonlinear geometric optics method-based multi-scale numerical schemes for a class of highly oscillatory transport equations. Mathematical Models and Methods in Applied Sciences, 2017, 27, 2031-2070.	3.3	11
49	The Vlasov-Poisson-Fokker-Planck System with Uncertainty and a One-dimensional Asymptotic Preserving Method. Multiscale Modeling and Simulation, 2017, 15, 1502-1529.	1.6	28
50	Entropic sub-cell shock capturing schemes via Jin-Xin relaxation and Glimm front sampling for scalar conservation laws. Mathematics of Computation, 2017, 87, 1083-1126.	2.1	3
51	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. Research in Mathematical Sciences, 2017, 4, 1.	1.0	27
52	Uncertainty Quantification for Kinetic Equations. SEMA SIMAI Springer Series, 2017, , 193-229.	0.7	12
53	On the classical limit of a time-dependent self-consistent field system: Analysis and computation. Kinetic and Related Models, 2017, 10, 263-298.	0.9	9
54	An asymptotic preserving Monte Carlo method for the multispecies Boltzmann equation. Journal of Computational Physics, 2016, 305, 575-588.	3.8	28

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55	A stochastic Galerkin method for the Boltzmann equation with uncertainty. <i>Journal of Computational Physics</i> , 2016, 315, 150-168.	3.8	55
56	A Well-Balanced Stochastic Galerkin Method for Scalar Hyperbolic Balance Laws with Random Inputs. <i>Journal of Scientific Computing</i> , 2016, 67, 1198-1218.	2.3	18
57	An Asymptotic Preserving Two-dimensional Staggered Grid Method for Multiscale Transport Equations. <i>SIAM Journal on Numerical Analysis</i> , 2016, 54, 440-461.	2.3	8
58	A Multiband Semiclassical Model for Surface Hopping Quantum Dynamics. <i>Multiscale Modeling and Simulation</i> , 2015, 13, 205-230.	1.6	15
59	Schrödinger Equation: Computation. , 2015, , 1299-1301.		0
60	Asymptotic-preserving methods for hyperbolic and transport equations with random inputs and diffusive scalings. <i>Journal of Computational Physics</i> , 2015, 289, 35-52.	3.8	47
61	A Stochastic Galerkin Method for Hamilton–Jacobi Equations with Uncertainty. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, A2246-A2269.	2.8	17
62	A Gaussian Beam Method for High Frequency Solution of Symmetric Hyperbolic Systems with Polarized Waves. <i>Multiscale Modeling and Simulation</i> , 2015, 13, 733-765.	1.6	4
63	An asymptotic-preserving scheme for the semiconductor Boltzmann equation with two-scale collisions: A splitting approach. <i>Kinetic and Related Models</i> , 2015, 8, 707-723.	0.9	7
64	Computing high frequency solutions of symmetric hyperbolic systems with polarized waves. <i>Communications in Mathematical Sciences</i> , 2015, 13, 1001-1024.	1.0	1
65	Well-Posedness and Singular Limit of a Semilinear Hyperbolic Relaxation System with a Two-Scale Discontinuous Relaxation Rate. <i>Archive for Rational Mechanics and Analysis</i> , 2014, 214, 1051-1084.	2.4	9
66	Nonequilibrium hypersonic flows simulations with asymptotic-preserving Monte Carlo methods. , 2014, , .		0
67	An asymptotic-preserving Monte Carlo method for the Boltzmann equation. <i>Journal of Computational Physics</i> , 2014, 276, 380-404.	3.8	38
68	Gaussian beam methods for the Schrödinger equation with discontinuous potentials. <i>Journal of Computational and Applied Mathematics</i> , 2014, 265, 199-219.	2.0	11
69	Asymptotic-preserving schemes for kinetic fluid modeling of disperse two-phase flows with variable fluid density. <i>International Journal for Numerical Methods in Fluids</i> , 2014, 75, 81-102.	1.6	6
70	Asymptotic-preserving schemes for kinetic-fluid modeling of disperse two-phase flows. <i>Journal of Computational Physics</i> , 2013, 246, 145-164.	3.8	12
71	$l^1$ -error estimates on the immersed interface upwind scheme for linear convection equations with piecewise constant coefficients: A simple proof. <i>Science China Mathematics</i> , 2013, 56, 2773-2782.	1.7	2
72	A Successive Penalty-Based Asymptotic-Preserving Scheme for Kinetic Equations. <i>SIAM Journal of Scientific Computing</i> , 2013, 35, A150-A172.	2.8	19

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73	A BGKâ€penalizationâ€based asymptoticâ€preserving scheme for the multispecies Boltzmann equation. Numerical Methods for Partial Differential Equations, 2013, 29, 1056-1080.	3.6	17
74	Asymptotic-Preserving Numerical Schemes for the Semiconductor Boltzmann Equation Efficient in the High Field Regime. SIAM Journal of Scientific Computing, 2013, 35, B799-B819.	2.8	11
75	The Gaussian beam method for the wigner equation with discontinuous potentials. Inverse Problems and Imaging, 2013, 7, 1051-1074.	1.1	3
76	Semi-classical models for the SchrÃ¶dinger equation with periodic potentials and band crossings. Kinetic and Related Models, 2013, 6, 505-532.	0.9	7
77	A semi-Lagrangian time splitting method for the SchrÃ¶dinger equation with vector potentials. Communications in Information and Systems, 2013, 13, 247-289.	0.5	11
78	An All-Speed Asymptotic-Preserving Method for the Isentropic Euler and Navier-Stokes Equations. Communications in Computational Physics, 2012, 12, 955-980.	1.7	90
79	A Numerical Scheme for the Quantum Fokker-Planck-Landau Equation Efficient in the Fluid Regime. Communications in Computational Physics, 2012, 12, 1541-1561.	1.7	13
80	A numerical scheme for the quantum Boltzmann equation with stiff collision terms. ESAIM: Mathematical Modelling and Numerical Analysis, 2012, 46, 443-463.	1.9	32
81	A Particle Method for the Semiclassical Limit of the SchrÃ¶dinger Equation and the Vlasov-Poisson Equations. SIAM Journal on Numerical Analysis, 2012, 50, 3259-3279.	2.3	1
82	Simulation of fluidâ€particles flows: heavy particles, flowing regime, and asymptotic-preserving schemes. Communications in Mathematical Sciences, 2012, 10, 355-385.	1.0	10
83	Gaussian beam methods for the Dirac equation in the semi-classical regime. Communications in Mathematical Sciences, 2012, 10, 1301-1315.	1.0	23
84	An Eulerian Surface Hopping Method for the SchrÃ¶dinger Equation with Conical Crossings. Multiscale Modeling and Simulation, 2011, 9, 258-281.	1.6	15
85	An asymptotic preserving scheme for the vlasov-poisson-fokker-planck system in the high field regime. Acta Mathematica Scientia, 2011, 31, 2219-2232.	1.0	21
86	An Asymptotic Preserving Scheme for the ES-BGK Model of the Boltzmann Equation. Journal of Scientific Computing, 2011, 46, 204-224.	2.3	55
87	A class of asymptotic-preserving schemes for the Fokkerâ€Planckâ€Landau equation. Journal of Computational Physics, 2011, 230, 6420-6437.	3.8	41
88	Semi-Eulerian and High Order Gaussian Beam Methods for the SchrÃ¶dinger Equation in the Semiclassical Regime. Communications in Computational Physics, 2011, 9, 668-687.	1.7	18
89	Mathematical and computational methods for semiclassical SchrÃ¶dinger equations. Acta Numerica, 2011, 20, 121-209.	10.7	107
90	A hybrid SchrÃ¶dinger/Gaussian beam solver for quantum barriers and surface hopping. Kinetic and Related Models, 2011, 4, 1097-1120.	0.9	5

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91	Computational high frequency wave diffraction by a corner via the Liouville equation and geometric theory of diffraction. <i>Kinetic and Related Models</i> , 2011, 4, 295-316.	0.9	6
92	On kinetic flux vector splitting schemes for quantum Euler equations. <i>Kinetic and Related Models</i> , 2011, 4, 517-530.	0.9	13
93	A level set method for the semiclassical limit of the Schrödinger equation with discontinuous potentials. <i>Journal of Computational Physics</i> , 2010, 229, 7440-7455.	3.8	5
94	Bloch decomposition-based Gaussian beam method for the Schrödinger equation with periodic potentials. <i>Journal of Computational Physics</i> , 2010, 229, 4869-4883.	3.8	23
95	A class of asymptotic-preserving schemes for kinetic equations and related problems with stiff sources. <i>Journal of Computational Physics</i> , 2010, 229, 7625-7648.	3.8	236
96	The Gaussian Beam Methods for Schrödinger-Poisson Equations. <i>Journal of Computational Mathematics</i> , 2010, 28, 261-272.	0.4	14
97	A Micro-Macro Decomposition-Based Asymptotic-Preserving Scheme for the Multispecies Boltzmann Equation. <i>SIAM Journal of Scientific Computing</i> , 2010, 31, 4580-4606.	2.8	19
98	A coherent semiclassical transport model for pure-state quantum scattering. <i>Communications in Mathematical Sciences</i> , 2010, 8, 253-275.	1.0	9
99	Bloch Decomposition-Based Method for High Frequency Waves in Periodic Media. <i>Series in Contemporary Applied Mathematics</i> , 2010, , 161-188.	0.8	0
100	On the Bloch decomposition based spectral method for wave propagation in periodic media. <i>Wave Motion</i> , 2009, 46, 15-28.	2.0	8
101	A Hybrid Phase-Flow Method for Hamiltonian Systems with Discontinuous Hamiltonians. <i>SIAM Journal of Scientific Computing</i> , 2009, 31, 1303-1321.	2.8	11
102	Recent Computational Methods for High Frequency Waves in Heterogeneous Media. <i>Series in Contemporary Applied Mathematics</i> , 2009, , 49-64.	0.8	4
103	Computational high frequency waves through curved interfaces via the Liouville equation and geometric theory of diffraction. <i>Journal of Computational Physics</i> , 2008, 227, 6106-6139.	3.8	24
104	Computation of the Semiclassical Limit of the Schrödinger Equation with Phase Shift by a Level Set Method. <i>Journal of Scientific Computing</i> , 2008, 35, 144-169.	2.3	12
105	Computation of Interface Reflection and Regular or Diffuse Transmission of the Planar Symmetric Radiative Transfer Equation with Isotropic Scattering and Its Diffusion Limit. <i>SIAM Journal of Scientific Computing</i> , 2008, 30, 1992-2017.	2.8	6
106	Numerical Simulation of the Nonlinear Schrödinger Equation with Multidimensional Periodic Potentials. <i>Multiscale Modeling and Simulation</i> , 2008, 7, 539-564.	1.6	15
107	The $L^1$ -Error Estimates for a Hamiltonian-Preserving Scheme for the Liouville Equation with Piecewise Constant Potentials. <i>SIAM Journal on Numerical Analysis</i> , 2008, 46, 2688-2714.	2.3	10
108	On the Time Splitting Spectral Method for the Complex Ginzburg-Landau Equation in the Large Time and Space Scale Limit. <i>SIAM Journal of Scientific Computing</i> , 2008, 30, 2466-2487.	2.8	30



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109	THE VLASOVâ€“POISSON EQUATIONS AS THE SEMICLASSICAL LIMIT OF THE SCHRÅ–DINGERâ€“POISSON EQUATIONS: A NUMERICAL STUDY. <i>Journal of Hyperbolic Differential Equations</i> , 2008, 05, 569-587.	0.5	5
110	A domain decomposition method for a two-scale transport equation with energy flux conserved at the interface. <i>Kinetic and Related Models</i> , 2008, 1, 65-84.	0.9	5
111	A Bloch Decompositionâ€“Based Splitâ€“Step Pseudospectral Method for Quantum Dynamics with Periodic Potentials. <i>SIAM Journal of Scientific Computing</i> , 2007, 29, 515-538.	2.8	20
112	A semiclassical transport model for two-dimensional thin quantum barriers. <i>Journal of Computational Physics</i> , 2007, 226, 1623-1644.	3.8	13
113	A Semiclassical Transport Model for Thin Quantum Barriers. <i>Multiscale Modeling and Simulation</i> , 2006, 5, 1063-1086.	1.6	17
114	A Hamiltonianâ€“Preserving Scheme for the Liouville Equation of Geometrical Optics with Partial Transmissions and Reflections. <i>SIAM Journal on Numerical Analysis</i> , 2006, 44, 1801-1828.	2.3	38
115	Computation of transmissions and reflections in geometrical optics via the reduced Liouville equation. <i>Wave Motion</i> , 2006, 43, 667-688.	2.0	14
116	A Time-Splitting Spectral Method for the Generalized Zakharov System in Multi-Dimensions. <i>Journal of Scientific Computing</i> , 2006, 26, 127-149.	2.3	14
117	Hamiltonian-preserving schemes for the Liouville equation of geometrical optics with discontinuous local wave speeds. <i>Journal of Computational Physics</i> , 2006, 214, 672-697.	3.8	33
118	A HAMILTONIAN-PRESERVING SCHEME FOR HIGH FREQUENCY ELASTIC WAVES IN HETEROGENEOUS MEDIA. <i>Journal of Hyperbolic Differential Equations</i> , 2006, 03, 741-777.	0.5	22
119	A time-splitting spectral scheme for the Maxwellâ€“Dirac system. <i>Journal of Computational Physics</i> , 2005, 208, 761-789.	3.8	64
120	A smooth transition model between kinetic and hydrodynamic equations. <i>Journal of Computational Physics</i> , 2005, 209, 665-694.	3.8	67
121	Computing multi-valued physical observables for the high frequency limit of symmetric hyperbolic systems. <i>Journal of Computational Physics</i> , 2005, 210, 497-518.	3.8	35
122	Computing multivalued physical observables for the semiclassical limit of the SchrÅ–dinger equation. <i>Journal of Computational Physics</i> , 2005, 205, 222-241.	3.8	59
123	A Smooth Transition Model between Kinetic and Diffusion Equations. <i>SIAM Journal on Numerical Analysis</i> , 2005, 42, 2671-2687.	2.3	43
124	Two Interface-Type Numerical Methods for Computing Hyperbolic Systems with Geometrical Source Terms Having Concentrations. <i>SIAM Journal of Scientific Computing</i> , 2005, 26, 2079-2101.	2.8	49
125	Hamiltonian-Preserving Schemes for the Liouville Equation with Discontinuous Potentials. <i>Communications in Mathematical Sciences</i> , 2005, 3, 285-315.	1.0	46
126	Numerical simulation of a generalized Zakharov system. <i>Journal of Computational Physics</i> , 2004, 201, 376-395.	3.8	58



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127	Eulerian method for computing multivalued solutions of the Euler-Poisson equations and applications to wave breaking in klystrons. <i>Physical Review E</i> , 2004, 70, 016502.	2.1	24
128	Robust numerical simulation of porosity evolution in chemical vapor infiltration III: three space dimension. <i>Journal of Computational Physics</i> , 2003, 186, 582-595.	3.8	15
129	Wave patterns, stability, and slow motions in inviscid and viscous hyperbolic equations with stiff reaction terms. <i>Journal of Differential Equations</i> , 2003, 189, 267-291.	2.2	5
130	Multi-phase computations of the semiclassical limit of the Schrödinger equation and related problems: Whitham vs Wigner. <i>Physica D: Nonlinear Phenomena</i> , 2003, 182, 46-85.	2.8	70
131	Numerical Study of Time-Splitting Spectral Discretizations of Nonlinear Schrödinger Equations in the Semiclassical Regimes. <i>SIAM Journal of Scientific Computing</i> , 2003, 25, 27-64.	2.8	167
132	Numerical Approximations of Pressureless and Isothermal Gas Dynamics. <i>SIAM Journal on Numerical Analysis</i> , 2003, 41, 135-158.	2.3	89
133	High Frequency Behavior of the Focusing Nonlinear Schrödinger Equation with Random Inhomogeneities. <i>SIAM Journal on Applied Mathematics</i> , 2003, 63, 1328-1358.	1.8	11
134	TWO MOMENT SYSTEMS FOR COMPUTING MULTIPHASE SEMICLASSICAL LIMITS OF THE SCHRÖDINGER EQUATION. <i>Mathematical Models and Methods in Applied Sciences</i> , 2003, 13, 1689-1723.	3.3	49
135	A Domain Decomposition Analysis for a Two-Scale Linear Transport Problem. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2003, 37, 869-892.	1.9	33
136	Front motion in multi-dimensional viscous conservation laws with stiff source terms driven by mean curvature and variation of front thickness. <i>Quarterly of Applied Mathematics</i> , 2003, 61, 701-721.	0.7	3
137	A level set method for the computation of multi-valued solutions to quasi-linear hyperbolic PDE's and Hamilton-Jacobi equations. <i>Communications in Mathematical Sciences</i> , 2003, 1, 575-591.	1.0	67
138	On Time-Splitting Spectral Approximations for the Schrödinger Equation in the Semiclassical Regime. <i>Journal of Computational Physics</i> , 2002, 175, 487-524.	3.8	318
139	The Random Projection Method for Stiff Multispecies Detonation Capturing. <i>Journal of Computational Physics</i> , 2002, 178, 37-57.	3.8	20
140	Robust Numerical Simulation of Porosity Evolution in Chemical Vapor Infiltration. <i>Journal of Computational Physics</i> , 2002, 179, 557-577.	3.8	23
141	A Relaxation Scheme for Solving the Boltzmann Equation Based on the Chapman-Enskog Expansion. <i>Acta Mathematicae Applicatae Sinica</i> , 2002, 18, 37-62.	0.7	23
142	Error estimates on the random projection methods for hyperbolic conservation laws with stiff reaction terms. <i>Applied Numerical Mathematics</i> , 2002, 43, 315-333.	2.1	4
143	The Random Projection Method for Stiff Detonation Capturing. <i>SIAM Journal of Scientific Computing</i> , 2001, 23, 1000-1026.	2.8	16
144	A steady-state capturing method for hyperbolic systems with geometrical source terms. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2001, 35, 631-645.	1.9	145

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145	Regularization of the Burnett equations for rapid granular flows via relaxation. <i>Physica D: Nonlinear Phenomena</i> , 2001, 150, 207-218.	2.8	24
146	Regularization of the Burnett Equations via Relaxation. <i>Journal of Statistical Physics</i> , 2001, 103, 1009-1033.	1.2	109
147	Asymptotic-Preserving (Ap) Schemes for Multiscale Kinetic Equations: a Unified Approach. , 2001, , 573-582.		9
148	The Random Projection Method for Stiff Multi-species Detonation Computation. , 2001, , 139-148.		0
149	A diffusive subcharacteristic condition for hyperbolic systems with diffusive relaxation. <i>Transport Theory and Statistical Physics</i> , 2000, 29, 583-593.	0.4	5
150	Discretization of the Multiscale Semiconductor Boltzmann Equation by Diffusive Relaxation Schemes. <i>Journal of Computational Physics</i> , 2000, 161, 312-330.	3.8	44
151	Robust Numerical Simulation of Porosity Evolution in Chemical Vapor Infiltration I: Two Space Dimension. <i>Journal of Computational Physics</i> , 2000, 162, 467-482.	3.8	13
152	The Random Projection Method for Hyperbolic Conservation Laws with Stiff Reaction Terms. <i>Journal of Computational Physics</i> , 2000, 163, 216-248.	3.8	62
153	Zero Reaction Limit for Hyperbolic Conservation Laws with Source Terms. <i>Journal of Differential Equations</i> , 2000, 168, 270-294.	2.2	21
154	Hyperbolic Systems with Supercharacteristic Relaxations and Roll Waves. <i>SIAM Journal on Applied Mathematics</i> , 2000, 61, 273-292.	1.8	19
155	Uniformly Accurate Diffusive Relaxation Schemes for Multiscale Transport Equations. <i>SIAM Journal on Numerical Analysis</i> , 2000, 38, 913-936.	2.3	152
156	The Convergence of Numerical Transfer Schemes in Diffusive Regimes I: Discrete-Ordinate Method. <i>SIAM Journal on Numerical Analysis</i> , 1999, 36, 1333-1369.	2.3	73
157	Relaxation schemes for curvature-dependent front propagation. , 1999, 52, 1587-1615.		8
158	Efficient Asymptotic-Preserving (AP) Schemes For Some Multiscale Kinetic Equations. <i>SIAM Journal of Scientific Computing</i> , 1999, 21, 441-454.	2.8	358
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