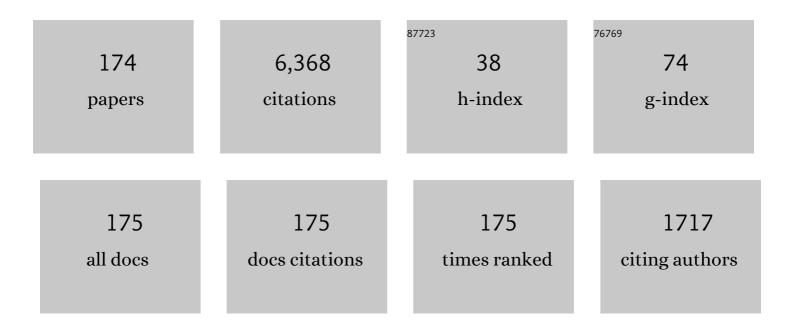


## List of Publications by Year in descending order

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SHITIM

#	Article	IF	CITATIONS
1	The relaxation schemes for systems of conservation laws in arbitrary space dimensions. Communications on Pure and Applied Mathematics, 1995, 48, 235-276.	1.2	734
2	Efficient Asymptotic-Preserving (AP) Schemes For Some Multiscale Kinetic Equations. SIAM Journal of Scientific Computing, 1999, 21, 441-454.	1.3	358
3	On Time-Splitting Spectral Approximations for the Schrödinger Equation in the Semiclassical Regime. Journal of Computational Physics, 2002, 175, 487-524.	1.9	318
4	Physical symmetry and lattice symmetry in the lattice Boltzmann method. Physical Review E, 1997, 55, R21-R24.	0.8	237
5	A class of asymptotic-preserving schemes for kinetic equations and related problems with stiff sources. Journal of Computational Physics, 2010, 229, 7625-7648.	1.9	236
6	Runge-Kutta Methods for Hyperbolic Conservation Laws with Stiff Relaxation Terms. Journal of Computational Physics, 1995, 122, 51-67.	1.9	176
7	Numerical Schemes for Hyperbolic Conservation Laws with Stiff Relaxation Terms. Journal of Computational Physics, 1996, 126, 449-467.	1.9	172
8	Numerical Study of Time-Splitting Spectral Discretizations of Nonlinear Schrödinger Equations in the Semiclassical Regimes. SIAM Journal of Scientific Computing, 2003, 25, 27-64.	1.3	167
9	Uniformly Accurate Diffusive Relaxation Schemes for Multiscale Transport Equations. SIAM Journal on Numerical Analysis, 2000, 38, 913-936.	1.1	152
10	A steady-state capturing method for hyperbolic systems with geometrical source terms. ESAIM: Mathematical Modelling and Numerical Analysis, 2001, 35, 631-645.	0.8	145
11	Diffusive Relaxation Schemes for Multiscale Discrete-Velocity Kinetic Equations. SIAM Journal on Numerical Analysis, 1998, 35, 2405-2439.	1.1	140
12	Uniformly Accurate Schemes for Hyperbolic Systems with Relaxation. SIAM Journal on Numerical Analysis, 1997, 34, 246-281.	1.1	138
13	Regularization of the Burnett Equations via Relaxation. Journal of Statistical Physics, 2001, 103, 1009-1033.	0.5	109
14	Mathematical and computational methods for semiclassical Schrödinger equations. Acta Numerica, 2011, 20, 121-209.	6.3	107
15	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
16	Numerical Approximations of Pressureless and Isothermal Gas Dynamics. SIAM Journal on Numerical Analysis, 2003, 41, 135-158.	1.1	89
17	Numerical Passage from Systems of Conservation Laws to Hamilton–Jacobi Equations, and Relaxation Schemes. SIAM Journal on Numerical Analysis, 1998, 35, 2385-2404.	1.1	88
18	The Convergence of Numerical Transfer Schemes in Diffusive Regimes I: Discrete-Ordinate Method. SIAM Journal on Numerical Analysis, 1999, 36, 1333-1369.	1.1	73

#	Article	IF	CITATIONS
19	Multi-phase computations of the semiclassical limit of the SchrĶdinger equation and related problems: Whitham vs Wigner. Physica D: Nonlinear Phenomena, 2003, 182, 46-85.	1.3	70
20	A smooth transition model between kinetic and hydrodynamic equations. Journal of Computational Physics, 2005, 209, 665-694.	1.9	67
21	A level set method for the computation of multi-valued solutions to quasi-linear hyperbolic PDE's and Hamilton-Jacobi equations. Communications in Mathematical Sciences, 2003, 1, 575-591.	0.5	67
22	The Effects of Numerical Viscosities. Journal of Computational Physics, 1996, 126, 373-389.	1.9	66
23	A time-splitting spectral scheme for the Maxwell–Dirac system. Journal of Computational Physics, 2005, 208, 761-789.	1.9	64
24	The Random Projection Method for Hyperbolic Conservation Laws with Stiff Reaction Terms. Journal of Computational Physics, 2000, 163, 216-248.	1.9	62
25	Random Batch Methods (RBM) for interacting particle systems. Journal of Computational Physics, 2020, 400, 108877.	1.9	62
26	Computing multivalued physical observables for the semiclassical limit of the Schrödinger equation. Journal of Computational Physics, 2005, 205, 222-241.	1.9	59
27	Numerical simulation of a generalized Zakharov system. Journal of Computational Physics, 2004, 201, 376-395.	1.9	58
28	An Asymptotic Preserving Scheme for the ES-BGK Model of the Boltzmann Equation. Journal of Scientific Computing, 2011, 46, 204-224.	1.1	55
29	A stochastic Galerkin method for the Boltzmann equation with uncertainty. Journal of Computational Physics, 2016, 315, 150-168.	1.9	55
30	The discrete-ordinate method in diffusive regimes. Transport Theory and Statistical Physics, 1991, 20, 413-439.	0.4	51
31	TWO MOMENT SYSTEMS FOR COMPUTING MULTIPHASE SEMICLASSICAL LIMITS OF THE SCHRÃ-DINGER EQUATION. Mathematical Models and Methods in Applied Sciences, 2003, 13, 1689-1723.	1.7	49
32	Two Interface-Type Numerical Methods for Computing Hyperbolic Systems with Geometrical Source Terms Having Concentrations. SIAM Journal of Scientific Computing, 2005, 26, 2079-2101.	1.3	49
33	Fully-discrete numerical transfer in diffusive regimes. Transport Theory and Statistical Physics, 1993, 22, 739-791.	0.4	47
34	Asymptotic-preserving methods for hyperbolic and transport equations with random inputs and diffusive scalings. Journal of Computational Physics, 2015, 289, 35-52.	1.9	47
35	Hamiltonian-Preserving Schemes for the Liouville Equation with Discontinuous Potentials. Communications in Mathematical Sciences, 2005, 3, 285-315.	0.5	46
36	Discretization of the Multiscale Semiconductor Boltzmann Equation by Diffusive Relaxation Schemes. Journal of Computational Physics, 2000, 161, 312-330.	1.9	44

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37	A Smooth Transition Model between Kinetic and Diffusion Equations. SIAM Journal on Numerical Analysis, 2005, 42, 2671-2687.	1.1	43
38	A class of asymptotic-preserving schemes for the Fokker–Planck–Landau equation. Journal of Computational Physics, 2011, 230, 6420-6437.	1.9	41
39	A consensus-based global optimization method for high dimensional machine learning problems. ESAIM - Control, Optimisation and Calculus of Variations, 2021, 27, S5.	0.7	39
40	A Hamiltonianâ€Preserving Scheme for the Liouville Equation of Geometrical Optics with Partial Transmissions and Reflections. SIAM Journal on Numerical Analysis, 2006, 44, 1801-1828.	1.1	38
41	An asymptotic-preserving Monte Carlo method for the Boltzmann equation. Journal of Computational Physics, 2014, 276, 380-404.	1.9	38
42	Computing multi-valued physical observables for the high frequency limit of symmetric hyperbolic systems. Journal of Computational Physics, 2005, 210, 497-518.	1.9	35
43	A Domain Decomposition Analysis for a Two-Scale Linear Transport Problem. ESAIM: Mathematical Modelling and Numerical Analysis, 2003, 37, 869-892.	0.8	33
44	Hamiltonian-preserving schemes for the Liouville equation of geometrical optics with discontinuous local wave speeds. Journal of Computational Physics, 2006, 214, 672-697.	1.9	33
45	A numerical scheme for the quantum Boltzmann equation with stiff collision terms. ESAIM: Mathematical Modelling and Numerical Analysis, 2012, 46, 443-463.	0.8	32
46	Convergence of a first-order consensus-based global optimization algorithm. Mathematical Models and Methods in Applied Sciences, 2020, 30, 2417-2444.	1.7	31
47	On the Time Splitting Spectral Method for the Complex Ginzburg–Landau Equation in the Large Time and Space Scale Limit. SIAM Journal of Scientific Computing, 2008, 30, 2466-2487.	1.3	30
48	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.	0.6	29
49	An asymptotic preserving Monte Carlo method for the multispecies Boltzmann equation. Journal of Computational Physics, 2016, 305, 575-588.	1.9	28
50	The Vlasov–Poisson–Fokker–Planck System with Uncertainty and a One-dimensional Asymptotic Preserving Method. Multiscale Modeling and Simulation, 2017, 15, 1502-1529.	0.6	28
51	Application of Relaxation Scheme to Wave-Propagation Simulation in Open-Channel Networks. Journal of Hydraulic Engineering, 1998, 124, 1125-1133.	0.7	27
52	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.	0.5	27
53	A Stochastic Galerkin Method for the Boltzmann Equation with Multi-Dimensional Random Inputs Using Sparse Wavelet Bases. Numerical Mathematics, 2017, 10, 465-488.	0.6	25
54	Numerical Integrations of Systems of Conservation Laws of Mixed Type. SIAM Journal on Applied Mathematics, 1995, 55, 1536-1551.	0.8	24

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55	Regularization of the Burnett equations for rapid granular flows via relaxation. Physica D: Nonlinear Phenomena, 2001, 150, 207-218.	1.3	24
56	Eulerian method for computing multivalued solutions of the Euler-Poisson equations and applications to wave breaking in klystrons. Physical Review E, 2004, 70, 016502.	0.8	24
57	Computational high frequency waves through curved interfaces via the Liouville equation and geometric theory of diffraction. Journal of Computational Physics, 2008, 227, 6106-6139.	1.9	24
58	Hypocoercivity and Uniform Regularity for the VlasovPoisson–FokkerPlanck System with Uncertainty and Multiple Scales. SIAM Journal on Mathematical Analysis, 2018, 50, 1790-1816.	0.9	24
59	Hypocoercivity 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.	0.6	24
60	Robust Numerical Simulation of Porosity Evolution in Chemical Vapor Infiltration. Journal of Computational Physics, 2002, 179, 557-577.	1.9	23
61	A Relaxation Scheme for Solving the Boltzmann Equation Based on the Chapman-Enskog Expansion. Acta Mathematicae Applicatae Sinica, 2002, 18, 37-62.	0.4	23
62	Bloch decomposition-based Gaussian beam method for the Schr¶dinger equation with periodic potentials. Journal of Computational Physics, 2010, 229, 4869-4883.	1.9	23
63	Gaussian beam methods for the Dirac equation in the semi-classical regime. Communications in Mathematical Sciences, 2012, 10, 1301-1315.	0.5	23
64	A HAMILTONIAN-PRESERVING SCHEME FOR HIGH FREQUENCY ELASTIC WAVES IN HETEROGENEOUS MEDIA. Journal of Hyperbolic Differential Equations, 2006, 03, 741-777.	0.3	22
65	A Random Batch Ewald Method for Particle Systems with Coulomb Interactions. SIAM Journal of Scientific Computing, 2021, 43, B937-B960.	1.3	22
66	Zero Reaction Limit for Hyperbolic Conservation Laws with Source Terms. Journal of Differential Equations, 2000, 168, 270-294.	1.1	21
67	An asymptotic preserving scheme for the vlasov-poisson-fokker-planck system in the high field regime. Acta Mathematica Scientia, 2011, 31, 2219-2232.	0.5	21
68	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
69	The Random Projection Method for Stiff Multispecies Detonation Capturing. Journal of Computational Physics, 2002, 178, 37-57.	1.9	20
70	A Bloch Decomposition–Based Split‣tep Pseudospectral Method for Quantum Dynamics with Periodic Potentials. SIAM Journal of Scientific Computing, 2007, 29, 515-538.	1.3	20
71	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.	1.9	20
72	Asymptotic-preserving schemes for multiscale physical problems. Acta Numerica, 2022, 31, 415-489.	6.3	20

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73	Hyperbolic Systems with Supercharacteristic Relaxations and Roll Waves. SIAM Journal on Applied Mathematics, 2000, 61, 273-292.	0.8	19
74	A Micro-Macro Decomposition-Based Asymptotic-Preserving Scheme for the Multispecies Boltzmann Equation. SIAM Journal of Scientific Computing, 2010, 31, 4580-4606.	1.3	19
75	A Successive Penalty-Based Asymptotic-Preserving Scheme for Kinetic Equations. SIAM Journal of Scientific Computing, 2013, 35, A150-A172.	1.3	19
76	Semi-Eulerian and High Order Gaussian Beam Methods for the Schrödinger Equation in the Semiclassical Regime. Communications in Computational Physics, 2011, 9, 668-687.	0.7	18
77	A Well-Balanced Stochastic Galerkin Method for Scalar Hyperbolic Balance Laws with Random Inputs. Journal of Scientific Computing, 2016, 67, 1198-1218.	1.1	18
78	A Semiclassical Transport Model for Thin Quantum Barriers. Multiscale Modeling and Simulation, 2006, 5, 1063-1086.	0.6	17
79	A BGKâ€penalizationâ€based asymptoticâ€preserving scheme for the multispecies Boltzmann equation. Numerical Methods for Partial Differential Equations, 2013, 29, 1056-1080.	2.0	17
80	A Stochastic Galerkin Method for Hamilton–Jacobi Equations with Uncertainty. SIAM Journal of Scientific Computing, 2015, 37, A2246-A2269.	1.3	17
81	Efficient Stochastic Asymptotic-Preserving Implicit-Explicit Methods for Transport Equations with Diffusive Scalings and Random Inputs. SIAM Journal of Scientific Computing, 2018, 40, A671-A696.	1.3	17
82	The Random Projection Method for Stiff Detonation Capturing. SIAM Journal of Scientific Computing, 2001, 23, 1000-1026.	1.3	16
83	Emergent behaviors of the Cucker–Smale ensemble under attractive–repulsive couplings and Rayleigh frictions. Mathematical Models and Methods in Applied Sciences, 2019, 29, 1349-1385.	1.7	16
84	Robust numerical simulation of porosity evolution in chemical vapor infiltration III: three space dimension. Journal of Computational Physics, 2003, 186, 582-595.	1.9	15
85	Numerical Simulation of the Nonlinear SchrĶdinger Equation with Multidimensional Periodic Potentials. Multiscale Modeling and Simulation, 2008, 7, 539-564.	0.6	15
86	An Eulerian Surface Hopping Method for the Schrödinger Equation with Conical Crossings. Multiscale Modeling and Simulation, 2011, 9, 258-281.	0.6	15
87	A Multiband Semiclassical Model for Surface Hopping Quantum Dynamics. Multiscale Modeling and Simulation, 2015, 13, 205-230.	0.6	15
88	Computation of transmissions and reflections in geometrical optics via the reduced Liouville equation. Wave Motion, 2006, 43, 667-688.	1.0	14
89	A Time-Splitting Spectral Method for the Generalized Zakharov System in Multi-Dimensions. Journal of Scientific Computing, 2006, 26, 127-149.	1.1	14
90	The Gaussian Beam Methods for Schrödinger-Poisson Equations. Journal of Computational Mathematics, 2010, 28, 261-272.	0.2	14

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91	Superscalability of the random batch Ewald method. Journal of Chemical Physics, 2022, 156, 014114.	1.2	14
92	Robust Numerical Simulation of Porosity Evolution in Chemical Vapor Infiltration I: Two Space Dimension. Journal of Computational Physics, 2000, 162, 467-482.	1.9	13
93	A semiclassical transport model for two-dimensional thin quantum barriers. Journal of Computational Physics, 2007, 226, 1623-1644.	1.9	13
94	A Numerical Scheme for the Quantum Fokker-Planck-Landau Equation Efficient in the Fluid Regime. Communications in Computational Physics, 2012, 12, 1541-1561.	0.7	13
95	On kinetic flux vector splitting schemes for quantum Euler equations. Kinetic and Related Models, 2011, 4, 517-530.	0.5	13
96	Diffusion limit of a hyperbolic system with relaxation. Methods and Applications of Analysis, 1998, 5, 317-334.	0.1	13
97	Computation of the Semiclassical Limit of the Schrödinger Equation with Phase Shift by a Level Set Method. Journal of Scientific Computing, 2008, 35, 144-169.	1.1	12
98	Asymptotic-preserving schemes for kinetic-fluid modeling of disperse two-phase flows. Journal of Computational Physics, 2013, 246, 145-164.	1.9	12
99	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.	1.9	12
100	Convergence and error estimates for time-discrete consensus-based optimization algorithms. Numerische Mathematik, 2021, 147, 255-282.	0.9	12
101	Uncertainty Quantification for Kinetic Equations. SEMA SIMAI Springer Series, 2017, , 193-229.	0.4	12
102	A model for front evolution with a nonlocal growth rate. Journal of Materials Research, 1999, 14, 3829-3832.	1.2	11
103	High Frequency Behavior of the Focusing Nonlinear Schrödinger Equation with Random Inhomogeneities. SIAM Journal on Applied Mathematics, 2003, 63, 1328-1358.	0.8	11
104	A Hybrid Phase-Flow Method for Hamiltonian Systems with Discontinuous Hamiltonians. SIAM Journal of Scientific Computing, 2009, 31, 1303-1321.	1.3	11
105	Asymptotic-Preserving Numerical Schemes for the Semiconductor Boltzmann Equation Efficient in the High Field Regime. SIAM Journal of Scientific Computing, 2013, 35, B799-B819.	1.3	11
106	Gaussian beam methods for the Schrödinger equation with discontinuous potentials. Journal of Computational and Applied Mathematics, 2014, 265, 199-219.	1.1	11
107	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.	1.7	11
108	A semi-Lagrangian time splitting method for the Schrödinger equation with vector potentials. Communications in Information and Systems, 2013, 13, 247-289.	0.3	11

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109	The \${I}^1\$-Error Estimates for a Hamiltonian-Preserving Scheme for the Liouville Equation with Piecewise Constant Potentials. SIAM Journal on Numerical Analysis, 2008, 46, 2688-2714.	1.1	10
110	A Study of Hyperbolicity of Kinetic Stochastic Galerkin System for the Isentropic Euler Equations with Uncertainty. Chinese Annals of Mathematics Series B, 2019, 40, 765-780.	0.2	10
111	On the Convergence of Time Splitting Methods for Quantum Dynamics in the Semiclassical Regime. Foundations of Computational Mathematics, 2021, 21, 613-647.	1.5	10
112	Simulation of fluid–particles flows: heavy particles, flowing regime, and asymptotic-preserving schemes. Communications in Mathematical Sciences, 2012, 10, 355-385.	0.5	10
113	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
114	An Efficient Time-splitting Method for the Ehrenfest Dynamics. Multiscale Modeling and Simulation, 2018, 16, 900-921.	0.6	9
115	A local sensitivity analysis for the kinetic Cucker–Smale equation with random inputs. Journal of Differential Equations, 2018, 265, 3618-3649.	1.1	9
116	On stochastic Galerkin approximation of the nonlinear Boltzmann equation with uncertainty in the fluid regime. Journal of Computational Physics, 2019, 397, 108838.	1.9	9
117	Asymptotic-Preserving (Ap) Schemes for Multiscale Kinetic Equations: a Unified Approach. , 2001, , 573-582.		9
118	On the classical limit of a time-dependent self-consistent field system: Analysis and computation. Kinetic and Related Models, 2017, 10, 263-298.	0.5	9
119	A coherent semiclassical transport model for pure-state quantum scattering. Communications in Mathematical Sciences, 2010, 8, 253-275.	0.5	9
120	Relaxation Approximations to Front Propagation. Journal of Differential Equations, 1997, 138, 380-387.	1.1	8
121	Relaxation schemes for curvature-dependent front propagation. , 1999, 52, 1587-1615.		8
122	On the Bloch decomposition based spectral method for wave propagation in periodic media. Wave Motion, 2009, 46, 15-28.	1.0	8
123	An Asymptotic Preserving Two-dimensional Staggered Grid Method for Multiscale Transport Equations. SIAM Journal on Numerical Analysis, 2016, 54, 440-461.	1.1	8
124	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.	0.8	8
125	Micro-macro decomposition based asymptotic-preserving numerical schemes and numerical moments conservation for collisional nonlinear kinetic equations. Journal of Computational Physics, 2019, 382, 264-290.	1.9	8
126	Sharp decay estimates in local sensitivity analysis for evolution equations with uncertainties: From ODEs to linear kinetic equations. Journal of Differential Equations, 2020, 268, 1156-1204.	1.1	7

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127	Semi-classical models for the Schrödinger equation with periodic potentials and band crossings. Kinetic and Related Models, 2013, 6, 505-532.	0.5	7
128	An asymptotic-preserving scheme for the semiconductor Boltzmann equation with two-scale collisions: A splitting approach. Kinetic and Related Models, 2015, 8, 707-723.	0.5	7
129	Computation of Interface Reflection and Regular or Diffuse Transmission of the Planar Symmetric Radiative Transfer Equation with Isotropic Scattering and Its Diffusion Limit. SIAM Journal of Scientific Computing, 2008, 30, 1992-2017.	1.3	6
130	Asymptoticâ€preserving schemes for kinetic–fluid modeling of disperse twoâ€phase flows with variable fluid density. International Journal for Numerical Methods in Fluids, 2014, 75, 81-102.	0.9	6
131	A study of Landau damping with random initial inputs. Journal of Differential Equations, 2019, 266, 1922-1945.	1.1	6
132	Moving-Water Equilibria Preserving Partial Relaxation Scheme for the Saint-Venant System. SIAM Journal of Scientific Computing, 2020, 42, A2206-A2229.	1.3	6
133	Convergence toward equilibrium of the first-order consensus model with random batch interactions. Journal of Differential Equations, 2021, 302, 585-616.	1.1	6
134	On the mean field limit of the Random Batch Method for interacting particle systems. Science China Mathematics, 2022, 65, 169-202.	0.8	6
135	Computational high frequency wave diffraction by a corner via the Liouville equation and geometric theory of diffraction. Kinetic and Related Models, 2011, 4, 295-316.	0.5	6
136	A diffusive subcharacteristic condition for hyperbolic systems with diffusive relaxation. Transport Theory and Statistical Physics, 2000, 29, 583-593.	0.4	5
137	Wave patterns, stability, and slow motions in inviscid and viscous hyperbolic equations with stiff reaction terms. Journal of Differential Equations, 2003, 189, 267-291.	1.1	5
138	THE VLASOV–POISSON EQUATIONS AS THE SEMICLASSICAL LIMIT OF THE SCHRÖDINGER–POISSON EQUATIONS: A NUMERICAL STUDY. Journal of Hyperbolic Differential Equations, 2008, 05, 569-587.	0.3	5
139	A level set method for the semiclassical limit of the Schrödinger equation with discontinuous potentials. Journal of Computational Physics, 2010, 229, 7440-7455.	1.9	5
140	Quantum hydrodynamic approximations to the finite temperature trapped Bose gases. Physica D: Nonlinear Phenomena, 2018, 380-381, 45-57.	1.3	5
141	Uniform error estimates for the random batch method to the firstâ€order consensus models with antisymmetric interaction kernels. Studies in Applied Mathematics, 2021, 146, 983-1022.	1.1	5
142	Uniform-in-time error estimate of the random batch method for the Cucker–Smale model. Mathematical Models and Methods in Applied Sciences, 2021, 31, 1099-1135.	1.7	5
143	A domain decomposition method for a two-scale transport equation with energy flux conserved at the interface. Kinetic and Related Models, 2008, 1, 65-84.	0.5	5
144	A hybrid Schrödinger/Gaussian beam solver for quantum barriers and surface hopping. Kinetic and Related Models, 2011, 4, 1097-1120.	0.5	5

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145	Random Batch Methods for Classical and Quantum Interacting Particle Systems and Statistical Samplings. Modeling and Simulation in Science, Engineering and Technology, 2022, , 153-200.	0.4	5
146	Quantum simulation in the semi-classical regime. Quantum - the Open Journal for Quantum Science, 0, 6, 739.	0.0	5
147	Error estimates on the random projection methods for hyperbolic conservation laws with stiff reaction terms. Applied Numerical Mathematics, 2002, 43, 315-333.	1.2	4
148	A Gaussian Beam Method for High Frequency Solution of Symmetric Hyperbolic Systems with Polarized Waves. Multiscale Modeling and Simulation, 2015, 13, 733-765.	0.6	4
149	The Landau-Zener Transition and the Surface Hopping Method for the 2D Dirac Equation for Graphene. Communications in Computational Physics, 2017, 21, 313-357.	0.7	4
150	A High Order Stochastic Asymptotic Preserving Scheme for Chemotaxis Kinetic Models with Random Inputs. Multiscale Modeling and Simulation, 2018, 16, 1884-1915.	0.6	4
151	Recent Computational Methods for High Frequency Waves in Heterogeneous Media. Series in Contemporary Applied Mathematics, 2009, , 49-64.	0.8	4
152	The Vlasov–Fokker–Planck equation with high dimensional parametric forcing term. Numerische Mathematik, 2022, 150, 479-519.	0.9	4
153	Entropic sub-cell shock capturing schemes via Jin-Xin relaxation and Climm front sampling for scalar conservation laws. Mathematics of Computation, 2017, 87, 1083-1126.	1.1	3
154	The Discrete Stochastic Galerkin Method for Hyperbolic Equations with Non-smooth and Random Coefficients. Journal of Scientific Computing, 2018, 74, 97-121.	1.1	3
155	Gaussian wave packet transform based numerical scheme for the semi-classical SchrĶdinger equation with random inputs. Journal of Computational Physics, 2020, 401, 109015.	1.9	3
156	A Stochastic Galerkin Method for the Fokker–Planck–Landau Equation with Random Uncertainties. Springer Proceedings in Mathematics and Statistics, 2018, , 1-19.	0.1	3
157	Front motion in multi-dimensional viscous conservation laws with stiff source terms driven by mean curvature and variation of front thickness. Quarterly of Applied Mathematics, 2003, 61, 701-721.	0.5	3
158	The Gaussian beam method for the wigner equation with discontinuous potentials. Inverse Problems and Imaging, 2013, 7, 1051-1074.	0.6	3
159	A spatial-temporal asymptotic preserving scheme for radiation magnetohydrodynamics in the equilibrium and non-equilibrium diffusion limit. Journal of Computational Physics, 2022, 452, 110895.	1.9	3
160	l 1-error estimates on the immersed interface upwind scheme for linear convection equations with piecewise constant coefficients: A simple proof. Science China Mathematics, 2013, 56, 2773-2782.	0.8	2
161	A local sensitivity analysis for the hydrodynamic Cucker-Smale model with random inputs. Journal of Differential Equations, 2020, 268, 636-679.	1.1	2
162	Local Sensitivity Analysis for the KuramotoDaido Model with Random Inputs in a Large Coupling Regime. SIAM Journal on Mathematical Analysis, 2020, 52, 2000-2040.	0.9	2

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163	On the multi-species Boltzmann equation with uncertainty and its stochastic Galerkin approximation. ESAIM: Mathematical Modelling and Numerical Analysis, 2021, 55, 1323-1345.	0.8	2
164	MATHEMATICAL ANALYSIS AND NUMERICAL METHODS FOR MULTISCALE KINETIC EQUATIONS WITH UNCERTAINTIES. , 2019, , .		2
165	Accurate and efficient simulations of Hamiltonian mechanical systems with discontinuous potentials. Journal of Computational Physics, 2022, 450, 110846.	1.9	2
166	On the Random Batch Method for Second Order Interacting Particle Systems. Multiscale Modeling and Simulation, 2022, 20, 741-768.	0.6	2
167	A Particle Method for the Semiclassical Limit of the SchrĶdinger Equation and the VlasovPoisson Equations. SIAM Journal on Numerical Analysis, 2012, 50, 3259-3279.	1.1	1
168	Computing high frequency solutions of symmetric hyperbolic systems with polarized waves. Communications in Mathematical Sciences, 2015, 13, 1001-1024.	0.5	1
169	Nonequilibrium hypersonic flows simulations with asymptotic-preserving Monte Carlo methods. , 2014, , .		0
170	SchrĶdinger Equation: Computation. , 2015, , 1299-1301.		0
171	A Micro-Macro Method for a Kinetic Graphene Model in One Space Dimension. Multiscale Modeling and Simulation, 2020, 18, 444-474.	0.6	0
172	Collective Dynamics of Opposing Groups with Stochastic Communication. Vietnam Journal of Mathematics, 2021, 49, 619-636.	0.4	0
173	The Random Projection Method for Stiff Multi-species Detonation Computation. , 2001, , 139-148.		0
174	Bloch Decomposition-Based Method for High Frequency Waves in Periodic Media. Series in Contemporary Applied Mathematics, 2010, , 161-188.	0.8	0