

# Kun Xu

## List of Publications by Year in descending order

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252  
papers

7,562  
citations

53794

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69250

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262  
docs citations

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times ranked

1772  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Gas-Kinetic BGK Scheme for the Navier–Stokes Equations and Its Connection with Artificial Dissipation and Godunov Method. <i>Journal of Computational Physics</i> , 2001, 171, 289-335.	3.8	566
2	A unified gas-kinetic scheme for continuum and rarefied flows. <i>Journal of Computational Physics</i> , 2010, 229, 7747-7764.	3.8	449
3	Discrete unified gas kinetic scheme for all Knudsen number flows: Low-speed isothermal case. <i>Physical Review E</i> , 2013, 88, 033305.	2.1	289
4	Numerical Hydrodynamics from Gas-Kinetic Theory. <i>Journal of Computational Physics</i> , 1993, 109, 53-66.	3.8	187
5	Discrete unified gas kinetic scheme for all Knudsen number flows. II. Thermal compressible case. <i>Physical Review E</i> , 2015, 91, 033313.	2.1	183
6	A multidimensional gas-kinetic BGK scheme for hypersonic viscous flow. <i>Journal of Computational Physics</i> , 2005, 203, 405-421.	3.8	168
7	A Unified Gas-Kinetic Scheme for Continuum and Rarefied Flows II: Multi-Dimensional Cases. <i>Communications in Computational Physics</i> , 2012, 12, 662-690.	1.7	141
8	Microchannel flow in the slip regime: gas-kinetic BGK–Burnett solutions. <i>Journal of Fluid Mechanics</i> , 2004, 513, 87-110.	3.4	129
9	Gas-Kinetic Finite Volume Methods, Flux-Vector Splitting, and Artificial Diffusion. <i>Journal of Computational Physics</i> , 1995, 120, 48-65.	3.8	126
10	Numerical Navier-Stokes Solutions from Gas Kinetic Theory. <i>Journal of Computational Physics</i> , 1994, 114, 9-17.	3.8	125
11	A Well-Balanced Gas-Kinetic Scheme for the Shallow-Water Equations with Source Terms. <i>Journal of Computational Physics</i> , 2002, 178, 533-562.	3.8	121
12	A comparative study of the LBE and GKS methods for 2D near incompressible laminar flows. <i>Journal of Computational Physics</i> , 2008, 227, 4955-4976.	3.8	120
13	A unified gas kinetic scheme with moving mesh and velocity space adaptation. <i>Journal of Computational Physics</i> , 2012, 231, 6643-6664.	3.8	116
14	Implicit unified gas-kinetic scheme for steady state solutions in all flow regimes. <i>Journal of Computational Physics</i> , 2016, 315, 16-38.	3.8	92
15	A High-Order Gas-Kinetic Method for Multidimensional Ideal Magnetohydrodynamics. <i>Journal of Computational Physics</i> , 2000, 165, 69-88.	3.8	86
16	A high-order gas-kinetic Navier–Stokes flow solver. <i>Journal of Computational Physics</i> , 2010, 229, 6715-6731.	3.8	86
17	An efficient and accurate two-stage fourth-order gas-kinetic scheme for the Euler and Navier–Stokes equations. <i>Journal of Computational Physics</i> , 2016, 326, 197-221.	3.8	84
18	Discrete unified gas kinetic scheme on unstructured meshes. <i>Computers and Fluids</i> , 2016, 127, 211-225.	2.5	83

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19	The kinetic scheme for the full-Burnett equations. <i>Journal of Computational Physics</i> , 2004, 201, 315-332.	3.8	82
20	A Unified Gas-Kinetic Scheme for Continuum and Rarefied Flows III: Microflow Simulations. <i>Communications in Computational Physics</i> , 2013, 14, 1147-1173.	1.7	80
21	Unified gas-kinetic scheme for diatomic molecular simulations in all flow regimes. <i>Journal of Computational Physics</i> , 2014, 259, 96-113.	3.8	77
22	Discrete unified gas kinetic scheme for multiscale heat transfer based on the phonon Boltzmann transport equation. <i>International Journal of Heat and Mass Transfer</i> , 2016, 102, 944-958.	4.8	77
23	Lattice Boltzmann method and gas-kinetic BGK scheme in the low-Mach number viscous flow simulations. <i>Journal of Computational Physics</i> , 2003, 190, 100-117.	3.8	76
24	A unified gas-kinetic scheme for continuum and rarefied flows IV: Full Boltzmann and model equations. <i>Journal of Computational Physics</i> , 2016, 314, 305-340.	3.8	75
25	A Gas-Kinetic Scheme for Multimaterial Flows and Its Application in Chemical Reactions. <i>Journal of Computational Physics</i> , 2000, 163, 349-375.	3.8	73
26	On the apparent permeability of porous media in rarefied gas flows. <i>Journal of Fluid Mechanics</i> , 2017, 822, 398-417.	3.4	68
27	Super-Burnett solutions for Poiseuille flow. <i>Physics of Fluids</i> , 2003, 15, 2077-2080.	4.0	67
28	A Comparative Study of LBE and DUGKS Methods for Nearly Incompressible Flows. <i>Communications in Computational Physics</i> , 2015, 17, 657-681.	1.7	67
29	BGK-Based Scheme for Multicomponent Flow Calculations. <i>Journal of Computational Physics</i> , 1997, 134, 122-133.	3.8	65
30	Dissipative mechanism in Godunov-type schemes. <i>International Journal for Numerical Methods in Fluids</i> , 2001, 37, 1-22.	1.6	65
31	An improved unified gas-kinetic scheme and the study of shock structures. <i>IMA Journal of Applied Mathematics</i> , 2011, 76, 698-711.	1.6	65
32	An asymptotic preserving unified gas kinetic scheme for gray radiative transfer equations. <i>Journal of Computational Physics</i> , 2015, 285, 265-279.	3.8	62
33	Low-Speed Flow Simulation by the Gas-Kinetic Scheme. <i>Journal of Computational Physics</i> , 1999, 150, 17-39.	3.8	59
34	A Unified Gas Kinetic Scheme for Continuum and Rarefied Flows V: Multiscale and Multi-Component Plasma Transport. <i>Communications in Computational Physics</i> , 2017, 22, 1175-1223.	1.7	59
35	Unified gas-kinetic scheme with multigrid convergence for rarefied flow study. <i>Physics of Fluids</i> , 2017, 29, .	4.0	58
36	Gas-Kinetic Theory-Based Flux Splitting Method for Ideal Magnetohydrodynamics. <i>Journal of Computational Physics</i> , 1999, 153, 334-352.	3.8	57

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37	Regularization of the Chapman-Enskog expansion and its description of shock structure. <i>Physics of Fluids</i> , 2002, 14, L17-L20.	4.0	53
38	Current trends and key considerations in the clinical translation of targeted fluorescent probes for intraoperative navigation. <i>Aggregate</i> , 2021, 2, e23.	9.9	53
39	A Runge-Kutta discontinuous Galerkin method for viscous flow equations. <i>Journal of Computational Physics</i> , 2007, 224, 1223-1242.	3.8	51
40	A comparative study of an asymptotic preserving scheme and unified gas-kinetic scheme in continuum flow limit. <i>Journal of Computational Physics</i> , 2015, 288, 52-65.	3.8	51
41	Unified gas-kinetic wave-particle methods I: Continuum and rarefied gas flow. <i>Journal of Computational Physics</i> , 2020, 401, 108977.	3.8	51
42	Photonic ultrawideband monocycle pulse generation using a single electro-optic modulator. <i>Optics Letters</i> , 2008, 33, 288.	3.3	50
43	Unified gas-kinetic wave-particle methods. II. Multiscale simulation on unstructured mesh. <i>Physics of Fluids</i> , 2019, 31, .	4.0	49
44	Progress of discrete unified gas-kinetic scheme for multiscale flows. <i>Advances in Aerodynamics</i> , 2021, 3, .	2.5	46
45	A three-dimensional multidimensional gas-kinetic scheme for the Navier-Stokes equations under gravitational fields. <i>Journal of Computational Physics</i> , 2007, 226, 2003-2027.	3.8	45
46	The Effect of MMT/Modified MMT on the Structure and Performance of the Superabsorbent Composite. <i>Polymer Bulletin</i> , 2008, 60, 69-78.	3.3	45
47	A Well-Balanced Symplecticity-Preserving Gas-Kinetic Scheme for Hydrodynamic Equations under Gravitational Field. <i>SIAM Journal of Scientific Computing</i> , 2011, 33, 2356-2381.	2.8	45
48	A multi-dimensional high-order discontinuous Galerkin method based on gas kinetic theory for viscous flow computations. <i>Journal of Computational Physics</i> , 2015, 292, 176-193.	3.8	45
49	Application of Gas-Kinetic Scheme with Kinetic Boundary Conditions in Hypersonic Flow. <i>AIAA Journal</i> , 2005, 43, 2170-2176.	2.6	44
50	A unified moving grid gas-kinetic method in Eulerian space for viscous flow computation. <i>Journal of Computational Physics</i> , 2007, 222, 155-175.	3.8	43
51	Comparison of the generalized Riemann solver and the gas-kinetic scheme for inviscid compressible flow simulations. <i>Journal of Computational Physics</i> , 2011, 230, 5080-5099.	3.8	43
52	An asymptotic preserving unified gas kinetic scheme for frequency-dependent radiative transfer equations. <i>Journal of Computational Physics</i> , 2015, 302, 222-238.	3.8	43
53	A paradigm for modeling and computation of gas dynamics. <i>Physics of Fluids</i> , 2017, 29, 026101.	4.0	41
54	A compact fourth-order gas-kinetic scheme for the Euler and Navier-Stokes equations. <i>Journal of Computational Physics</i> , 2018, 372, 446-472.	3.8	41

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55	Gas-kinetic schemes for the compressible Euler equations: Positivity-preserving analysis. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 1999, 50, 258.	1.4	40
56	A high-order multidimensional gas-kinetic scheme for hydrodynamic equations. <i>Science China Technological Sciences</i> , 2013, 56, 2370-2384.	4.0	40
57	A gas-kinetic scheme for shallow-water equations with source terms. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2004, 55, 365-382.	1.4	39
58	Multiple temperature kinetic model and its applications to micro-scale gas flows. <i>Computers and Fluids</i> , 2012, 67, 115-122.	2.5	39
59	A family of high-order gas-kinetic schemes and its comparison with Riemann solver based high-order methods. <i>Journal of Computational Physics</i> , 2018, 356, 150-173.	3.8	39
60	A three-dimensional unified gas-kinetic wave-particle solver for flow computation in all regimes. <i>Physics of Fluids</i> , 2020, 32, .	4.0	39
61	Multiple temperature kinetic model and gas-kinetic method for hypersonic non-equilibrium flow computations. <i>Journal of Computational Physics</i> , 2008, 227, 6779-6794.	3.8	38
62	An implicit unified gas-kinetic scheme for unsteady flow in all Knudsen regimes. <i>Journal of Computational Physics</i> , 2019, 386, 190-217.	3.8	38
63	Ultra-wideband pulse generation with flexible pulse shape and polarity control using a Sagnac-interferometer-based intensity modulator. <i>Optics Express</i> , 2007, 15, 18156.	3.4	37
64	A Well-balanced Kinetic Scheme for Gas Dynamic Equations under Gravitational Field. <i>Advances in Applied Mathematics and Mechanics</i> , 2010, 2, 200-210.	1.2	37
65	Grid-converged solution and analysis of the unsteady viscous flow in a two-dimensional shock tube. <i>Physics of Fluids</i> , 2018, 30, .	4.0	36
66	A Boltzmann based model for open channel flows. <i>International Journal for Numerical Methods in Fluids</i> , 2001, 35, 449-494.	1.6	35
67	A compressible Navier-Stokes flow solver with scalar transport. <i>Journal of Computational Physics</i> , 2005, 204, 692-714.	3.8	34
68	Spontaneous volume transition of polyampholyte nanocomposite hydrogels based on pure electrostatic interaction. <i>Journal of Colloid and Interface Science</i> , 2008, 321, 272-278.	9.4	34
69	A third-order compact gas-kinetic scheme on unstructured meshes for compressible Navier-Stokes solutions. <i>Journal of Computational Physics</i> , 2016, 318, 327-348.	3.8	34
70	Rayleigh-Bénard simulation using the gas-kinetic Bhatnagar-Gross-Krook scheme in the incompressible limit. <i>Physical Review E</i> , 1999, 60, 464-470.	2.1	33
71	BGK-Based Schemes for the Simulation of Compressible Flow. <i>International Journal of Computational Fluid Dynamics</i> , 1996, 7, 213-235.	1.2	32
72	Unified gas-kinetic scheme for diatomic molecular flow with translational, rotational, and vibrational modes. <i>Journal of Computational Physics</i> , 2017, 350, 237-259.	3.8	32

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73	A unified gas-kinetic scheme for continuum and rarefied flows VI: Dilute disperse gas-particle multiphase system. <i>Journal of Computational Physics</i> , 2019, 386, 264-295.	3.8	32
74	Linear and nonlinear analysis of shallow wakes. <i>Journal of Fluid Mechanics</i> , 2006, 548, 309.	3.4	31
75	A Comparison and Unification of Ellipsoidal Statistical and Shakhov BGK Models. <i>Advances in Applied Mathematics and Mechanics</i> , 2015, 7, 245-266.	1.2	31
76	Projection Dynamics in Godunov-Type Schemes. <i>Journal of Computational Physics</i> , 1998, 142, 412-427.	3.8	30
77	Nonequilibrium Bhatnagar-Gross-Krook model for nitrogen shock structure. <i>Physics of Fluids</i> , 2004, 16, 3824-3827.	4.0	29
78	Compact higher-order gas-kinetic schemes with spectral-like resolution for compressible flow simulations. <i>Advances in Aerodynamics</i> , 2019, 1, .	2.5	29
79	A multidimensional unified gas-kinetic scheme for radiative transfer equations on unstructured mesh. <i>Journal of Computational Physics</i> , 2017, 351, 455-472.	3.8	28
80	Implicit high-order gas kinetic scheme for turbulence simulation. <i>Aerospace Science and Technology</i> , 2019, 92, 958-971.	4.8	28
81	Unified gas-kinetic wave-particle methods III: Multiscale photon transport. <i>Journal of Computational Physics</i> , 2020, 408, 109280.	3.8	27
82	Multiple-temperature kinetic model for continuum and near continuum flows. <i>Physics of Fluids</i> , 2007, 19, 016101.	4.0	26
83	One-Dimensional Multiple-Temperature Gas-Kinetic Bhatnagar-Gross-Krook Scheme for Shock Wave Computation. <i>AIAA Journal</i> , 2008, 46, 1054-1062.	2.6	26
84	An adaptive grid method for two-dimensional viscous flows. <i>Journal of Computational Physics</i> , 2006, 218, 68-81.	3.8	24
85	An Implicit Unified Gas Kinetic Scheme for Radiative Transfer with Equilibrium and Non-Equilibrium Diffusive Limits. <i>Communications in Computational Physics</i> , 2017, 22, 889-912.	1.7	24
86	A HWENO reconstruction based high-order compact gas-kinetic scheme on unstructured mesh. <i>Journal of Computational Physics</i> , 2020, 410, 109367.	3.8	24
87	A multi-dimensional high-order DG-ALE method based on gas-kinetic theory with application to oscillating bodies. <i>Journal of Computational Physics</i> , 2016, 316, 700-720.	3.8	23
88	Simplification of the unified gas kinetic scheme. <i>Physical Review E</i> , 2016, 94, 023313.	2.1	23
89	A velocity-space adaptive unified gas kinetic scheme for continuum and rarefied flows. <i>Journal of Computational Physics</i> , 2020, 415, 109535.	3.8	23
90	Multiple translational temperature model and its shock structure solution. <i>Physical Review E</i> , 2005, 71, 056308.	2.1	22

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91	Remapping-free ALE-type kinetic method for flow computations. <i>Journal of Computational Physics</i> , 2009, 228, 3154-3171.	3.8	21
92	On the remedy against shock anomalies in kinetic schemes. <i>Journal of Computational Physics</i> , 2013, 255, 106-129.	3.8	21
93	A well-balanced unified gas-kinetic scheme for multiscale flow transport under gravitational field. <i>Journal of Computational Physics</i> , 2017, 332, 475-491.	3.8	21
94	Two-stage fourth-order gas-kinetic scheme for three-dimensional Euler and Navier-Stokes solutions. <i>International Journal of Computational Fluid Dynamics</i> , 2018, 32, 395-411.	1.2	21
95	Three dimensional high-order gas-kinetic scheme for supersonic isotropic turbulence I: Criterion for direct numerical simulation. <i>Computers and Fluids</i> , 2019, 192, 104273.	2.5	21
96	Modeling and computation for non-equilibrium gas dynamics: Beyond single relaxation time kinetic models. <i>Physics of Fluids</i> , 2021, 33, .	4.0	21
97	All-Optical Logic or Gate Exploiting Nonlinear Polarization Rotation in an SOA and Red-Shifted Sideband Filtering. <i>IEEE Photonics Technology Letters</i> , 2007, 19, 33-35.	2.5	20
98	Comparison of Fifth-Order WENO Scheme and Finite Volume WENO-Gas-Kinetic Scheme for Inviscid and Viscous Flow Simulation. <i>Communications in Computational Physics</i> , 2013, 14, 599-620.	1.7	20
99	Unified gas-kinetic wave-particle methods IV: multi-species gas mixture and plasma transport. <i>Advances in Aerodynamics</i> , 2021, 3, .	2.5	20
100	A Boltzmann-based mesoscopic model for contaminant transport in flow systems. <i>Advances in Water Resources</i> , 2001, 24, 531-550.	3.8	19
101	The numerical study of roll-waves in inclined open channels and solitary wave run-up. <i>International Journal for Numerical Methods in Fluids</i> , 2006, 50, 1003-1027.	1.6	19
102	A Two-Stage Fourth-Order Gas-Kinetic Scheme for Compressible Multicomponent Flows. <i>Communications in Computational Physics</i> , 2017, 22, 1123-1149.	1.7	19
103	Discontinuous Galerkin BGK Method for Viscous Flow Equations: One-Dimensional Systems. <i>SIAM Journal of Scientific Computing</i> , 2004, 25, 1941-1963.	2.8	18
104	A new gas-kinetic scheme based on analytical solutions of the BGK equation. <i>Journal of Computational Physics</i> , 2013, 234, 524-539.	3.8	18
105	A Compact Third-Order Gas-Kinetic Scheme for Compressible Euler and Navier-Stokes Equations. <i>Communications in Computational Physics</i> , 2015, 18, 985-1011.	1.7	18
106	ANALYSIS AND IMPLEMENTATION OF THE GAS-KINETIC BGK SCHEME FOR COMPUTATIONAL GAS DYNAMICS. <i>International Journal for Numerical Methods in Fluids</i> , 1997, 25, 21-49.	1.6	17
107	Manganese-tuned chemical etching of a platinum-copper nanocatalyst with platinum-rich surfaces. <i>Journal of Power Sources</i> , 2016, 304, 74-80.	7.8	17
108	Application of perturbation theory to chain and polar fluids. <i>Fluid Phase Equilibria</i> , 1998, 142, 55-66.	2.5	16

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109	The study of sound wave propagation in rarefied gases using unified gas-kinetic scheme. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012, 28, 1022-1029.	3.4	16
110	A third-order gas-kinetic scheme for three-dimensional inviscid and viscous flow computations. <i>Computers and Fluids</i> , 2015, 119, 250-260.	2.5	16
111	Physical modeling and numerical studies of three-dimensional non-equilibrium multi-temperature flows. <i>Physics of Fluids</i> , 2018, 30, 126104.	4.0	16
112	An investigation of non-equilibrium heat transport in a gas system under external force field. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 362-379.	4.8	16
113	A Gas-Kinetic Scheme for the Euler Equations with Heat Transfer. <i>SIAM Journal of Scientific Computing</i> , 1999, 20, 1317-1335.	2.8	15
114	NUMERICAL SIMULATIONS OF RESONANT OSCILLATIONS IN A TUBE. <i>Numerical Heat Transfer; Part A: Applications</i> , 2001, 40, 37-54.	2.1	15
115	A Few Benchmark Test Cases for Higher-Order Euler Solvers. <i>Numerical Mathematics</i> , 2017, 10, 711-736.	1.3	15
116	The dynamic mechanism of a moving Crookes radiometer. <i>Physics of Fluids</i> , 2012, 24, .	4.0	14
117	Simplification of the flux function for a high-order gas-kinetic evolution model. <i>Journal of Computational Physics</i> , 2017, 339, 146-162.	3.8	14
118	High-order gas-kinetic scheme on three-dimensional unstructured meshes for compressible flows. <i>Physics of Fluids</i> , 2021, 33, .	4.0	14
119	A new class of gas-kinetic relaxation schemes for the compressible Euler equations. <i>Journal of Statistical Physics</i> , 1995, 81, 147-164.	1.2	13
120	Dispersion-Compensation Schemes for 160-Gb/s 1200-km Transmission by Optical Phase Conjugation. <i>Journal of Lightwave Technology</i> , 2007, 25, 1986-1995.	4.6	13
121	High-order kinetic flux vector splitting schemes in general coordinates for ideal quantum gas dynamics. <i>Journal of Computational Physics</i> , 2007, 227, 967-982.	3.8	13
122	Cartesian grid method for gas kinetic scheme on irregular geometries. <i>Journal of Computational Physics</i> , 2016, 326, 862-877.	3.8	13
123	High-order gas-kinetic scheme with parallel computation for direct numerical simulation of turbulent flows. <i>Journal of Computational Physics</i> , 2022, 448, 110739.	3.8	13
124	A compact high-order gas-kinetic scheme on unstructured mesh for acoustic and shock wave computations. <i>Journal of Computational Physics</i> , 2022, 449, 110812.	3.8	13
125	Gas-Kinetic Scheme for Continuum and Near-Continuum Hypersonic Flows. <i>Journal of Spacecraft and Rockets</i> , 2007, 44, 1232-1240.	1.9	12
126	Multiscale gas-kinetic simulation for continuum and near-continuum flows. <i>Physical Review E</i> , 2007, 75, 016306.	2.1	12



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127	Gas exchange and resource utilization in two alpine oaks at different altitudes in the Hengduan Mountains. Canadian Journal of Forest Research, 2007, 37, 1184-1193.	1.7	12
128	Unified gas-kinetic wave-particle methods V: Diatomic molecular flow. Journal of Computational Physics, 2021, 442, 110496.	3.8	12
129	Title is missing!. Journal of Scientific Computing, 2000, 15, 19-28.	2.3	11
130	A novel method to achieve various equivalent chirp profiles in sampled Bragg gratings using uniform-period phase masks. Optics Communications, 2002, 205, 71-75.	2.1	11
131	A DGBGK scheme based on WENO limiters for viscous and inviscid flows. Journal of Computational Physics, 2008, 227, 5799-5815.	3.8	11
132	Efficient kinetic schemes for steady and unsteady flow simulations on unstructured meshes. Journal of Computational Physics, 2008, 227, 3015-3031.	3.8	11
133	Experimental demonstration of polarization multiplexing for simultaneously providing broadband wireless and wired access. Optics Communications, 2008, 281, 2806-2810.	2.1	11
134	An Acoustic and Shock Wave Capturing Compact High-Order Gas-Kinetic Scheme with Spectral-Like Resolution. International Journal of Computational Fluid Dynamics, 2020, 34, 731-756.	1.2	11
135	Fourth-order gas-kinetic scheme for turbulence simulation with multi-dimensional WENO reconstruction. Computers and Fluids, 2021, 221, 104927.	2.5	11
136	A Three Dimensional Gas-Kinetic Scheme with Moving Mesh for Low-Speed Viscous Flow Computations. Advances in Applied Mathematics and Mechanics, 2010, 2, 746-762.	1.2	11
137	A Slope-Update Scheme for Compressible Flow Simulation. Journal of Computational Physics, 2002, 178, 252-259.	3.8	10
138	Nonequilibrium Relaxation in High Speed Flows. , 2004, , .		10
139	A generalized Bhatnagarâ€“Grossâ€“Krook model for nonequilibrium flows. Physics of Fluids, 2008, 20, 026101.	4.0	10
140	Onsager's cross coupling effects in gas flows confined to micro-channels. Physical Review Fluids, 2016, 1, .	2.5	10
141	A unified gas-kinetic scheme for micro flow simulation based on linearized kinetic equation. Advances in Aerodynamics, 2020, 2, .	2.5	10
142	Gas-kinetic relaxation (BGK-type) schemes for the compressible Euler equations. , 1995, , .		9
143	Connection Between Lattice-Boltzmann Equation and Beam Scheme. International Journal of Modern Physics C, 1998, 09, 1177-1187.	1.7	9
144	Stability and consistency of kinetic upwinding for advectionâ€“diffusion equations. IMA Journal of Numerical Analysis, 2006, 26, 686-722.	2.9	9

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145	Unified gas-kinetic scheme for multi-species non-equilibrium flow. , 2014, , .		9
146	Systematic study of packaging designs on the performance of CMOS thermoresistive micro calorimetric flow sensors. Journal of Micromechanics and Microengineering, 2017, 27, 085001.	2.6	9
147	High-order gas-kinetic scheme with three-dimensional WENO reconstruction for the Euler and Navier-Stokes solutions. Computers and Fluids, 2020, 198, 104401.	2.5	9
148	High-order gas-kinetic scheme for large eddy simulation of turbulent channel flows. Physics of Fluids, 2021, 33, 125102.	4.0	9
149	A gas-kinetic scheme for reactive flows. Computers and Fluids, 2000, 29, 725-748.	2.5	8
150	A Kinetic Method for Hyperbolicâ€“Elliptic Equations and Its Application in Two-Phase Flow. Journal of Computational Physics, 2001, 166, 383-399.	3.8	8
151	Entropy analysis of kinetic flux vector splitting schemes for the compressible Euler equations. Zeitschrift Fur Angewandte Mathematik Und Physik, 2001, 52, 62-78.	1.4	8
152	Single-span transmission of WDM RZ-DPSK signal over 310-km standard SMF without using FEC and remote-pumping. IEEE Photonics Technology Letters, 2005, 17, 2209-2211.	2.5	8
153	Computational Fluid Dynamics Based on the Unified Coordinates. , 2012, , .		8
154	To overcome memory barrier of kinetic solvers for non-equilibrium flow study. Science Bulletin, 2017, 62, 99-101.	9.0	8
155	Multiscale Simulation for the System of Radiation Hydrodynamics. Journal of Scientific Computing, 2020, 85, 1.	2.3	8
156	The study of shallow water flow with bottom topography by high-order compact gas-kinetic scheme on unstructured mesh. Physics of Fluids, 2021, 33, .	4.0	8
157	Comparison of the performance of high-order schemes based on the gas-kinetic and HLLC fluxes. Journal of Computational Physics, 2022, 448, 110706.	3.8	8
158	Unified gas-kinetic waveâ€“particle method for gasâ€“particle two-phase flow from dilute to dense solid particle limit. Physics of Fluids, 2022, 34, .	4.0	8
159	Modified gas-kinetic scheme for shock structures in argon. Progress in Computational Fluid Dynamics, 2008, 8, 97.	0.2	7
160	Kinetic Node-Pair Formulation for Two-Dimensional Flows from Continuum to Transitional Regime. AIAA Journal, 2013, 51, 784-796.	2.6	7
161	A unified gas-kinetic scheme for axisymmetric flow in all Knudsen number regimes. Journal of Computational Physics, 2018, 366, 144-169.	3.8	7
162	Limitation principle for computational fluid dynamics. Shock Waves, 2019, 29, 1083-1102.	1.9	7

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163	A unified gas-kinetic scheme for multiscale and multicomponent flow transport. Applied Mathematics and Mechanics (English Edition), 2019, 40, 355-372.	3.6	7
164	Ray effect in rarefied flow simulation. Journal of Computational Physics, 2020, 422, 109751.	3.8	7
165	High-order ALE gas-kinetic scheme with WENO reconstruction. Journal of Computational Physics, 2020, 417, 109558.	3.8	7
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