Kun Xu

List of Publications by Year
in descending order

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252	7,562	53794	69250
papers	citations	45 h-index	77 g-index

262	262	262	1772
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-order gas-kinetic scheme with parallel computation for direct numerical simulation of turbulent flows. Journal of Computational Physics, 2022, 448, 110739.	3.8	13
2	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
3	A compact high-order gas-kinetic scheme on unstructured mesh for acoustic and shock wave computations. Journal of Computational Physics, 2022, 449, 110812.	3.8	13
4	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
5	A p-multigrid compact gas-kinetic scheme for steady-state acceleration. Computers and Fluids, 2022, , 105489.	2.5	1
6	Progress of the unified wave-particle methods for non-equilibrium flows from continuum to rarefied regimes. Acta Mechanica Sinica/Lixue Xuebao, 2022, 38, .	3.4	3
7	Modeling and computation for non-equilibrium gas dynamics: Beyond single relaxation time kinetic models. Physics of Fluids, 2021, 33, .	4.0	21
8	Progress of discrete unified gas-kinetic scheme for multiscale flows. Advances in Aerodynamics, 2021, 3, .	2.5	46
9	Unified gas kinetic schemes for the radiation transfer equations. Scientia Sinica Mathematica, 2021, 51, 799.	0.2	0
10	Unified gas-kinetic wave-particle methods IV: multi-species gas mixture and plasma transport. Advances in Aerodynamics, 2021, 3, .	2.5	20
11	Fourth-order gas-kinetic scheme for turbulence simulation with multi-dimensional WENO reconstruction. Computers and Fluids, 2021, 221, 104927.	2.5	11
12	An Arbitrary-Lagrangian-Eulerian High-Order Gas-Kinetic Scheme for Three-Dimensional Computations. Journal of Scientific Computing, 2021, 88, 1.	2.3	2
13	GKS and UGKS for High-Speed Flows. Aerospace, 2021, 8, 141.	2.2	6
14	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
15	Three dimensional high-order gas-kinetic scheme for supersonic isotropic turbulence II: Coarse-graining analysis of compressible K budget. Journal of Computational Physics, 2021, 439, 110402.	3.8	6
16	High-order gas-kinetic scheme on three-dimensional unstructured meshes for compressible flows. Physics of Fluids, 2021, 33, .	4.0	14
17	Unified gas-kinetic wave-particle methods V: Diatomic molecular flow. Journal of Computational Physics, 2021, 442, 110496.	3.8	12
18	Current trends and key considerations in the clinical translation of targeted fluorescent probes for intraoperative navigation. Aggregate, 2021, 2, e23.	9.9	53

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19	A Gradient Compression-Based Compact High-Order Gas-Kinetic Scheme on 3D Hybrid Unstructured Meshes. International Journal of Computational Fluid Dynamics, 2021, 35, 485-509.	1.2	4
20	High-order gas-kinetic scheme for large eddy simulation of turbulent channel flows. Physics of Fluids, 2021, 33, 125102.	4.0	9
21	Special Issue on Recent Hot Topics in Rarefied Gas Dynamics. International Journal of Computational Fluid Dynamics, 2021, 35, 563-565.	1.2	2
22	Numerical Transport Process of Splitting Kinetic Schemes in the Navierâ€“Stokesâ€“Fourier Limit. International Journal of Computational Fluid Dynamics, 2021, 35, 653-665.	1.2	2
23	Unified gas-kinetic wave-particle methods I: Continuum and rarefied gas flow. Journal of Computational Physics, 2020, 401, 108977.	3.8	51
24	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
25	Ray effect in rarefied flow simulation. Journal of Computational Physics, 2020, 422, 109751.	3.8	7
26	Multiscale Simulation for the System of Radiation Hydrodynamics. Journal of Scientific Computing, 2020, 85, 1.	2.3	8
27	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
28	A three-dimensional unified gas-kinetic wave-particle solver for flow computation in all regimes. Physics of Fluids, 2020, 32, .	4.0	39
29	High-order ALE gas-kinetic scheme with WENO reconstruction. Journal of Computational Physics, 2020, 417, 109558.	3.8	7
30	A velocity-space adaptive unified gas kinetic scheme for continuum and rarefied flows. Journal of Computational Physics, 2020, 415, 109535.	3.8	23
31	Unified gas-kinetic wave-particle methods III: Multiscale photon transport. Journal of Computational Physics, 2020, 408, 109280.	3.8	27
32	A HWENO reconstruction based high-order compact gas-kinetic scheme on unstructured mesh. Journal of Computational Physics, 2020, 410, 109367.	3.8	24
33	A unified gas-kinetic scheme for micro flow simulation based on linearized kinetic equation. Advances in Aerodynamics, 2020, 2, .	2.5	10
34	Time Implicit Unified Gas Kinetic Scheme for 3D Multi-Group Neutron Transport Simulation. Communications in Computational Physics, 2020, 28, 1189-1218.	1.7	4
35	Performance Enhancement for High-Order Gas-Kinetic Scheme Based on WENO-Adaptive-Order Reconstruction. Communications in Computational Physics, 2020, 28, 539-590.	1.7	5
36	High-Order Gas-Kinetic Scheme in Curvilinear Coordinates for the Euler and Navier-Stokes Solutions. Communications in Computational Physics, 2020, 28, 1321-1351.	1.7	1

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37	A Well-Balanced Gas Kinetic Scheme for Navier-Stokes Equations with Gravitational Potential. Communications in Computational Physics, 2020, 28, 902-926.	1.7	3
38	Fifth-Order Finite-Volume WENO on Cylindrical Grids. Lecture Notes in Computational Science and Engineering, 2020, , 637-648.	0.3	0
39	Compact higher-order gas-kinetic schemes with spectral-like resolution for compressible flow simulations. Advances in Aerodynamics, 2019, 1, .	2.5	29
40	Implicit high-order gas kinetic scheme for turbulence simulation. Aerospace Science and Technology, 2019, 92, 958-971.	4.8	28
41	Fifth order finite volume WENO in general orthogonally - curvilinear coordinates. Computers and Fluids, 2019, 190, 398-424.	2.5	6
42	Three dimensional high-order gas-kinetic scheme for supersonic isotropic turbulence I: Criterion for direct numerical simulation. Computers and Fluids, 2019, 192, 104273.	2.5	21
43	Limitation principle for computational fluid dynamics. Shock Waves, 2019, 29, 1083-1102.	1.9	7
44	Unified gas-kinetic wave-particle methods. II. Multiscale simulation on unstructured mesh. Physics of Fluids, 2019, 31, .	4.0	49
45	Multiscale Radiative Transfer in Cylindrical Coordinates. Communications on Applied Mathematics and Computation, 2019, 1, 117-139.	1.7	2
46	A unified gas-kinetic scheme for continuum and rarefied flows VI: Dilute disperse gas-particle multiphase system. Journal of Computational Physics, 2019, 386, 264-295.	3.8	32
47	A unified gas-kinetic scheme for multiscale and multicomponent flow transport. Applied Mathematics and Mechanics (English Edition), 2019, 40, 355-372.	3.6	7
48	An implicit unified gas-kinetic scheme for unsteady flow in all Knudsen regimes. Journal of Computational Physics, 2019, 386, 190-217.	3.8	38
49	An efficient high-order finite difference gas-kinetic scheme for the Euler and Navierâ€“Stokes equations. Computers and Fluids, 2018, 166, 243-252.	2.5	4
50	A unified gas-kinetic scheme for axisymmetric flow in all Knudsen number regimes. Journal of Computational Physics, 2018, 366, 144-169.	3.8	7
51	Grid-converged solution and analysis of the unsteady viscous flow in a two-dimensional shock tube. Physics of Fluids, 2018, 30, .	4.0	36
52	A family of high-order gas-kinetic schemes and its comparison with Riemann solver based high-order methods. Journal of Computational Physics, 2018, 356, 150-173.	3.8	39
53	Physical modeling and numerical studies of three-dimensional non-equilibrium multi-temperature flows. Physics of Fluids, 2018, 30, 126104.	4.0	16
54	Two-stage fourth-order gas-kinetic scheme for three-dimensional Euler and Navier-Stokes solutions. International Journal of Computational Fluid Dynamics, 2018, 32, 395-411.	1.2	21

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55	An investigation of non-equilibrium heat transport in a gas system under external force field. International Journal of Heat and Mass Transfer, 2018, 126, 362-379.	4.8	16
56	A compact fourth-order gas-kinetic scheme for the Euler and Navierâ€“Stokes equations. Journal of Computational Physics, 2018, 372, 446-472.	3.8	41
57	Application of unified gas-kinetic scheme for hypersonic non-equilibrium flow. , 2017, , .		0
58	Validation of Gas-Kinetic Scheme Solver for the Compressible and Incompressible Flows Simulation. , 2017, , .		0
59	A paradigm for modeling and computation of gas dynamics. Physics of Fluids, 2017, 29, 026101.	4.0	41
60	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
61	On the apparent permeability of porous media in rarefied gas flows. Journal of Fluid Mechanics, 2017, 822, 398-417.	3.4	68
62	Simplification of the flux function for a high-order gas-kinetic evolution model. Journal of Computational Physics, 2017, 339, 146-162.	3.8	14
63	To overcome memory barrier of kinetic solvers for non-equilibrium flow study. Science Bulletin, 2017, 62, 99-101.	9.0	8
64	A well-balanced unified gas-kinetic scheme for multiscale flow transport under gravitational field. Journal of Computational Physics, 2017, 332, 475-491.	3.8	21
65	An Implicit Unified Gas Kinetic Scheme for Radiative Transfer with Equilibrium and Non-Equilibrium Diffusive Limits. Communications in Computational Physics, 2017, 22, 889-912.	1.7	24
66	Unified gas-kinetic scheme with multigrid convergence for rarefied flow study. Physics of Fluids, 2017, 29, .	4.0	58
67	A multidimensional unified gas-kinetic scheme for radiative transfer equations on unstructured mesh. Journal of Computational Physics, 2017, 351, 455-472.	3.8	28
68	Unified gas-kinetic scheme for diatomic molecular flow with translational, rotational, and vibrational modes. Journal of Computational Physics, 2017, 350, 237-259.	3.8	32
69	A Few Benchmark Test Cases for Higher-Order Euler Solvers. Numerical Mathematics, 2017, 10, 711-736.	1.3	15
70	A gas-kinetic theory based multidimensional high-order method for the compressible Navierâ€“Stokes solutions. Acta Mechanica Sinica/Lixue Xuebao, 2017, 33, 733-741.	3.4	1
71	A Two-Stage Fourth-Order Gas-Kinetic Scheme for Compressible Multicomponent Flows. Communications in Computational Physics, 2017, 22, 1123-1149.	1.7	19
72	A Unified Gas Kinetic Scheme for Continuum and Rarefied Flows V: Multiscale and Multi-Component Plasma Transport. Communications in Computational Physics, 2017, 22, 1175-1223.	1.7	59

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73	A third-order compact gas-kinetic scheme on unstructured meshes for compressible Navierâ€“Stokes solutions. Journal of Computational Physics, 2016, 318, 327-348.	3.8	34
74	Implicit unified gas-kinetic scheme for steady state solutions in all flow regimes. Journal of Computational Physics, 2016, 315, 16-38.	3.8	92
75	A multi-dimensional high-order DG-ALE method based on gas-kinetic theory with application to oscillating bodies. Journal of Computational Physics, 2016, 316, 700-720.	3.8	23
76	An efficient and accurate two-stage fourth-order gas-kinetic scheme for the Euler and Navierâ€“Stokes equations. Journal of Computational Physics, 2016, 326, 197-221.	3.8	84
77	Cartesian grid method for gas kinetic scheme on irregular geometries. Journal of Computational Physics, 2016, 326, 862-877.	3.8	13
78	Simplification of the unified gas kinetic scheme. Physical Review E, 2016, 94, 023313.	2.1	23
79	Discrete unified gas kinetic scheme for multiscale heat transfer based on the phonon Boltzmann transport equation. International Journal of Heat and Mass Transfer, 2016, 102, 944-958.	4.8	77
80	Discrete unified gas kinetic scheme on unstructured meshes. Computers and Fluids, 2016, 127, 211-225.	2.5	83
81	A unified gas-kinetic scheme for continuum and rarefied flows IV: Full Boltzmann and model equations. Journal of Computational Physics, 2016, 314, 305-340.	3.8	75
82	Manganese-tuned chemical etching of a platinumâ€“copper nanocatalyst with platinum-rich surfaces. Journal of Power Sources, 2016, 304, 74-80.	7.8	17
83	Onsager's cross coupling effects in gas flows confined to micro-channels. Physical Review Fluids, 2016, 1, .	2.5	10
84	Preface: Special Issue on Progress in Fluid Dynamics and Simulation (PFDS). Communications in Computational Physics, 2015, 18, i-ii.	1.7	0
85	A Compact Third-Order Gas-Kinetic Scheme for Compressible Euler and Navier-Stokes Equations. Communications in Computational Physics, 2015, 18, 985-1011.	1.7	18
86	Generalized coordinate transformation and gas-kinetic scheme. Journal of Computational Physics, 2015, 287, 207-225.	3.8	6
87	An asymptotic preserving unified gas kinetic scheme for frequency-dependent radiative transfer equations. Journal of Computational Physics, 2015, 302, 222-238.	3.8	43
88	An asymptotic preserving unified gas kinetic scheme for gray radiative transfer equations. Journal of Computational Physics, 2015, 285, 265-279.	3.8	62
89	A comparative study of an asymptotic preserving scheme and unified gas-kinetic scheme in continuum flow limit. Journal of Computational Physics, 2015, 288, 52-65.	3.8	51
90	A third-order gas-kinetic scheme for three-dimensional inviscid and viscous flow computations. Computers and Fluids, 2015, 119, 250-260.	2.5	16

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91	Discrete unified gas kinetic scheme for all Knudsen number flows. II. Thermal compressible case. Physical Review E, 2015, 91, 033313.	2.1	183
92	A multi-dimensional high-order discontinuous Galerkin method based on gas kinetic theory for viscous flow computations. Journal of Computational Physics, 2015, 292, 176-193.	3.8	45
93	A Comparative Study of LBE and DUGKS Methods for Nearly Incompressible Flows. Communications in Computational Physics, 2015, 17, 657-681.	1.7	67
94	A Comparison and Unification of Ellipsoidal Statistical and Shakhov BGK Models. Advances in Applied Mathematics and Mechanics, 2015, 7, 245-266.	1.2	31
95	Direct modeling for computational fluid dynamics. Acta Mechanica Sinica/Lixue Xuebao, 2015, 31, 303-318.	3.4	5
96	Unified gas-kinetic scheme for multi-species non-equilibrium flow. , 2014, , .		9
97	A Cartesian grid-based unified gas kinetic scheme. AIP Conference Proceedings, 2014, , .	0.4	2
98	Study of vacuum gas flows with the unified gas-kinetic scheme. , 2014, , .		1
99	Unified gas-kinetic simulation of slider air bearing. Theoretical and Applied Mechanics Letters, 2014, 4, 022001.	2.8	3
100	Unified gas-kinetic scheme for diatomic molecular simulations in all flow regimes. Journal of Computational Physics, 2014, 259, 96-113.	3.8	77
101	On the remedy against shock anomalies in kinetic schemes. Journal of Computational Physics, 2013, 255, 106-129.	3.8	21
102	A high-order multidimensional gas-kinetic scheme for hydrodynamic equations. Science China Technological Sciences, 2013, 56, 2370-2384.	4.0	40
103	Discrete unified gas kinetic scheme for all Knudsen number flows: Low-speed isothermal case. Physical Review E, 2013, 88, 033305.	2.1	289
104	Kinetic Node-Pair Formulation for Two-Dimensional Flows from Continuum to Transitional Regime. AIAA Journal, 2013, 51, 784-796.	2.6	7
105	A new gas-kinetic scheme based on analytical solutions of the BGK equation. Journal of Computational Physics, 2013, 234, 524-539.	3.8	18
106	Comparison of Fifth-Order WENO Scheme and Finite Volume WENO-Gas-Kinetic Scheme for Inviscid and Viscous Flow Simulation. Communications in Computational Physics, 2013, 14, 599-620.	1.7	20
107	A Unified Gas-Kinetic Scheme for Continuum and Rarefied Flows III: Microflow Simulations. Communications in Computational Physics, 2013, 14, 1147-1173.	1.7	80
108	The dynamic mechanism of a moving Crookes radiometer. Physics of Fluids, 2012, 24, .	4.0	14

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109	A Unified Gas-Kinetic Scheme for Continuum and Rarefied Flows II: Multi-Dimensional Cases. Communications in Computational Physics, 2012, 12, 662-690.	1.7	141
110	The study of sound wave propagation in rarefied gases using unified gas-kinetic scheme. Acta Mechanica Sinica/Lixue Xuebao, 2012, 28, 1022-1029.	3.4	16
111	Computational Fluid Dynamics Based on the Unified Coordinates. , 2012, , .		8
112	A unified gas kinetic scheme with moving mesh and velocity space adaptation. Journal of Computational Physics, 2012, 231, 6643-6664.	3.8	116
113	Multiple temperature kinetic model and its applications to micro-scale gas flows. Computers and Fluids, 2012, 67, 115-122.	2.5	39
114	Comments on Current Methods for Multi-Dimensional Flow Computation. , 2012, , 69-77.		0
115	Review of Eulerian Computation for 1-D Inviscid Flow. , 2012, , 19-41.		0
116	Numerical simulation of hypersonic transitional flows by means of a kinetic node-pair approach. , 2011, , .		0
117	Unified Gas-kinetic Scheme for all Knudsen Number Flows. , 2011, , .		0
118	A Well-Balanced Symplecticity-Preserving Gas-Kinetic Scheme for Hydrodynamic Equations under Gravitational Field. SIAM Journal of Scientific Computing, 2011, 33, 2356-2381.	2.8	45
119	Comparison of the generalized Riemann solver and the gas-kinetic scheme for inviscid compressible flow simulations. Journal of Computational Physics, 2011, 230, 5080-5099.	3.8	43
120	A Unified Gas-kinetic Scheme for Continuum and Rarefied Flows. , 2011, , .		0
121	An improved unified gas-kinetic scheme and the study of shock structures. IMA Journal of Applied Mathematics, 2011, 76, 698-711.	1.6	65
122	A Symplectic-preserving Gas-kinetic Scheme for Hydrodynamic Equations under external forcing Field. , 2011, , .		0
123	Multiple Temperature Gas Dynamic Equations for Non-equilibrium Flows. Journal of Computational Mathematics, 2011, 29, 639-660.	0.4	5
124	A high-order gas-kinetic Navierâ€“Stokes flow solver. Journal of Computational Physics, 2010, 229, 6715-6731.	3.8	86
125	A unified gas-kinetic scheme for continuum and rarefied flows. Journal of Computational Physics, 2010, 229, 7747-7764.	3.8	449
126	A BGK-Based Discontinuous Galerkin Method for the Navier-Stokes Equations on Arbitrary Grids. , 2010, , 103-122.		2

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127	A High-Order Gas-Kinetic Navier-Stokes Flow Solver. , 2010, , .		0
128	Valid Physical Processes from Numerical Discontinuities in Computational Fluid Dynamics. International Journal of Hypersonics, 2010, 1, 157-172.	0.2	6
129	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
130	A Well-balanced Kinetic Scheme for Gas Dynamic Equations under Gravitational Field. Advances in Applied Mathematics and Mechanics, 2010, 2, 200-210.	1.2	37
131	Gas-Kinetic BGK Scheme for Three Dimensional Magnetohydrodynamics. Numerical Mathematics, 2010, 3, 387-404.	1.3	2
132	GENERALIZED GAS DYNAMIC EQUATIONS WITH MULTIPLE TRANSLATIONAL TEMPERATURES. Modern Physics Letters B, 2009, 23, 237-240.	1.9	3
133	Remapping-free ALE-type kinetic method for flow computations. Journal of Computational Physics, 2009, 228, 3154-3171.	3.8	21
134	Development of a Discontinuous Galerkin Method for Computational Fluid Dynamics. , 2009, , .		0
135	Generalized Gas Dynamic Equations. , 2009, , .		3
136	Kinetic Methods for Solving the Internal Structure of Shock Waves. , 2009, , .		5
137	A Discontinuous Galerkin Method Based on a Gas Kinetic Scheme for the Navier-Stokes Equations on Arbitrary Grids. , 2009, , 423-428.		4
138	A DGBGK scheme based on WENO limiters for viscous and inviscid flows. Journal of Computational Physics, 2008, 227, 5799-5815.	3.8	11
139	Multiple temperature kinetic model and gas-kinetic method for hypersonic non-equilibrium flow computations. Journal of Computational Physics, 2008, 227, 6779-6794.	3.8	38
140	The Effect of MMT/Modified MMT on the Structure and Performance of the Superabsorbent Composite. Polymer Bulletin, 2008, 60, 69-78.	3.3	45
141	Low Cationic Proportion Ampholytic Polymer: Synthesis, Solution Properties and Interaction with Anionic Surfactant. Polymer Bulletin, 2008, 60, 545-554.	3.3	4
142	Spontaneous volume transition of polyampholyte nanocomposite hydrogels based on pure electrostatic interaction. Journal of Colloid and Interface Science, 2008, 321, 272-278.	9.4	34
143	Efficient kinetic schemes for steady and unsteady flow simulations on unstructured meshes. Journal of Computational Physics, 2008, 227, 3015-3031.	3.8	11
144	A comparative study of the LBE and GKS methods for 2D near incompressible laminar flows. Journal of Computational Physics, 2008, 227, 4955-4976.	3.8	120

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145	Experimental demonstration of polarization multiplexing for simultaneously providing broadband wireless and wired access. Optics Communications, 2008, 281, 2806-2810.	2.1	11
146	A generalized Bhatnagarâ€“Grossâ€“Krook model for nonequilibrium flows. Physics of Fluids, 2008, 20, 026101.	4.0	10
147	Multiple Temperature Kinetic Model for Near Continuum Flow. , 2008, , .		0
148	A BGK-Based Discontinuous Galerkin Method for the Navier-Stokes Equations on Arbitrary Grids. , 2008, , .		4
149	Photonic ultrawideband monocycle pulse generation using a single electro-optic modulator. Optics Letters, 2008, 33, 288.	3.3	50
150	AGET ATRP of Acrylamide in Aqueous Media. E-Polymers, 2008, 8, .	3.0	3
151	One-Dimensional Multiple-Temperature Gas-Kinetic Bhatnagar-Gross-Krook Scheme for Shock Wave Computation. AIAA Journal, 2008, 46, 1054-1062.	2.6	26
152	Extended Gas Dynamic Equations with Multiple Translational Temperature. , 2008, , .		0
153	Modified gas-kinetic scheme for shock structures in argon. Progress in Computational Fluid Dynamics, 2008, 8, 97.	0.2	7
154	Gas-Kinetic Scheme for Continuum and Near-Continuum Hypersonic Flows. Journal of Spacecraft and Rockets, 2007, 44, 1232-1240.	1.9	12
155	Multiple-temperature kinetic model for continuum and near continuum flows. Physics of Fluids, 2007, 19, 016101.	4.0	26
156	Multiscale gas-kinetic simulation for continuum and near-continuum flows. Physical Review E, 2007, 75, 016306.	2.1	12
157	Ultra-wideband pulse generation with flexible pulse shape and polarity control using a Sagnac-interferometer-based intensity modulator. Optics Express, 2007, 15, 18156.	3.4	37
158	Dispersion-Compensation Schemes for 160-Gb/s 1200-km Transmission by Optical Phase Conjugation. Journal of Lightwave Technology, 2007, 25, 1986-1995.	4.6	13
159	Gas Kinetic Scheme for Continuum and Near-Continuum Hypersonic Flows. , 2007, , .		0
160	Gas-kinetic BGK Scheme for three dimensional magnetohydrodynamics. , 2007, , .		0
161	Moving grid gas-kinetic method and numerical simulation of freely falling plates. , 2007, , .		0
162	Multiple Temperature Kinetic Model for Non-Equilibrium Flow Computations. , 2007, , .		2

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163	Non-Equilibrium Shock Structure Computation with a Kinetic BGK Scheme. , 2007, , .		2
164	Multiple Temperature Kinetic Model for Continuum and Near Continuum Flows. , 2007, , .		0
165	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
166	All-Optical Logic or Gate Exploiting Nonlinear Polarization Rotation in an SOA and Red-Shifted Sideband Filtering. IEEE Photonics Technology Letters, 2007, 19, 33-35.	2.5	20
167	A unified moving grid gas-kinetic method in Eulerian space for viscous flow computation. Journal of Computational Physics, 2007, 222, 155-175.	3.8	43
168	A Rungeâ€“Kutta discontinuous Galerkin method for viscous flow equations. Journal of Computational Physics, 2007, 224, 1223-1242.	3.8	51
169	A three-dimensional multidimensional gas-kinetic scheme for the Navierâ€“Stokes equations under gravitational fields. Journal of Computational Physics, 2007, 226, 2003-2027.	3.8	45
170	A gas-kinetic discontinuous Galerkin method for viscous flow equations. Journal of Mechanical Science and Technology, 2007, 21, 1344-1351.	1.5	2
171	Multiple temperature model for near continuum flows. Journal of Mechanical Science and Technology, 2007, 21, 1376-1382.	1.5	0
172	High-order kinetic flux vector splitting schemes in general coordinates for ideal quantum gas dynamics. Journal of Computational Physics, 2007, 227, 967-982.	3.8	13
173	A One-Dimensional Multiple-Temperature Gas-Kinetic BGK Scheme for Shock Wave Computation. , 2006, , .		1
174	Linear and nonlinear analysis of shallow wakes. Journal of Fluid Mechanics, 2006, 548, 309.	3.4	31
175	The gas-kinetic scheme for shallow water equations. Journal of Hydrodynamics, 2006, 18, 73-76.	3.2	0
176	The gas-kinetic scheme for shallow water equations. Journal of Hydrodynamics, 2006, 18, 73-76.	3.2	2
177	An adaptive grid method for two-dimensional viscous flows. Journal of Computational Physics, 2006, 218, 68-81.	3.8	24
178	Gas-kinetic scheme for rarefied flow simulation. Mathematics and Computers in Simulation, 2006, 72, 253-256.	4.4	3
179	The numerical study of roll-waves in inclined open channels and solitary wave run-up. International Journal for Numerical Methods in Fluids, 2006, 50, 1003-1027.	1.6	19
180	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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181	Gas-Kinetic BGK Scheme for Hypersonic Viscous Flow. , 2006, , 183-188.		0
182	Analysis of DOP feedback signal in PMD compensation system based on the different modulation formats. , 2005, 5625, 628.		1
183	Performance analysis of DPSK modulated signals in optical transmission link with PMD and PDL. , 2005, 5625, 1048.		1
184	A simple novel all-optical XOR logic gate implementation. , 2005, , .		0
185	Study of wavelength conversion based on cross polarization modulation in semiconductor optical amplifier. , 2005, , .		0
186	PMD and CD tunable compensation using the nonlinear chirp SBG with uniform grating period. , 2005, , .		0
187	Analysis of four-wave mixing effects in 40Gbit/s CSRZ/RZ-DPSK systems. , 2005, , .		1
188	Study on the adaptive polarization state control in coherent optical communication systems. , 2005, , .		0
189	A multidimensional gas-kinetic BGK scheme for hypersonic viscous flow. Journal of Computational Physics, 2005, 203, 405-421.	3.8	168
190	A compressible Navierâ€“Stokes flow solver with scalar transport. Journal of Computational Physics, 2005, 204, 692-714.	3.8	34
191	Testing Continuum and Non-Continuum Descriptions in High Speed Flows. AIP Conference Proceedings, 2005, , .	0.4	5
192	Optical phase multiplexing through four-wave mixing in optical fiber. , 2005, , .		1
193	Multiple translational temperature model and its shock structure solution. Physical Review E, 2005, 71, 056308.	2.1	22
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