Chang Shu

List of Publications by Year
in descending order

377 papers	16,902 citations	18482 62 h-index	24258 110 g-index
383 all docs	383 docs citations	383 times ranked	6821 citing authors

#	Article	IF	Citations
1	An efficient multilayer RBF neural network and its application to regression problems. Neural Computing and Applications, 2022, 34, 4133-4150.	5.6	24
2	On the evolution of fuel droplet evaporation zone and its interaction with flame front in ignition of spray flames. Combustion Theory and Modelling, 2022, 26, 1131-1158.	1.9	1
3	An implicit lattice Boltzmann flux solver for simulation of compressible flows. Computers and Mathematics With Applications, 2022, 107, 82-94.	2.7	6
4	Hydrodynamic performance of an unconstrained flapping swimmer with flexible fin: A numerical study. Physics of Fluids, 2022, 34, .	4.0	17
5	10.1063/5.0077312.1. , 2022, , .		0
6	Analyses and reconstruction of the lattice Boltzmann flux solver. Journal of Computational Physics, 2022, 453, 110923.	3.8	19
7	An efficient discrete velocity method with inner iteration for steady flows in all flow regimes. Physics of Fluids, 2022, 34, .	4.0	10
8	Development of explicit formulations of G45-based gas kinetic scheme for simulation of continuum and rarefied flows. Physical Review E, 2022, 105, 045302.	2.1	5
9	The effects of caudal fin's bending stiffness on a self-propelled carangiform swimmer. Physics of Fluids, 2022, 34, .	4.0	12
10	Isotherm-evolution-based interface tracking algorithm for modelling temperature-driven solid-liquid phase-change in multiphase flows. International Journal of Thermal Sciences, 2022, 177, 107541.	4.9	5
11	An implicit high-order radial basis function-based differential quadrature-finite volume method on unstructured grids to simulate incompressible flows with heat transfer. Journal of Computational Physics, 2022, 467, 111461.	3.8	8
12	Parametric reduced order modeling-based discrete velocity method for simulation of steady rarefied flows. Journal of Computational Physics, 2021, 430, 110037.	3.8	4
13	High-order gas kinetic flux solver for simulation of two dimensional incompressible flows. Physics of Fluids, 2021, 33, 017107.	4.0	8
14	A simplified lattice Boltzmann flux solver for multiphase flows with large density ratio. International Journal for Numerical Methods in Fluids, 2021, 93, 1895-1912.	1.6	8
15	Phase-field-simplified lattice Boltzmann method for modeling solid-liquid phase change. Physical Review E, 2021, 103, 023308.	2.1	7
16	Explicit formulations of G13-based gas kinetic flux solver (G13-GKFS) for simulation of continuum and rarefied flows. Physics of Fluids, 2021, 33, .	4.0	10
17	An improved multiphase lattice Boltzmann flux solver for the simulation of incompressible flow with large density ratio and complex interface. Physics of Fluids, 2021, 33, 033306.	4.0	26
18	A high-order implicit least square-based finite difference-finite volume method for incompressible flows on unstructured grids. Physics of Fluids, 2021, 33, .	4.0	6

#	Article	IF	Citations
19	An efficient high-order least square-based finite difference-finite volume method for solution of compressible Navier-Stokes equations on unstructured grids. Computers and Fluids, 2021, 222, 104926.	2.5	5
20	A novel gas kinetic flux solver for simulation of continuum and slip flows. International Journal for Numerical Methods in Fluids, 2021, 93, 2863-2888.	1.6	12
21	Gas kinetic flux solver based high-order finite-volume method for simulation of two-dimensional compressible flows. Physical Review E, 2021, 104, 015305.	2.1	6
22	Deterministic and stochastic bifurcations in two-dimensional electroconvective flows. Journal of Fluid Mechanics, 2021, 922, .	3.4	10
23	A unified immersed boundary-lattice Boltzmann flux solver (UIB-LBFS) for simulation of flows past porous bodies. Physics of Fluids, 2021, 33, .	4.0	10
24	Ternary phase-field simplified multiphase lattice Boltzmann method and its application to compound droplet dynamics on solid surface in shear flow. Physical Review Fluids, 2021, 6, .	2.5	8
25	Coupling improved discrete velocity method and G13-based gas kinetic flux solver: A hybrid method and its application for non-equilibrium flows. Physics of Fluids, 2021, 33, .	4.0	9
26	Efficient boundary condition-enforced immersed boundary method for incompressible flows with moving boundaries. Journal of Computational Physics, 2021, 441, 110425.	3.8	24
27	Mixed convection between rotating sphere and concentric cubical enclosure. Physics of Fluids, 2021, 33, .	4.0	10
28	Efficient high-order radial basis-function-based differential quadratureâ€“finite volume method for incompressible flows on unstructured grids. Physical Review E, 2021, 104, 045312.	2.1	8
29	Variant of gas kinetic flux solver for flows beyond Navier-Stokes level. Physical Review E, 2021, 104, 055305.	2.1	6
30	Multilayer perceptron neural network activated by adaptive Gaussian radial basis function and its application to predict lid-driven cavity flow. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 1757-1772.	3.4	6
31	Grad's distribution functions-based gas kinetic scheme for simulation of flows beyond Navierâ€“Stokes level. Physics of Fluids, 2021, 33, .	4.0	8
32	A diffuseâ€interface immersed boundary method for simulation of compressible viscous flows with stationary and moving boundaries. International Journal for Numerical Methods in Fluids, 2020, 92, 149-168.	1.6	4
33	Simplified lattice Boltzmann method for nonâ€Newtonian powerâ€law fluid flows. International Journal for Numerical Methods in Fluids, 2020, 92, 38-54.	1.6	31
34	A high order least square-based finite difference-finite volume method with lattice Boltzmann flux solver for simulation of incompressible flows on unstructured grids. Journal of Computational Physics, 2020, 401, 109019.	3.8	24
35	Development of multi-component generalized sphere function based gas-kinetic flux solver for simulation of compressible viscous reacting flows. Computers and Fluids, 2020, 197, 104382.	2.5	5
36	A mass-conserved fractional step axisymmetric lattice Boltzmann flux solver for incompressible multiphase flows with large density ratio. Physics of Fluids, 2020, 32, .	4.0	20

#	Article	IF	Citations
37	Papers selected from the 8th International Symposium on Physics of Fluids, Xiâ€™an, China, 2019. Physics of Fluids, 2020, 32, 100401.	4.0	0
38	Propagation of heterogeneous and homogeneous planar flames in fuel droplet mists. International Journal of Multiphase Flow, 2020, 133, 103452.	3.4	5
39	Three-dimensional high-order least square-based finite difference-finite volume method on unstructured grids. Physics of Fluids, 2020, 32, .	4.0	22
40	Three-dimensional lattice Boltzmann flux solver for simulation of fluid-solid conjugate heat transfer problems with curved boundary. Physical Review E, 2020, 101, 053309.	2.1	6
41	A diffuse interface IBM for compressible flows with Neumann boundary condition. International Journal of Modern Physics B, 2020, 34, 2040070.	2.0	0
42	Reduced order modeling-based discrete unified gas kinetic scheme for rarefied gas flows. Physics of Fluids, 2020, 32, 067108.	4.0	19
43	A hybrid lattice Boltzmann flux solver for integrated hypersonic fluid-thermal-structural analysis. Chinese Journal of Aeronautics, 2020, 33, 2295-2312.	5.3	6
44	Efficient Aerodynamic Shape Optimization with Deep-Learning-Based Geometric Filtering. AIAA Journal, 2020, 58, 4243-4259.	2.6	90
45	On numerical diffusion of simplified lattice Boltzmann method. International Journal for Numerical Methods in Fluids, 2020, 92, 1198-1211.	1.6	7
46	Immersed boundaryâ€“simplified thermal lattice Boltzmann method for incompressible thermal flows. Physics of Fluids, 2020, 32, .	4.0	45
47	Double distribution function-based discrete gas kinetic scheme for viscous incompressible and compressible flows. Journal of Computational Physics, 2020, 412, 109428.	3.8	5
48	Oblique drop impact on thin film: Splashing dynamics at moderate impingement angles. Physics of Fluids, 2020, 32, .	4.0	21
49	Fluidâ€“structure interaction simulation based on immersed boundary-lattice Boltzmann flux solver and absolute nodal coordinate formula. Physics of Fluids, 2020, 32, .	4.0	26
50	The more actual macroscopic equations recovered from lattice Boltzmann equation and their applications. Journal of Computational Physics, 2020, 415, 109546.	3.8	16
51	A novel solver for simulation of flows from continuum regime to rarefied regime at moderate Knudsen number. Journal of Computational Physics, 2020, 415, 109548.	3.8	14
52	Propagation of weakly stretched premixed spherical spray flames in localized homogeneous and heterogeneous reactants. Physics of Fluids, 2020, 32, .	4.0	9
53	A three-dimensional gas-kinetic flux solver for simulation of viscous flows with explicit formulations of conservative variables and numerical flux. Advances in Aerodynamics, 2020, 2, .	2.5	1
54	An improved three-dimensional implicit discrete velocity method on unstructured meshes for all Knudsen number flows. Journal of Computational Physics, 2019, 396, 738-760.	3.8	32

#	Article	IF	Citations
55	An improved discrete gas-kinetic scheme for two-dimensional viscous incompressible and compressible flows. Physics of Fluids, 2019, 31, .	4.0	10
56	A generalized minimal residual method-based immersed boundary-lattice Boltzmann flux solver coupled with finite element method for non-linear fluid-structure interaction problems. Physics of Fluids, 2019, 31, .	4.0	13
57	Numerical investigation of adhesion dynamics of a deformable cell pair on an adhesive substrate in shear flow. Physical Review E, 2019, 100, 033111.	2.1	5
58	Development of multicomponent lattice Boltzmann flux solver for simulation of compressible viscous reacting flows. Physical Review E, 2019, 100, 033315.	2.1	7
59	Fast flow field prediction over airfoils using deep learning approach. Physics of Fluids, 2019, 31, .	4.0	231
60	A kinetic theory-based axisymmetric lattice Boltzmann flux solver for isothermal and thermal swirling flows. Journal of Computational Physics, 2019, 392, 141-160.	3.8	9
61	Numerical investigation on performance of three solution reconstructions at cell interface in DVM simulation of flows in all Knudsen number regimes. International Journal for Numerical Methods in Fluids, 2019, 90, 545-563.	1.6	6
62	Simulation of conjugate heat transfer problems by lattice Boltzmann flux solver. International Journal of Heat and Mass Transfer, 2019, 137, 895-907.	4.8	20
63	A simplified axisymmetric lattice Boltzmann method for incompressible swirling and rotating flows. Physics of Fluids, 2019, 31, 023605.	4.0	14
64	High-order least-square-based finite-differenceâ€“finite-volume method for simulation of incompressible thermal flows on arbitrary grids. Physical Review E, 2019, 100, 063308.	2.1	11
65	Inverse Design of Airfoil Using a Deep Convolutional Neural Network. AIAA Journal, 2019, 57, 993-1003.	2.6	112
66	Numerical investigation of vortex induced rotation of two square cylinders in tandem arrangement. Ocean Engineering, 2019, 171, 485-495.	4.3	22
67	Third-order discrete unified gas kinetic scheme for continuum and rarefied flows: Low-speed isothermal case. Physical Review E, 2018, 97, 023306.	2.1	17
68	On the re-initialization of fluid interfaces in diffuse interface method. Computers and Fluids, 2018, 166, 209-217.	2.5	11
69	On improvements of simplified and highly stable lattice Boltzmann method: Formulations, boundary treatment, and stability analysis. International Journal for Numerical Methods in Fluids, 2018, 87, 161-179.	1.6	43
70	Development of an efficient gas kinetic scheme for simulation of two-dimensional incompressible thermal flows. Physical Review E, 2018, 97, 013305.	2.1	15
71	Development of axisymmetric lattice Boltzmann flux solver for complex multiphase flows. Modern Physics Letters B, 2018, 32, 1840005.	1.9	3
72	A simple mass-conserved level set method for simulation of multiphase flows. Physics of Fluids, 2018, 30, .	4.0	24

#	Article	IF	Citations
73	An implicit scheme with memory reduction technique for steady state solutions of DVBE in all flow regimes. Physics of Fluids, 2018, 30, .	4.0	18
74	An implicit simplified sphere function-based gas kinetic scheme for simulation of 3D incompressible isothermal flows. Computers and Fluids, 2018, 160, 204-218.	2.5	7
75	Improved fully implicit discrete-velocity method for efficient simulation of flows in all flow regimes. Physical Review E, 2018, 98, .	2.1	24
76	Simplified multiphase lattice Boltzmann method for simulating multiphase flows with large density ratios and complex interfaces. Physical Review E, 2018, 98, .	2.1	54
77	Development of lattice Boltzmann flux solver for simulation of hypersonic flow past flight vehicles. Journal of Physics: Conference Series, 2018, 1053, 012073.	0.4	0
78	Highly accurate simplified lattice Boltzmann method. Physics of Fluids, 2018, 30, .	4.0	40
79	Simulation of interfacial waves of two-layer flows through phase field lattice Boltzmann method. Modern Physics Letters B, 2018, 32, 1840056.	1.9	0
80	An improved discrete velocity method (DVM) for efficient simulation of flows in all flow regimes. Physics of Fluids, 2018, 30, .	4.0	38
81	High-order simplified thermal lattice Boltzmann method for incompressible thermal flows. International Journal of Heat and Mass Transfer, 2018, 127, 1-16.	4.8	31
82	Immersed boundary-simplified lattice Boltzmann method for incompressible viscous flows. Physics of Fluids, 2018, 30, .	4.0	45
83	An effective lattice Boltzmann flux solver on arbitrarily unstructured meshes. Modern Physics Letters B, 2018, 32, 1840012.	1.9	3
84	Extension of lattice Boltzmann flux solver for simulation of compressible multi-component flows. Modern Physics Letters B, 2018, 32, 1840001.	1.9	2
85	Preface to Special Topic: Papers Selected from the 7th International Symposium on Physics of Fluids, Guiyang, China, 2017. Physics of Fluids, 2018, 30, 040801.	4.0	0
86	Circular Function-Based Gas-Kinetic Scheme for Simulation of Viscous Compressible Flows. Lecture Notes in Computer Science, 2018, , 37-47.	1.3	0
87	The Simplified Lattice Boltzmann Method on Non-Uniform Meshes. Communications in Computational Physics, 2018, 23, .	1.7	18
88	An immersed boundary-gas kinetic flux solver for simulation of incompressible flows. Computers and Fluids, 2017, 142, 45-56.	2.5	12
89	On the immersed boundaryâ€lattice Boltzmann simulations of incompressible flows with freely moving objects. International Journal for Numerical Methods in Fluids, 2017, 83, 331-350.	1.6	10
90	Incorporating an immersed boundary method to study thermal effects of vascular systems during tissue cryo-freezing. Journal of Thermal Biology, 2017, 64, 92-99.	2.5	15

#	Article	IF	Citations
91	Comparative study of discrete velocity method and high-order lattice Boltzmann method for simulation of rarefied flows. Computers and Fluids, 2017, 146, 125-142.	2.5	26
92	A free energy-based surface tension force model for simulation of multiphase flows by level-set method. Journal of Computational Physics, 2017, 345, 404-426.	3.8	30
93	A simplified circular functionâ€“based gas kinetic scheme for simulation of incompressible flows. International Journal for Numerical Methods in Fluids, 2017, 85, 583-598.	1.6	18
94	Three-dimensional simplified and unconditionally stable lattice Boltzmann method for incompressible isothermal and thermal flows. Physics of Fluids, 2017, 29, 053601.	4.0	27
95	An immersed boundary-lattice boltzmann flux solver in a moving frame to study three-dimensional freely falling rigid bodies. Journal of Fluids and Structures, 2017, 68, 444-465.	3.4	14
96	A Simplified Lattice Boltzmann Method without Evolution of Distribution Function. Advances in Applied Mathematics and Mechanics, 2017, 9, 1-22.	1.2	68
97	An immersed boundary-simplified sphere function-based gas kinetic scheme for simulation of 3D incompressible flows. Physics of Fluids, 2017, 29, .	4.0	39
98	A simple gas kinetic scheme for simulation of 3D incompressible thermal flows. Numerical Heat Transfer, Part B: Fundamentals, 2017, 72, 450-468.	0.9	9
99	Comparative study of 1D, 2D and 3D simplified gas kinetic schemes for simulation of inviscid compressible flows. Applied Mathematical Modelling, 2017, 43, 85-109.	4.2	8
100	A simplified thermal lattice Boltzmann method without evolution of distribution functions. International Journal of Heat and Mass Transfer, 2017, 105, 741-757.	4.8	40
101	An adaptive mesh refinement-multiphase lattice Boltzmann flux solver for simulation of complex binary fluid flows. Physics of Fluids, 2017, 29, .	4.0	28
102	A Truly Second-Order and Unconditionally Stable Thermal Lattice Boltzmann Method. Applied Sciences (Switzerland), 2017, 7, 277.	2.5	18
103	Computational Methods and Models in Circulatory and Reproductive Systems. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-2.	1.3	0
104	Numerical analysis of a clinically-extracted vascular tissue during cryo-freezing using immersed boundary method. International Journal of Thermal Sciences, 2016, 110, 109-118.	4.9	10
105	Numerical Simulation of Microflows by a DOM With Streaming and Collision Processes. , 2016, , .		1
106	Numerical Investigation on Head-On Collisions of Binary Micro-Droplets by an Improved Multiphase Lattice Boltzmann Flux Solver. , 2016, , .		0
107	Numerical study on the freely falling plate: Effects of density ratio and thickness-to-length ratio. Physics of Fluids, 2016, 28, .	4.0	15
108	A Hybrid Lattice Boltzmann Flux Solver for Simulation of Viscous Compressible Flows. Advances in Applied Mathematics and Mechanics, 2016, 8, 887-910.	1.2	34

#	Article	IF	Citations
109	A Switch Function-Based Gas-Kinetic Scheme for Simulation of Inviscid and Viscous Compressible Flows. Advances in Applied Mathematics and Mechanics, 2016, 8, 703-721.	1.2	7
110	Development of discrete gas kinetic scheme for simulation of 3D viscous incompressible and compressible flows. Journal of Computational Physics, 2016, 319, 129-144.	3.8	24
111	A decoupling multiple-relaxation-time lattice Boltzmann flux solver for non-Newtonian power-law fluid flows. Journal of Non-Newtonian Fluid Mechanics, 2016, 235, 20-28.	2.4	24
112	Extension of lattice Boltzmann flux solver for simulation of 3D viscous compressible flows. Computers and Mathematics With Applications, 2016, 71, 2069-2081.	2.7	23
113	Development of a discrete gas-kinetic scheme for simulation of two-dimensional viscous incompressible and compressible flows. Physical Review E, 2016, 93, 033311.	2.1	27
114	EVALUATION OF THE PERFORMANCE OF THE HYBRID LATTICE BOLTZMANN BASED NUMERICAL FLUX. International Journal of Modern Physics Conference Series, 2016, 42, 1660152.	0.7	0
115	A boundary condition-enforced immersed boundary method for compressible viscous flows. Computers and Fluids, 2016, 136, 104-113.	2.5	29
116	Numerical simulation of flows from free molecular regime to continuum regime by a DVM with streaming and collision processes. Journal of Computational Physics, 2016, 306, 291-310.	3.8	42
117	A fractional-step lattice Boltzmann flux solver for axisymmetric thermal flows. Numerical Heat Transfer, Part B: Fundamentals, 2016, 69, 111-129.	0.9	13
118	Boundary condition-enforced immersed boundary-lattice Boltzmann flux solver for thermal flows with Neumann boundary conditions. Journal of Computational Physics, 2016, 306, 237-252.	3.8	38
119	An efficient immersed boundary-lattice Boltzmann flux solver for simulation of 3D incompressible flows with complex geometry. Computers and Fluids, 2016, 124, 54-66.	2.5	29
120	Thermoelastic response of thin plate with variable material properties under transient thermal shock. International Journal of Mechanical Sciences, 2015, 104, 200-206.	6.7	36
121	Three-Dimensional Lattice Boltzmann Flux Solver and Its Applications to Incompressible Isothermal and Thermal Flows. Communications in Computational Physics, 2015, 18, 593-620.	1.7	33
122	From Lattice Boltzmann Method to Lattice Boltzmann Flux Solver. Entropy, 2015, 17, 7713-7735.	2.2	41
123	A mass-conserved diffuse interface method and its application for incompressible multiphase flows with large density ratio. Journal of Computational Physics, 2015, 290, 336-351.	3.8	77
124	A coupled immersed boundaryâ€“lattice Boltzmann method and its simulation for biomimetic problems. Theoretical and Applied Mechanics Letters, 2015, 5, 16-19.	2.8	8
125	A hybrid phase field multiple relaxation time lattice Boltzmann method for the incompressible multiphase flow with large density contrast. International Journal for Numerical Methods in Fluids, 2015, 77, 526-543.	1.6	48
126	An immersed boundary-lattice Boltzmann flux solver and its applications to fluidâ€“structure interaction problems. Journal of Fluids and Structures, 2015, 54, 440-465.	3.4	108

#	Article	IF	Citations
127	Numerical study on the power extraction performance of a flapping foil with a flexible tail. Physics of Fluids, 2015, 27, .	4.0	54
128	Ground effect on the power extraction performance of a flapping wing biomimetic energy generator. Journal of Fluids and Structures, 2015, 54, 247-262.	3.4	25
129	Explicit formulations of gas-kinetic flux solver for simulation of incompressible and compressible viscous flows. Journal of Computational Physics, 2015, 300, 492-519.	3.8	31
130	A three-dimensional explicit sphere function-based gas-kinetic flux solver for simulation of inviscid compressible flows. Journal of Computational Physics, 2015, 295, 322-339.	3.8	34
131	An improved multiphase lattice Boltzmann flux solver for three-dimensional flows with large density ratio and high Reynolds number. Journal of Computational Physics, 2015, 302, 41-58.	3.8	82
132	An SPH model for multiphase flows with complex interfaces and large density differences. Journal of Computational Physics, 2015, 283, 169-188.	3.8	154
133	Analytical and numerical study of tissue cryofreezing via the immersed boundary method. International Journal of Heat and Mass Transfer, 2015, 83, 1-10.	4.8	34
134	A numerical study on RCCI engine fueled by biodiesel/methanol. Energy Conversion and Management, 2015, 89, 798-807.	9.2	102
135	An adaptive immersed boundary-lattice Boltzmann method for simulating a flapping foil in ground effect. Computers and Fluids, 2015, 106, 171-184.	2.5	27
136	Multiphase lattice Boltzmann flux solver for incompressible multiphase flows with large density ratio. Journal of Computational Physics, 2015, 280, 404-423.	3.8	174
137	Application of Combination of Local Domain Free Discretization and Immersed Boundary Method (LDFD-IBM) to Numerical Simulation of 3D Flows Over a Circular Cylinder. , 2014, , .		0
138	Pitching-motion-activated flapping foil near solid walls for power extraction: A numerical investigation. Physics of Fluids, 2014, 26, .	4.0	53
139	Investigation of flow characteristics around a stationary circular cylinder with an undulatory plate. European Journal of Mechanics, B/Fluids, 2014, 48, 27-39.	2.5	23
140	Thermal lattice Boltzmann flux solver and its application for simulation of incompressible thermal flows. Computers and Fluids, 2014, 94, 98-111.	2.5	77
141	Numerical investigation of vortex-induced vibration of a circular cylinder with a hinged flat plate. Physics of Fluids, 2014, 26, .	4.0	44
142	A simple distribution function-based gas-kinetic scheme for simulation of viscous incompressible and compressible flows. Journal of Computational Physics, 2014, 274, 611-632.	3.8	47
143	Flow control of a circular cylinder by using an attached flexible filament. Physics of Fluids, 2014, 26, .	4.0	64
144	Numerical study of flow control via the interaction between a circular cylinder and a flexible plate. Journal of Fluids and Structures, 2014, 49, 594-613.	3.4	39

#	Article	IF	Citations
145	A fractional step axisymmetric lattice Boltzmann flux solver for incompressible swirling and rotating flows. Computers and Fluids, 2014, 96, 204-214.	2.5	29
146	Free-energy-based lattice Boltzmann model for the simulation of multiphase flows with density contrast. Physical Review E, 2014, 89, 033309.	2.1	69
147	Fluid Dynamics of Flapping Insect Wing in Ground Effect. Journal of Bionic Engineering, 2014, 11, 52-60.	5.0	30
148	Development of LBGK and incompressible LBGKâ€based lattice Boltzmann flux solvers for simulation of incompressible flows. International Journal for Numerical Methods in Fluids, 2014, 75, 344-364.	1.6	39
149	An efficient boundary condition-implemented immersed boundary-lattice Boltzmann method for simulation of 3D incompressible viscous flows. Computers and Fluids, 2014, 100, 165-175.	2.5	10
150	Development of Lattice Boltzmann Flux Solver for Simulation of Incompressible Flows. Advances in Applied Mathematics and Mechanics, 2014, 6, 436-460.	1.2	120
151	A Boundary Condition-Implemented Immersed Boundary-Lattice Boltzmann Method and Its Application for Simulation of Flows Around a Circular Cylinder. Advances in Applied Mathematics and Mechanics, 2014, 6, 811-829.	1.2	6
152	A stencil adaptive phaseâ€field lattice Boltzmann method for two dimensional incompressible multiphase flows. International Journal for Numerical Methods in Fluids, 2013, 72, 671-696.	1.6	4
153	A moment conservation-based non-free parameter compressible lattice Boltzmann model and its application for flux evaluation at cell interface. Computers and Fluids, 2013, 79, 190-199.	2.5	40
154	Circular function-based gas-kinetic scheme for simulation of inviscid compressible flows. Journal of Computational Physics, 2013, 255, 540-557.	3.8	45
155	Development of an immersed boundary-phase field-lattice Boltzmann method for Neumann boundary condition to study contact line dynamics. Journal of Computational Physics, 2013, 234, 8-32.	3.8	28
156	An efficient immersed boundary method for thermal flow problems with heat flux boundary conditions. International Journal of Heat and Mass Transfer, 2013, 64, 694-705.	4.8	65
157	Novel immersed boundary methods for thermal flow problems. International Journal of Numerical Methods for Heat and Fluid Flow, 2013, 23, 124-142.	2.8	25
158	Hybrid multiple-relaxation-time lattice-Boltzmann finite-difference method for axisymmetric multiphase flows. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 055501.	2.1	30
159	Simulation of Thermal Flow Problems via a Hybrid Immersed Boundary-Lattice Boltzmann Method. Journal of Applied Mathematics, 2012, 2012, 1-11.	0.9	3
160	A HYBRID PHASE-FIELD BASED LATTICE BOLTZMANN METHOD FOR CONTACT LINE DYNAMICS. International Journal of Modern Physics Conference Series, 2012, 19, 50-61.	0.7	0
161	A Phase-Field-Based Hybrid Lattice-Boltzmann Finite-Volume Method and Its Application to Simulate Droplet Motion under Electrowetting Control. Journal of Adhesion Science and Technology, 2012, 26, 1825-1851.	2.6	23
162	INTERACTION OF SHOCK WAVE WITH MULTI-FLUIDS INTERFACE USING QUADRILATERAL-BASED ADAPTIVE MESH. International Journal of Modern Physics C, 2012, 23, 1250033.	1.7	1

#	Article	IF	Citations
163	DEVELOPING LBM-BASED FLUX SOLVER AND ITS APPLICATIONS IN MULTI-DIMENSION SIMULATIONS. International Journal of Modern Physics Conference Series, 2012, 19, 90-99.	0.7	1
164	Extension of local domain-free discretization method to simulate 3D flows with complex moving boundaries. Computers and Fluids, 2012, 64, 98-107.	2.5	10
165	Simulation of selfâ€propelled anguilliform swimming by local domainâ€free discretization method. International Journal for Numerical Methods in Fluids, 2012, 69, 1891-1906.	1.6	17
166	A stream functionâ€“vorticity formulationâ€based immersed boundary method and its applications. International Journal for Numerical Methods in Fluids, 2012, 70, 627-645.	1.6	14
167	Boundary condition-enforced immersed boundary method for thermal flow problems with Dirichlet temperature condition and its applications. Computers and Fluids, 2012, 57, 40-51.	2.5	94
168	Simulation of threeâ€dimensional flows over moving objects by an improved immersed boundaryâ€“lattice Boltzmann method. International Journal for Numerical Methods in Fluids, 2012, 68, 977-1004.	1.6	33
169	Development and Comparative Studies of Three Non-free Parameter Lattice Boltzmann Models for Simulation of Compressible Flows. Advances in Applied Mathematics and Mechanics, 2012, 4, 454-472.	1.2	24
170	Simulation of Incompressible Viscous Flows by Local DFD-Immersed Boundary Method. Advances in Applied Mathematics and Mechanics, 2012, 4, 311-324.	1.2	5
171	Oscillation-Free Adaptive Simulation of Compressible Two-Fluid Flows with Different Types of Equation of State. ERCOFTAC Series, 2012, , 103-117.	0.1	0
172	Quadrilateral Cell-Based Anisotropic Adaptive Solution for the Euler Equations. Communications in Computational Physics, 2011, 9, 68-88.	1.7	0
173	Lattice Boltzmann study of bubble entrapment during droplet impact. International Journal for Numerical Methods in Fluids, 2011, 65, 655-682.	1.6	16
174	A local domainâ€free discretization method for simulation of incompressible flows over moving bodies. International Journal for Numerical Methods in Fluids, 2011, 66, 162-182.	1.6	23
175	A solution adaptive simulation of compressible multiâ€fluid flows with general equation of state. International Journal for Numerical Methods in Fluids, 2011, 67, 616-637.	1.6	13
176	A local radial basis functionsâ€”Finite differences technique for the analysis of composite plates. Engineering Analysis With Boundary Elements, 2011, 35, 363-374.	3.7	52
177	A solution-adaptive lattice Boltzmann method for two-dimensional incompressible viscous flows. Journal of Computational Physics, 2011, 230, 2246-2269.	3.8	46
178	Numerical study of flow characteristics behind a stationary circular cylinder with a flapping plate. Physics of Fluids, 2011, 23, .	4.0	56
179	RADIAL BASIS FUNCTION-BASED DIFFERENTIAL QUADRATURE (RBF-DQ) METHOD AND ITS APPLICATIONS. Advances in Computational Fluid Dynamics, 2011, , 299-329.	0.1	0
180	Simulation of incompressible viscous flows around moving objects by a variant of immersed boundaryâ€lattice Boltzmann method. International Journal for Numerical Methods in Fluids, 2010, 62, 327-354.	1.6	16

#	Article	IF	Citations
181	A hybrid FVMâ€“LBM method for single and multiâ€fluid compressible flow problems. International Journal for Numerical Methods in Fluids, 2010, 62, 403-427.	1.6	6
182	An evaluation of a 3D freeâ€energyâ€based lattice Boltzmann model for multiphase flows with large density ratio. International Journal for Numerical Methods in Fluids, 2010, 63, 1193-1207.	1.6	13
183	Fluid flow and heat transfer in wavy microchannels. International Journal of Heat and Mass Transfer, 2010, 53, 2760-2772.	4.8	429
184	Approximate mapping method for prediction of chaotic mixing in spatial-periodic microchannel. Chemical Engineering Research and Design, 2010, 88, 1419-1426.	5.6	2
185	An improved immersed boundary-lattice Boltzmann method for simulating three-dimensional incompressible flows. Journal of Computational Physics, 2010, 229, 5022-5042.	3.8	124
186	Flow of second-order fluid in a curved duct with square cross-section. Journal of Non-Newtonian Fluid Mechanics, 2010, 165, 323-339.	2.4	43
187	Simulation of fish swimming and manoeuvring by an SVD-GFD method on a hybrid meshfree-Cartesian grid. Computers and Fluids, 2010, 39, 403-430.	2.5	31
188	Stencil adaptive diffuse interface method for simulation of two-dimensional incompressible multiphase flows. Computers and Fluids, 2010, 39, 936-944.	2.5	4
189	AN EFFICIENT LATTICE BOLTZMANN METHOD FOR THE APPLICATION ON NON-UNIFORM CARTESIAN MESH. Modern Physics Letters B, 2010, 24, 1275-1278.	1.9	1
190	AN ISOPARAMETRIC TRANSFORMATION-BASED INTERPOLATION-SUPPLEMENTED LATTICE BOLTZMANN METHOD AND ITS APPLICATION. Modern Physics Letters B, 2010, 24, 1315-1318.	1.9	4
191	FREE VIBRATION AND BUCKLING ANALYSIS OF HIGHLY SKEWED PLATES BY LEAST SQUARES-BASED FINITE DIFFERENCE METHOD. International Journal of Structural Stability and Dynamics, 2010, 10, 225-252.	2.4	24
192	Three Dimensional Adaptive Method for Compressible Multi-Fluids Flows. , 2010, , .		0
193	A LATTICE BOLTZMANN METHOD-BASED FLUX SOLVER AND ITS APPLICATION TO SOLVE SHOCK TUBE PROBLEM. Modern Physics Letters B, 2009, 23, 313-316.	1.9	26
194	SIMULATION OF INCOMPRESSIBLE VISCOUS FLOWS BY BOUNDARY CONDITION-IMPLEMENTED IMMERSED BOUNDARY METHOD. Modern Physics Letters B, 2009, 23, 345-348.	1.9	0
195	NUMERICAL SIMULATION OF DAM BREAK BY ADAPTIVE STENCIL DIFFUSE INTERFACE METHOD. Modern Physics Letters B, 2009, 23, 293-296.	1.9	2
196	Lattice Boltzmann study of droplet motion inside a grooved channel. Physics of Fluids, 2009, 21, .	4.0	52
197	Mobilityâ€dependent bifurcations in capillarityâ€driven twoâ€phase fluid systems by using a lattice Boltzmann phaseâ€field model. International Journal for Numerical Methods in Fluids, 2009, 60, 203-225.	1.6	47
198	A local domainâ€free discretization method to simulate threeâ€dimensional compressible inviscid flows. International Journal for Numerical Methods in Fluids, 2009, 61, 970-986.	1.6	10

#	Article	IF	Citations
199	Implicit velocity correction-based immersed boundary-lattice Boltzmann method and its applications. Journal of Computational Physics, 2009, 228, 1963-1979.	3.8	399
200	A NEW IMMERSED BOUNDARY-LATTICE BOLTZMANN METHOD AND ITS APPLICATION TO INCOMPRESSIBLE FLOWS. Modern Physics Letters B, 2009, 23, 261-264.	1.9	4
201	An Efficient Wavy Microchannel Heat Sink for Electronic Devices. , 2009, , .		3
202	A singularâ€value decomposition (SVD)â€based generalized finite difference (GFD) method for closeâ€interaction moving boundary flow problems. International Journal for Numerical Methods in Engineering, 2008, 76, 1892-1929.	2.8	21
203	Threeâ€dimensional lattice Boltzmann interface capturing method for incompressible flows. International Journal for Numerical Methods in Fluids, 2008, 56, 1653-1671.	1.6	23
204	Application of local DFD method to simulate unsteady flows around an oscillating circular cylinder. International Journal for Numerical Methods in Fluids, 2008, 58, 1223-1236.	1.6	9
205	Numerical investigation of transporting droplets by spatiotemporally controlling substrate wettability. Journal of Colloid and Interface Science, 2008, 328, 124-133.	9.4	38
206	An object-oriented and quadrilateral-mesh based solution adaptive algorithm for compressible multi-fluid flows. Journal of Computational Physics, 2008, 227, 6895-6921.	3.8	21
207	Mesh-free least-squares-based finite difference method for large-amplitude free vibration analysis of arbitrarily shaped thin plates. Journal of Sound and Vibration, 2008, 317, 955-974.	3.9	18
208	Ab initio study of formations of neutral vacancies in ferroelectric PbTiO3 at different oxygen atmospheres. Journal of Alloys and Compounds, 2008, 449, 362-365.	5.5	20
209	ACCEPTOR MODULATED DEFECT AND ELECTRONIC STRUCTURES IN FERROELECTRIC LEAD TITANATE: AN AB INITIO STUDY. Functional Materials Letters, 2008, 01, 121-126.	1.2	2
210	Comparative study of effects of Mo and W dopants on the ferroelectric property of Pb(Zr0.3Ti0.7) thin films. Journal Physics D: Applied Physics, 2008, 41, 135402.	2.8	7
211	Defect and electronic structures of acceptor substituted lead titanate. Applied Physics Letters, 2008, 92, 112909.	3.3	19
212	Lattice Boltzmann method simulation gas slip flow in long microtubes. International Journal of Numerical Methods for Heat and Fluid Flow, 2007, 17, 587-607.	2.8	26
213	NUMERICAL STUDY OF 2D MULTIPHASE FLOWS OVER GROOVED SURFACE BY LATTICE BOLTZMANN METHOD. International Journal of Modern Physics C, 2007, 18, 492-500.	1.7	13
214	SIMULATION OF SHOCK-WAVE PROPAGATION WITH FINITE VOLUME LATTICE BOLTZMANN METHOD. International Journal of Modern Physics C, 2007, 18, 447-454.	1.7	26
215	Ferroelectrical properties of W-doped lead zirconate titanate. Journal of Applied Physics, 2007, 102, 074119.	2.5	9
216	Least squares finite difference method for vibration analysis of plates. , 2007, , 118-144.		0

#	Article	IF	Citations
217	Alternative method to construct equilibrium distribution functions in lattice-Boltzmann method simulation of inviscid compressible flows at high Mach number. Physical Review E, 2007, 75, 036706.	2.1	102
218	Extension of domain-free discretization method to simulate compressible flows over fixed and moving bodies. International Journal for Numerical Methods in Fluids, 2007, 53, 175-199.	1.6	16
219	Numerical simulation of flows around two circular cylinders by mesh-free least square-based finite difference methods. International Journal for Numerical Methods in Fluids, 2007, 53, 305-332.	1.6	145
220	Integrated radial basis functions-based differential quadrature method and its performance. International Journal for Numerical Methods in Fluids, 2007, 53, 969-984.	1.6	67
221	Hybrid lattice Boltzmann finite-difference simulation of axisymmetric swirling and rotating flows. International Journal for Numerical Methods in Fluids, 2007, 53, 1707-1726.	1.6	61
222	Development of a local MQ-DQ-based stencil adaptive method and its application to solve incompressible Navierâ€“Stokes equations. International Journal for Numerical Methods in Fluids, 2007, 55, 367-386.	1.6	4
223	Free vibration analysis of plates using least-square-based finite difference method. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 1330-1343.	6.6	31
224	Applications of stencil-adaptive finite difference method to incompressible viscous flows with curved boundary. Computers and Fluids, 2007, 36, 786-793.	2.5	20
225	Vibration analysis of arbitrarily shaped membranes using local radial basis function-based differential quadrature method. Journal of Sound and Vibration, 2007, 306, 252-270.	3.9	47
226	A novel immersed boundary velocity correctionâ€“lattice Boltzmann method and its application to simulate flow past a circular cylinder. Journal of Computational Physics, 2007, 226, 1607-1622.	3.8	167
227	Diffuse interface model for incompressible two-phase flows with large density ratios. Journal of Computational Physics, 2007, 226, 2078-2095.	3.8	524
228	Experimental study of micro-thermophotovoltaic systems with different combustor configurations. Energy Conversion and Management, 2007, 48, 1238-1244.	9.2	43
229	Electronic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi></mml:math>-site substituted lead zirconate titanate: Density functional calculations. Physical Review B, 2007, 76, .	3.2	25
230	A thermal lattice Boltzmann model with diffuse scattering boundary condition for micro thermal flows. Computers and Fluids, 2007, 36, 273-281.	2.5	64
231	Effect of current-collector structure on performance of passive micro direct methanol fuel cell. Journal of Power Sources, 2007, 164, 549-554.	7.8	73
232	Fluid Micromixing Technology and Its Applications for Biological and Chemical Processes. IFMBE Proceedings, 2007, , 16-20.	0.3	5
233	Simulation of Traveling Wave Dielectrophoresis Using a Meshless Method. , 2006, , .		0
234	Study on vacancy formation in ferroelectric PbTiO3 from ab initio. Applied Physics Letters, 2006, 88, 142902.	3.3	53

#	Article	IF	Citations
235	Catalytic Effect of Microcombustion in Microthermophotovoltaic System. Nanoscale and Microscale Thermophysical Engineering, 2006, 10, 275-282.	2.6	3
236	Latticeâ€BGK simulation of steady flow through vascular tubes with double constrictions. International Journal of Numerical Methods for Heat and Fluid Flow, 2006, 16, 185-203.	2.8	16
237	Numerical comparison of least square-based finite-difference (LSFD) and radial basis function-based finite-difference (RBFFD) methods. Computers and Mathematics With Applications, 2006, 51, 1297-1310.	2.7	14
238	Numerical computation of three-dimensional incompressible viscous flows in the primitive variable form by local multiquadric differential quadrature method. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 516-533.	6.6	76
239	A momentum exchange-based immersed boundary-lattice Boltzmann method for simulating incompressible viscous flows. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 354, 173-182.	2.1	334
240	Computation of modal stress resultants for completely free vibrating plates by LSFD method. Journal of Sound and Vibration, 2006, 297, 704-726.	3.9	5
241	A fractional step lattice Boltzmann method for simulating high Reynolds number flows. Mathematics and Computers in Simulation, 2006, 72, 201-205.	4.4	31
242	A stencil adaptive algorithm for finite difference solution of incompressible viscous flows. Journal of Computational Physics, 2006, 214, 397-420.	3.8	34
243	A generalized finite-difference (GFD) ALE scheme for incompressible flows around moving solid bodies on hybrid meshfreeâ€“Cartesian grids. Journal of Computational Physics, 2006, 218, 510-548.	3.8	56
244	LSFD method for accurate vibration modes and modal stress-resultants of freely vibrating plates that model VLFS. Computers and Structures, 2006, 84, 2329-2339.	4.4	7
245	A lattice Boltzmann model for multiphase flows with large density ratio. Journal of Computational Physics, 2006, 218, 353-371.	3.8	417
246	Application of multi-block approach in the immersed boundaryâ€“lattice Boltzmann method for viscous fluid flows. Journal of Computational Physics, 2006, 218, 460-478.	3.8	107
247	Three-dimensional lattice Boltzmann BGK model and its application to flows with heat transfer in a rectangular microchannel. International Journal for Numerical Methods in Fluids, 2006, 50, 1321-1334.	1.6	9
248	Adaptive mesh refinement-enhanced local DFD method and its application to solve Navierâ€“Stokes equations. International Journal for Numerical Methods in Fluids, 2006, 51, 897-912.	1.6	11
249	Influence of the Reynolds number on chaotic mixing in a spatially periodic micromixer and its characterization using dynamical system techniques. Journal of Micromechanics and Microengineering, 2006, 16, 53-61.	2.6	43
250	AN AXISYMMETRIC INCOMPRESSIBLE LATTICE BOLTZMANN MODEL FOR PIPE FLOW. International Journal of Modern Physics C, 2006, 17, 645-661.	1.7	56
251	Application of Taylor series expansion and Least-squares-based lattice Boltzmann method to simulate turbulent flows. Journal of Turbulence, 2006, 7, N38.	1.4	11
252	Computational investigation of B-site donor doping effect on fatigue behavior of lead zirconate titanate. Applied Physics Letters, 2006, 89, 152909.	3.3	31

#	Article	IF	Citations
253	THERMAL CURVED BOUNDARY TREATMENT FOR THE THERMAL LATTICE BOLTZMANN EQUATION. International Journal of Modern Physics C, 2006, 17, 631-643.	1.7	41
254	Taylor series expansion- and least square-based Lattice Boltzmann method: an efficient approach for simulation of incompressible viscous flows. Progress in Computational Fluid Dynamics, 2005, 5, 27.	0.2	9
255	An upwind local RBF-DQ method for simulation of inviscid compressible flows. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 2001-2017.	6.6	82
256	Error estimates of local multiquadric-based differential quadrature (LMQDQ) method through numerical experiments. International Journal for Numerical Methods in Engineering, 2005, 63, 1513-1529.	2.8	46
257	An axisymmetric incompressible lattice BGK model for simulation of the pulsatile flow in a circular pipe. International Journal for Numerical Methods in Fluids, 2005, 49, 99-116.	1.6	37
258	Characteristics of premixed flame in microcombustors with different diameters. Applied Thermal Engineering, 2005, 25, 271-281.	6.0	16
259	Numerical and experimental observation of chaotic mixing in microfluidic mixer. Journal of Visualization, 2005, 8, 291-291.	1.8	0
260	A Lattice Boltzmann Kinetic Model for Microflow and Heat Transfer. Journal of Statistical Physics, 2005, 121, 239-255.	1.2	56
261	MICROTHERMOPHOTOVOLTAICS POWER SYSTEM FOR PORTABLE MEMS DEVICES. Microscale Thermophysical Engineering, 2005, 9, 85-97.	1.2	45
262	Study of catalytic combustion and its effect on microthermophotovoltaic power generators. Journal Physics D: Applied Physics, 2005, 38, 4252-4255.	2.8	42
263	Effects of step height on wall temperature of a microcombustor. Journal of Micromechanics and Microengineering, 2005, 15, 207-212.	2.6	25
264	Numerical modeling of dielectrophoresis using a meshless approach. Journal of Micromechanics and Microengineering, 2005, 15, 1040-1048.	2.6	25
265	Entropy generation during microcombustion. Journal of Applied Physics, 2005, 97, 084914.	2.5	22
266	NUMERICAL SIMULATION OF ISOTHERMAL MICRO FLOWS BY LATTICE BOLTZMANN METHOD AND THEORETICAL ANALYSIS OF THE DIFFUSE SCATTERING BOUNDARY CONDITION. International Journal of Modern Physics C, 2005, 16, 1927-1941.	1.7	18
267	Lattice Boltzmann interface capturing method for incompressible flows. Physical Review E, 2005, 72, 056705.	2.1	79
268	SIMULATION OF NATURAL CONVECTION IN ECCENTRIC ANNULI BETWEEN A SQUARE OUTER CYLINDER AND A CIRCULAR INNER CYLINDER USING LOCAL MQ-DQ METHOD. Numerical Heat Transfer; Part A: Applications, 2005, 47, 291-313.	2.1	54
269	NUMERICAL SIMULATION OF FLOWS PAST A ROTATIONAL CIRCULAR CYLINDER BY TAYLOR-SERIES-EXPANSION AND LEAST SQUARES-BASED LATTICE BOLTZMANN METHOD. International Journal of Modern Physics C, 2005, 16, 1753-1770.	1.7	7
270	ADAPTIVE SOLUTION OF FLOW PAST TWO SIDE-BY-SIDE CIRCULAR CYLINDERS. Modern Physics Letters B, 2005, 19, 1459-1462.	1.9	1

#	Article	IF	Citations
271	A NEWTON-MULTIGRID METHOD FOR NUMERICAL SIMULATION OF SLIDER AIR BEARING. Modern Physics Letters B, 2005, 19, 1647-1650.	1.9	0
272	AN EFFICIENT IMPLICIT MESH-FREE METHOD TO SOLVE TWO-DIMENSIONAL COMPRESSIBLE EULER EQUATIONS. International Journal of Modern Physics C, 2005, 16, 439-454.	1.7	35
273	AN EFFICIENT METHOD FOR FINDING THE EXACT SOLUTION OF NONLINEAR EVOLUTION EQUATIONS. Modern Physics Letters B, 2005, 19, 1703-1706.	1.9	2
274	A PLATFORM FOR DEVELOPING NEW LATTICE BOLTZMANN MODELS. International Journal of Modern Physics C, 2005, 16, 61-84.	1.7	10
275	NUMERICAL SOLUTION OF TRAVELING WAVE DIELECTROPHORESIS USING A MESHLESS FINITE DIFFERENCE SCHEME. Modern Physics Letters B, 2005, 19, 1739-1742.	1.9	0
276	TECHNIQUES TO ENHANCE FLUID MICRO-MIXING AND CHAOTIC MICROMIXERS. Modern Physics Letters B, 2005, 19, 1567-1570.	1.9	13
277	Chaotic micromixers using two-layer crossing channels to exhibit fast mixing at low Reynolds numbers. Lab on A Chip, 2005, 5, 748.	6.0	211
278	Particle number per cell and scaling factor effect on accuracy of DSMC simulation of micro flows. International Journal of Numerical Methods for Heat and Fluid Flow, 2005, 15, 827-841.	2.8	21
279	LSFD method for vibration analysis of plates with free edges. , 2005, , 1715-1722.		1
280	Development of a prototype micro-thermophotovoltaic power generator. Journal Physics D: Applied Physics, 2004, 37, 1017-1020.	2.8	55
281	A prototype microthermophotovoltaic power generator. Applied Physics Letters, 2004, 84, 3864-3866.	3.3	59
282	Comparative Studies of Three Approaches for GDQ Computation of Incompressible Navierâ€“Stokes Equations in Primitive Variable Form. International Journal of Computational Fluid Dynamics, 2004, 18, 401-412.	1.2	1
283	Lattice kinetic scheme for the incompressible viscous thermal flows on arbitrary meshes. Physical Review E, 2004, 69, 016703.	2.1	19
284	Predicting the temperature of a premixed flame in a microcombustor. Journal of Applied Physics, 2004, 96, 3524-3530.	2.5	19
285	Development of least-square-based two-dimensional finite-difference schemes and their application to simulate natural convection in a cavity. Computers and Fluids, 2004, 33, 137-154.	2.5	87
286	Investigation of Stability and Hydrodynamics of Different Lattice Boltzmann Models. Journal of Statistical Physics, 2004, 117, 665-680.	1.2	36
287	Manipulation of bioparticles using traveling wave dielectrophoresis: numerical approach. International Journal of Mechanics and Materials in Design, 2004, 1, 115-130.	3.0	8
288	Numerical study of eccentric Couette?Taylor flows and effect of eccentricity on flow patterns. Theoretical and Computational Fluid Dynamics, 2004, 18, 43-59.	2.2	23

#	Article	IF	Citations
289	Operator-splitting method for the analysis of cavitation in liquid-lubricated herringbone grooved journal bearings. International Journal for Numerical Methods in Fluids, 2004, 44, 765-775.	1.6	12
290	Numerical simulation of natural convection between two elliptical cylinders using DQ method. International Journal of Heat and Mass Transfer, 2004, 47, 797-808.	4.8	48
291	A 3D incompressible thermal lattice Boltzmann model and its application to simulate natural convection in a cubic cavity. Journal of Computational Physics, 2004, 193, 260-274.	3.8	141
292	Simulation of incompressible viscous flows past a circular cylinder by hybrid FD scheme and meshless least square-based finite difference method. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 727-744.	6.6	140
293	Solution of partial differential equations by a global radial basis function-based differential quadrature method. Engineering Analysis With Boundary Elements, 2004, 28, 1217-1226.	3.7	61
294	RADIAL BASIS FUNCTION-ENHANCED DOMAIN-FREE DISCRETIZATION METHOD AND ITS APPLICATIONS. Numerical Heat Transfer, Part B: Fundamentals, 2004, 46, 269-282.	0.9	15
295	Design, Fabrication, and Testing of a Prototype Microthermophotovoltaic System. Journal of Microelectromechanical Systems, 2004, 13, 851-856.	2.5	16
296	NEW LATTICE KINETIC SCHEMES FOR INCOMPRESSIBLE VISCOUS FLOWS. International Journal of Modern Physics C, 2004, 15, 1197-1213.	1.7	5
297	A lattice Boltzmann BGK model for simulation of micro flows. Europhysics Letters, 2004, 67, 600-606.	2.0	95
298	Analysis of dielectrophoretic electrode arrays for nanoparticle manipulation. Computational Materials Science, 2004, 30, 320-325.	3.0	19
299	Application of GDQ Method for Study of Mixed Convection in Horizontal Eccentric Annuli. International Journal of Computational Fluid Dynamics, 2004, 18, 71-79.	1.2	9
300	Microscale combustion research for application to micro thermophotovoltaic systems. Energy Conversion and Management, 2003, 44, 2625-2634.	9.2	132
301	Numerical computation of three-dimensional incompressible Navier-Stokes equations in primitive variable form by DQ method. International Journal for Numerical Methods in Fluids, 2003, 43, 345-368.	1.6	53
302	Numerical investigation of flows in Czochralski crystal growth by an axisymmetric lattice Boltzmann method. Journal of Computational Physics, 2003, 186, 295-307.	3.8	78
303	Simulation of flows around an impulsively started circular cylinder by Taylor series expansion- and least squares-based lattice Boltzmann method. Journal of Computational Physics, 2003, 188, 176-193.	3.8	62
304	Local radial basis function-based differential quadrature method and its application to solve two-dimensional incompressible Navierâ€“Stokes equations. Computer Methods in Applied Mechanics and Engineering, 2003, 192, 941-954.	6.6	409
305	Implementation of multi-grid approach in domain-free discretization method to speed up convergence. Computer Methods in Applied Mechanics and Engineering, 2003, 192, 2425-2438.	6.6	7
306	Research on micro-thermophotovoltaic power generators. Solar Energy Materials and Solar Cells, 2003, 80, 95-104.	6.2	37

#	Article	IF	Citations
307	Simplified thermal lattice Boltzmann model for incompressible thermal flows. Physical Review E, 2003, 68, 026701.	2.1	317
308	Numerical simulation of natural convection in a concentric annulus between a square outer cylinder and a circular inner cylinder using the Taylor-series-expansion and least-squares-based lattice Boltzmann method. Physical Review E, 2003, 67, 026701.	2.1	44
309	AN AXISYMMETRIC LATTICE BOLTZMANN MODEL FOR SIMULATION OF TAYLORâ€“COUETTE FLOWS BETWEEN TWO CONCENTRIC CYLINDERS. International Journal of Modern Physics C, 2003, 14, 785-796.	1.7	42
310	TAYLOR SERIES EXPANSION AND LEAST SQUARES-BASED LATTICE BOLTZMANN METHOD: THREE-DIMENSIONAL FORMULATION AND ITS APPLICATIONS. International Journal of Modern Physics C, 2003, 14, 925-944.	1.7	27
311	SIMULATION OF NATURAL CONVECTION BY TAYLOR SERIES EXPANSION- AND LEAST SQUARE-BASED LBM. International Journal of Modern Physics B, 2003, 17, 165-168.	2.0	0
312	Numerical and Theoretical Study of Î‘ Micro Tube Flow. International Journal of Nonlinear Sciences and Numerical Simulation, 2003, 4, .	1.0	1
313	SIMULATION OF INCOMPRESSIBLE FLOWS ACROSS MOVING BODIES USING MESHLESS FINITE DIFFRERENCING. , 2003, , .		0
314	APPLICATION OF GDQ METHOD FOR THE STUDY OF NATURAL CONVECTION IN HORIZONTAL ECCENTRIC ANNULI. Numerical Heat Transfer; Part A: Applications, 2002, 41, 803-815.	2.1	30
315	SIMULATION OF UNSTEADY INCOMPRESSIBLE FLOWS BY USING TAYLOR SERIES EXPANSION- AND LEAST SQUARE-BASED LATTICE BOLTZMANN METHOD. International Journal of Modern Physics C, 2002, 13, 719-738.	1.7	18
316	A numerical study of cavitation footâ€prints in liquidâ€lubricated asymmetrical herringbone grooved journal bearings. International Journal of Numerical Methods for Heat and Fluid Flow, 2002, 12, 518-540.	2.8	12
317	Development of microthermophotovoltaic system. Applied Physics Letters, 2002, 81, 5255-5257.	3.3	103
318	Application of lattice Boltzmann method to simulate microchannel flows. Physics of Fluids, 2002, 14, 2299.	4.0	282
319	Taylor-series expansion and least-squares-based lattice Boltzmann method: Two-dimensional formulation and its applications. Physical Review E, 2002, 65, 036708.	2.1	64
320	SIMULATION OF NATURAL CONVECTION IN A SQUARE CAVITY BY TAYLOR SERIES EXPANSION- AND LEAST SQUARES-BASED LATTICE BOLTZMANN METHOD. International Journal of Modern Physics C, 2002, 13, 1399-1414.	1.7	75
321	Micro Combustion Research for Micro Thermophotovoltaic Systems. , 2002, , 305.		1
322	Efficient computation of natural convection in a concentric annulus between an outer square cylinder and an inner circular cylinder. International Journal for Numerical Methods in Fluids, 2002, 38, 429-445.	1.6	135
323	Numerical analysis of flow and thermal fields in arbitrary eccentric annulus by differential quadrature method. Heat and Mass Transfer, 2002, 38, 597-608.	2.1	25
324	Development of RBF-DQ method for derivative approximation and its application to simulate natural convection in concentric annuli. Computational Mechanics, 2002, 29, 477-485.	4.0	60

#	Article	IF	Citations
325	Combustion in micro-cylindrical combustors with and without a backward facing step. Applied Thermal Engineering, 2002, 22, 1777-1787.	6.0	204
326	Domain-free discretization method for doubly connected domain and its application to simulate natural convection in eccentric annuli. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 1827-1841.	6.6	32
327	Block-marching in time with DQ discretization: an efficient method for time-dependent problems. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 4587-4597.	6.6	51
328	Numerical simulation of natural convection in a square cavity by SIMPLE-generalized differential quadrature method. Computers and Fluids, 2002, 31, 209-226.	2.5	41
329	Title is missing!. Journal of Statistical Physics, 2002, 107, 539-556.	1.2	16
330	Title is missing!. Journal of Statistical Physics, 2002, 107, 329-342.	1.2	20
331	Least-squares-based lattice Boltzmann method: A meshless approach for simulation of flows with complex geometry. Physical Review E, 2001, 64, 045701.	2.1	64
332	A new discretization method and its application to solve incompressible Navier-Stokes equations. Computational Mechanics, 2001, 27, 292-301.	4.0	18
333	Numerical study of wave interaction generated by two ships moving parallely in shallow water. Computer Methods in Applied Mechanics and Engineering, 2001, 190, 2099-2110.	6.6	15
334	Numerical study of grid distribution effect on accuracy of DQ analysis of beams and plates by error estimation of derivative approximation. International Journal for Numerical Methods in Engineering, 2001, 51, 159-179.	2.8	62
335	Numerical study of natural convection in an eccentric annulus between a square outer cylinder and a circular inner cylinder using DQ method. International Journal of Heat and Mass Transfer, 2001, 44, 3321-3333.	4.8	106
336	Analysis of micro-Couette flow using the Burnett equations. International Journal of Heat and Mass Transfer, 2001, 44, 4139-4146.	4.8	41
337	‹title›Numerical and theoretical study of gaseous flows in a microtube‹/title›. , 2001, , .		0
338	Free Vibration Analysis of Curvilinear Quadrilateral Plates by the Differential Quadrature Method. Journal of Computational Physics, 2000, 163, 452-466.	3.8	66
339	The application of special matrix product to differential quadrature solution of geometrically nonlinear bending of orthotropic rectangular plates. Computers and Structures, 2000, 74, 65-76.	4.4	70
340	Prediction of micro-channel flows using direct simulation Monte Carlo. Probabilistic Engineering Mechanics, 2000, 15, 213-219.	2.7	54
341	Analysis of elliptical waveguides by differential quadrature method. IEEE Transactions on Microwave Theory and Techniques, 2000, 48, 319-322.	4.6	27
342	Differential Quadrature and Its Application in Engineering. , 2000, , .		667

#	Article	IF	Citations
343	Application of Multi-Domain GDQ Method to Analysis of Waveguides with Rectangular Boundaries. Progress in Electromagnetics Research, 1999, 21, 1-19.	4.4	15
344	Treatment of mixed and nonuniform boundary conditions in GDQ vibration analysis of rectangular plates. Engineering Structures, 1999, 21, 125-134.	5.3	83
345	Solution of Helmholtz equation by differential quadrature method. Computer Methods in Applied Mechanics and Engineering, 1999, 175, 203-212.	6.6	14
346	Application of differential quadrature method to simulate natural convection in a concentric annulus. International Journal for Numerical Methods in Fluids, 1999, 30, 977-993.	1.6	45
347	Application of differential quadrature method to simulate natural convection in a concentric annulus. , 1999, 30, 977.		3
348	A Lyapunov Formulation for Efficient Solution of the Poisson and Convectionâ€“Diffusion Equations by the Differential Quadrature Method. Journal of Computational Physics, 1998, 141, 78-84.	3.8	6
349	Comparison of two approaches for implementing stream function boundary conditions in DQ simulation of natural convection in a square cavity. International Journal of Heat and Fluid Flow, 1998, 19, 59-68.	2.4	46
350	On the equivalence of generalized differential quadrature and highest order finite difference scheme. Computer Methods in Applied Mechanics and Engineering, 1998, 155, 249-260.	6.6	71
351	On the performance of three iterative methods for solution of GDQ algebraic equations. Computer Methods in Applied Mechanics and Engineering, 1998, 167, 1-15.	6.6	12
352	Mixing characteristics in a ventilated room with non-isothermal ceiling air supply. Building and Environment, 1998, 34, 245-251.	6.9	12
353	Different interface approximations in multiâ€domain GDQ simulation of Czochralski bulk flows. International Journal of Numerical Methods for Heat and Fluid Flow, 1998, 8, 424-444.	2.8	11
354	Analysis of Cylindrical Shells Using Generalized Differential Quadrature. Shock and Vibration, 1997, 4, 193-198.	0.6	125
355	Free vibration analysis of laminated composite cylindrical shells by DQM. Composites Part B: Engineering, 1997, 28, 267-274.	12.0	73
356	Fourier expansion-based differential quadrature and its application to Helmholtz eigenvalue problems. Communications in Numerical Methods in Engineering, 1997, 13, 643-653.	1.3	81
357	Computation of the propagation characteristics of TE and TM modes in waveguides with the use of the generalized differential quadrature method. Microwave and Optical Technology Letters, 1997, 14, 39-44.	1.4	4
358	EXPLICIT COMPUTATION OF WEIGHTING COEFFICIENTS IN THE HARMONIC DIFFERENTIAL QUADRATURE. Journal of Sound and Vibration, 1997, 204, 549-555.	3.9	111
359	A generalized approach for implementing general boundary conditions in the GDQ free vibration analysis of plates. International Journal of Solids and Structures, 1997, 34, 837-846.	2.7	125
360	Implementation of clamped and simply supported boundary conditions in the GDQ free vibration analysis of beams and plates. International Journal of Solids and Structures, 1997, 34, 819-835.	2.7	185

#	Article	IF	Citations
361	Numerical simulation of flows in Czochralski crystal growth by second-order upwind QUICK scheme. Journal of Crystal Growth, 1997, 173, 123-131.	1.5	19
362	An efficient approach for numerical simulation of flows in Czochralski crystal growth. Journal of Crystal Growth, 1997, 181, 427-436.	1.5	8
363	Fourier expansion-based differential quadrature and its application to Helmholtz eigenvalue problems. , 1997, 13, 643.		2
364	FREE VIBRATION ANALYSIS OF COMPOSITE LAMINATED CONICAL SHELLS BY GENERALIZED DIFFERENTIAL QUADRATURE. Journal of Sound and Vibration, 1996, 194, 587-604.	3.9	141
365	Numerical studies of unsteady boundary layer flows past an impulsively started circular cylinder by GDQ and GIQ approaches. Computer Methods in Applied Mechanics and Engineering, 1996, 135, 229-241.	6.6	18
366	An efficient approach for free vibration analysis of conical shells. International Journal of Mechanical Sciences, 1996, 38, 935-949.	6.7	92
367	Solutions of threeâ€dimensional boundary layer equations by global methods of generalized differentialâ€integral quadrature. International Journal of Numerical Methods for Heat and Fluid Flow, 1996, 6, 61-75.	2.8	14
368	Generalized differential and integral quadrature and their application to solve boundary layer equations. International Journal for Numerical Methods in Fluids, 1995, 21, 723-733.	1.6	48
369	Application of gdq scheme to simulate incompressible viscous flows around complex geometries. Mechanics Research Communications, 1995, 22, 319-325.	1.8	17
370	Calculation of Hypersonic Turbulent Flows Using the Parabolized Navier-Stokes Equations. , 1994, , .		0
371	Application of GDQ Scheme to Solve Incompressible Navier-Stokes Equations in the Curvilinear Coordinate System. , 1994, , .		2
372	Numerical solutions of incompressible Navier-Stokes equations by generalized differential quadrature. Finite Elements in Analysis and Design, 1994, 18, 83-97.	3.2	36
373	Application of GDQ scheme to simulate natural convection in a square cavity. International Communications in Heat and Mass Transfer, 1994, 21, 809-817.	5.6	16
374	Parallel simulation of incompressible viscous flows by generalized differential quadrature. Computing Systems in Engineering: an International Journal, 1992, 3, 271-281.	0.5	112
375	Application of generalized differential quadrature to solve two-dimensional incompressible Navier-Stokes equations. International Journal for Numerical Methods in Fluids, 1992, 15, 791-798.	1.6	746
376	A Simple Hydrodynamic-particle Method for Supersonic Rarefied Flows. Physics of Fluids, 0, , .	4.0	6
377	Wall Modelâ€Based Diffuseâ€Interface Immersed Boundary Method for Simulation of Incompressible Turbulent Flows. International Journal for Numerical Methods in Fluids, 0, , .	1.6	0