

Chang Shu

List of Publications by Year in descending order

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377
papers

16,902
citations

18482

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383
times ranked

6821
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Differential Quadrature and Its Application in Engineering. , 2000, , .		667
3	Diffuse interface model for incompressible two-phase flows with large density ratios. Journal of Computational Physics, 2007, 226, 2078-2095.	3.8	524
4	Fluid flow and heat transfer in wavy microchannels. International Journal of Heat and Mass Transfer, 2010, 53, 2760-2772.	4.8	429
5	A lattice Boltzmann model for multiphase flows with large density ratio. Journal of Computational Physics, 2006, 218, 353-371.	3.8	417
6	Local radial basis function-based differential quadrature method and its application to solve two-dimensional incompressible Navier-Stokes equations. Computer Methods in Applied Mechanics and Engineering, 2003, 192, 941-954.	6.6	409
7	Implicit velocity correction-based immersed boundary-lattice Boltzmann method and its applications. Journal of Computational Physics, 2009, 228, 1963-1979.	3.8	399
8	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
9	Simplified thermal lattice Boltzmann model for incompressible thermal flows. Physical Review E, 2003, 68, 026701.	2.1	317
10	Application of lattice Boltzmann method to simulate microchannel flows. Physics of Fluids, 2002, 14, 2299.	4.0	282
11	Fast flow field prediction over airfoils using deep learning approach. Physics of Fluids, 2019, 31, .	4.0	231
12	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
13	Combustion in micro-cylindrical combustors with and without a backward facing step. Applied Thermal Engineering, 2002, 22, 1777-1787.	6.0	204
14	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
15	Multiphase lattice Boltzmann flux solver for incompressible multiphase flows with large density ratio. Journal of Computational Physics, 2015, 280, 404-423.	3.8	174
16	A novel immersed boundary velocity correction-lattice Boltzmann method and its application to simulate flow past a circular cylinder. Journal of Computational Physics, 2007, 226, 1607-1622.	3.8	167
17	An SPH model for multiphase flows with complex interfaces and large density differences. Journal of Computational Physics, 2015, 283, 169-188.	3.8	154
18	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

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19	FREE VIBRATION ANALYSIS OF COMPOSITE LAMINATED CONICAL SHELLS BY GENERALIZED DIFFERENTIAL QUADRATURE. <i>Journal of Sound and Vibration</i> , 1996, 194, 587-604.	3.9	141
20	A 3D incompressible thermal lattice Boltzmann model and its application to simulate natural convection in a cubic cavity. <i>Journal of Computational Physics</i> , 2004, 193, 260-274.	3.8	141
21	Simulation of incompressible viscous flows past a circular cylinder by hybrid FD scheme and meshless least square-based finite difference method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004, 193, 727-744.	6.6	140
22	Efficient computation of natural convection in a concentric annulus between an outer square cylinder and an inner circular cylinder. <i>International Journal for Numerical Methods in Fluids</i> , 2002, 38, 429-445.	1.6	135
23	Microscale combustion research for application to micro thermophotovoltaic systems. <i>Energy Conversion and Management</i> , 2003, 44, 2625-2634.	9.2	132
24	Analysis of Cylindrical Shells Using Generalized Differential Quadrature. <i>Shock and Vibration</i> , 1997, 4, 193-198.	0.6	125
25	A generalized approach for implementing general boundary conditions in the GDQ free vibration analysis of plates. <i>International Journal of Solids and Structures</i> , 1997, 34, 837-846.	2.7	125
26	An improved immersed boundary-lattice Boltzmann method for simulating three-dimensional incompressible flows. <i>Journal of Computational Physics</i> , 2010, 229, 5022-5042.	3.8	124
27	Development of Lattice Boltzmann Flux Solver for Simulation of Incompressible Flows. <i>Advances in Applied Mathematics and Mechanics</i> , 2014, 6, 436-460.	1.2	120
28	Parallel simulation of incompressible viscous flows by generalized differential quadrature. <i>Computing Systems in Engineering: an International Journal</i> , 1992, 3, 271-281.	0.5	112
29	Inverse Design of Airfoil Using a Deep Convolutional Neural Network. <i>AIAA Journal</i> , 2019, 57, 993-1003.	2.6	112
30	EXPLICIT COMPUTATION OF WEIGHTING COEFFICIENTS IN THE HARMONIC DIFFERENTIAL QUADRATURE. <i>Journal of Sound and Vibration</i> , 1997, 204, 549-555.	3.9	111
31	An immersed boundary-lattice Boltzmann flux solver and its applications to fluid-structure interaction problems. <i>Journal of Fluids and Structures</i> , 2015, 54, 440-465.	3.4	108
32	Application of multi-block approach in the immersed boundary-lattice Boltzmann method for viscous fluid flows. <i>Journal of Computational Physics</i> , 2006, 218, 460-478.	3.8	107
33	Numerical study of natural convection in an eccentric annulus between a square outer cylinder and a circular inner cylinder using DQ method. <i>International Journal of Heat and Mass Transfer</i> , 2001, 44, 3321-3333.	4.8	106
34	Development of microthermophotovoltaic system. <i>Applied Physics Letters</i> , 2002, 81, 5255-5257.	3.3	103
35	Alternative method to construct equilibrium distribution functions in lattice-Boltzmann method simulation of inviscid compressible flows at high Mach number. <i>Physical Review E</i> , 2007, 75, 036706.	2.1	102
36	A numerical study on RCCI engine fueled by biodiesel/methanol. <i>Energy Conversion and Management</i> , 2015, 89, 798-807.	9.2	102

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37	A lattice Boltzmann BGK model for simulation of micro flows. <i>Europhysics Letters</i> , 2004, 67, 600-606.	2.0	95
38	Boundary condition-enforced immersed boundary method for thermal flow problems with Dirichlet temperature condition and its applications. <i>Computers and Fluids</i> , 2012, 57, 40-51.	2.5	94
39	An efficient approach for free vibration analysis of conical shells. <i>International Journal of Mechanical Sciences</i> , 1996, 38, 935-949.	6.7	92
40	Efficient Aerodynamic Shape Optimization with Deep-Learning-Based Geometric Filtering. <i>AIAA Journal</i> , 2020, 58, 4243-4259.	2.6	90
41	Development of least-square-based two-dimensional finite-difference schemes and their application to simulate natural convection in a cavity. <i>Computers and Fluids</i> , 2004, 33, 137-154.	2.5	87
42	Treatment of mixed and nonuniform boundary conditions in GDQ vibration analysis of rectangular plates. <i>Engineering Structures</i> , 1999, 21, 125-134.	5.3	83
43	An upwind local RBF-DQ method for simulation of inviscid compressible flows. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2005, 194, 2001-2017.	6.6	82
44	An improved multiphase lattice Boltzmann flux solver for three-dimensional flows with large density ratio and high Reynolds number. <i>Journal of Computational Physics</i> , 2015, 302, 41-58.	3.8	82
45	Fourier expansion-based differential quadrature and its application to Helmholtz eigenvalue problems. <i>Communications in Numerical Methods in Engineering</i> , 1997, 13, 643-653.	1.3	81
46	Lattice Boltzmann interface capturing method for incompressible flows. <i>Physical Review E</i> , 2005, 72, 056705.	2.1	79
47	Numerical investigation of flows in Czochralski crystal growth by an axisymmetric lattice Boltzmann method. <i>Journal of Computational Physics</i> , 2003, 186, 295-307.	3.8	78
48	Thermal lattice Boltzmann flux solver and its application for simulation of incompressible thermal flows. <i>Computers and Fluids</i> , 2014, 94, 98-111.	2.5	77
49	A mass-conserved diffuse interface method and its application for incompressible multiphase flows with large density ratio. <i>Journal of Computational Physics</i> , 2015, 290, 336-351.	3.8	77
50	Numerical computation of three-dimensional incompressible viscous flows in the primitive variable form by local multiquadric differential quadrature method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006, 195, 516-533.	6.6	76
51	SIMULATION OF NATURAL CONVECTION IN A SQUARE CAVITY BY TAYLOR SERIES EXPANSION- AND LEAST SQUARES-BASED LATTICE BOLTZMANN METHOD. <i>International Journal of Modern Physics C</i> , 2002, 13, 1399-1414.	1.7	75
52	Free vibration analysis of laminated composite cylindrical shells by DQM. <i>Composites Part B: Engineering</i> , 1997, 28, 267-274.	12.0	73
53	Effect of current-collector structure on performance of passive micro direct methanol fuel cell. <i>Journal of Power Sources</i> , 2007, 164, 549-554.	7.8	73
54	On the equivalence of generalized differential quadrature and highest order finite difference scheme. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1998, 155, 249-260.	6.6	71

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55	The application of special matrix product to differential quadrature solution of geometrically nonlinear bending of orthotropic rectangular plates. <i>Computers and Structures</i> , 2000, 74, 65-76.	4.4	70
56	Free-energy-based lattice Boltzmann model for the simulation of multiphase flows with density contrast. <i>Physical Review E</i> , 2014, 89, 033309.	2.1	69
57	A Simplified Lattice Boltzmann Method without Evolution of Distribution Function. <i>Advances in Applied Mathematics and Mechanics</i> , 2017, 9, 1-22.	1.2	68
58	Integrated radial basis functions-based differential quadrature method and its performance. <i>International Journal for Numerical Methods in Fluids</i> , 2007, 53, 969-984.	1.6	67
59	Free Vibration Analysis of Curvilinear Quadrilateral Plates by the Differential Quadrature Method. <i>Journal of Computational Physics</i> , 2000, 163, 452-466.	3.8	66
60	An efficient immersed boundary method for thermal flow problems with heat flux boundary conditions. <i>International Journal of Heat and Mass Transfer</i> , 2013, 64, 694-705.	4.8	65
61	Least-squares-based lattice Boltzmann method: A meshless approach for simulation of flows with complex geometry. <i>Physical Review E</i> , 2001, 64, 045701.	2.1	64
62	Taylor-series expansion and least-squares-based lattice Boltzmann method: Two-dimensional formulation and its applications. <i>Physical Review E</i> , 2002, 65, 036708.	2.1	64
63	A thermal lattice Boltzmann model with diffuse scattering boundary condition for micro thermal flows. <i>Computers and Fluids</i> , 2007, 36, 273-281.	2.5	64
64	Flow control of a circular cylinder by using an attached flexible filament. <i>Physics of Fluids</i> , 2014, 26, .	4.0	64
65	Numerical study of grid distribution effect on accuracy of DQ analysis of beams and plates by error estimation of derivative approximation. <i>International Journal for Numerical Methods in Engineering</i> , 2001, 51, 159-179.	2.8	62
66	Simulation of flows around an impulsively started circular cylinder by Taylor series expansion- and least squares-based lattice Boltzmann method. <i>Journal of Computational Physics</i> , 2003, 188, 176-193.	3.8	62
67	Solution of partial differential equations by a global radial basis function-based differential quadrature method. <i>Engineering Analysis With Boundary Elements</i> , 2004, 28, 1217-1226.	3.7	61
68	Hybrid lattice Boltzmann finite-difference simulation of axisymmetric swirling and rotating flows. <i>International Journal for Numerical Methods in Fluids</i> , 2007, 53, 1707-1726.	1.6	61
69	Development of RBF-DQ method for derivative approximation and its application to simulate natural convection in concentric annuli. <i>Computational Mechanics</i> , 2002, 29, 477-485.	4.0	60
70	A prototype microthermophotovoltaic power generator. <i>Applied Physics Letters</i> , 2004, 84, 3864-3866.	3.3	59
71	A Lattice Boltzmann Kinetic Model for Microflow and Heat Transfer. <i>Journal of Statistical Physics</i> , 2005, 121, 239-255.	1.2	56
72	A generalized finite-difference (GFD) ALE scheme for incompressible flows around moving solid bodies on hybrid meshfree Cartesian grids. <i>Journal of Computational Physics</i> , 2006, 218, 510-548.	3.8	56

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73	AN AXISYMMETRIC INCOMPRESSIBLE LATTICE BOLTZMANN MODEL FOR PIPE FLOW. International Journal of Modern Physics C, 2006, 17, 645-661.	1.7	56
74	Numerical study of flow characteristics behind a stationary circular cylinder with a flapping plate. Physics of Fluids, 2011, 23, .	4.0	56
75	Development of a prototype micro-thermophotovoltaic power generator. Journal Physics D: Applied Physics, 2004, 37, 1017-1020.	2.8	55
76	Prediction of micro-channel flows using direct simulation Monte Carlo. Probabilistic Engineering Mechanics, 2000, 15, 213-219.	2.7	54
77	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
78	Numerical study on the power extraction performance of a flapping foil with a flexible tail. Physics of Fluids, 2015, 27, .	4.0	54
79	Simplified multiphase lattice Boltzmann method for simulating multiphase flows with large density ratios and complex interfaces. Physical Review E, 2018, 98, .	2.1	54
80	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
81	Study on vacancy formation in ferroelectric PbTiO ₃ from ab initio. Applied Physics Letters, 2006, 88, 142902.	3.3	53
82	Pitching-motion-activated flapping foil near solid walls for power extraction: A numerical investigation. Physics of Fluids, 2014, 26, .	4.0	53
83	Lattice Boltzmann study of droplet motion inside a grooved channel. Physics of Fluids, 2009, 21, .	4.0	52
84	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
85	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
86	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
87	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
88	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
89	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
90	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

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91	A simple distribution function-based gas-kinetic scheme for simulation of viscous incompressible and compressible flows. <i>Journal of Computational Physics</i> , 2014, 274, 611-632.	3.8	47
92	Comparison of two approaches for implementing stream function boundary conditions in DQ simulation of natural convection in a square cavity. <i>International Journal of Heat and Fluid Flow</i> , 1998, 19, 59-68.	2.4	46
93	Error estimates of local multiquadric-based differential quadrature (LMQDQ) method through numerical experiments. <i>International Journal for Numerical Methods in Engineering</i> , 2005, 63, 1513-1529.	2.8	46
94	A solution-adaptive lattice Boltzmann method for two-dimensional incompressible viscous flows. <i>Journal of Computational Physics</i> , 2011, 230, 2246-2269.	3.8	46
95	Application of differential quadrature method to simulate natural convection in a concentric annulus. <i>International Journal for Numerical Methods in Fluids</i> , 1999, 30, 977-993.	1.6	45
96	MICROTHERMOPHOTOVOLTAICS POWER SYSTEM FOR PORTABLE MEMS DEVICES. <i>Microscale Thermophysical Engineering</i> , 2005, 9, 85-97.	1.2	45
97	Circular function-based gas-kinetic scheme for simulation of inviscid compressible flows. <i>Journal of Computational Physics</i> , 2013, 255, 540-557.	3.8	45
98	Immersed boundary-simplified lattice Boltzmann method for incompressible viscous flows. <i>Physics of Fluids</i> , 2018, 30, .	4.0	45
99	Immersed boundary-simplified thermal lattice Boltzmann method for incompressible thermal flows. <i>Physics of Fluids</i> , 2020, 32, .	4.0	45
100	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. <i>Physical Review E</i> , 2003, 67, 026701.	2.1	44
101	Numerical investigation of vortex-induced vibration of a circular cylinder with a hinged flat plate. <i>Physics of Fluids</i> , 2014, 26, .	4.0	44
102	Influence of the Reynolds number on chaotic mixing in a spatially periodic micromixer and its characterization using dynamical system techniques. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 53-61.	2.6	43
103	Experimental study of micro-thermophotovoltaic systems with different combustor configurations. <i>Energy Conversion and Management</i> , 2007, 48, 1238-1244.	9.2	43
104	Flow of second-order fluid in a curved duct with square cross-section. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2010, 165, 323-339.	2.4	43
105	On improvements of simplified and highly stable lattice Boltzmann method: Formulations, boundary treatment, and stability analysis. <i>International Journal for Numerical Methods in Fluids</i> , 2018, 87, 161-179.	1.6	43
106	AN AXISYMMETRIC LATTICE BOLTZMANN MODEL FOR SIMULATION OF TAYLOR-COUETTE FLOWS BETWEEN TWO CONCENTRIC CYLINDERS. <i>International Journal of Modern Physics C</i> , 2003, 14, 785-796.	1.7	42
107	Study of catalytic combustion and its effect on microthermophotovoltaic power generators. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 4252-4255.	2.8	42
108	Numerical simulation of flows from free molecular regime to continuum regime by a DVM with streaming and collision processes. <i>Journal of Computational Physics</i> , 2016, 306, 291-310.	3.8	42

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109	Analysis of micro-Couette flow using the Burnett equations. International Journal of Heat and Mass Transfer, 2001, 44, 4139-4146.	4.8	41
110	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
111	THERMAL CURVED BOUNDARY TREATMENT FOR THE THERMAL LATTICE BOLTZMANN EQUATION. International Journal of Modern Physics C, 2006, 17, 631-643.	1.7	41
112	From Lattice Boltzmann Method to Lattice Boltzmann Flux Solver. Entropy, 2015, 17, 7713-7735.	2.2	41
113	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
114	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
115	Highly accurate simplified lattice Boltzmann method. Physics of Fluids, 2018, 30, .	4.0	40
116	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
117	Development of LBGK and incompressible LBGK-based lattice Boltzmann flux solvers for simulation of incompressible flows. International Journal for Numerical Methods in Fluids, 2014, 75, 344-364.	1.6	39
118	An immersed boundary-simplified sphere function-based gas kinetic scheme for simulation of 3D incompressible flows. Physics of Fluids, 2017, 29, .	4.0	39
119	Numerical investigation of transporting droplets by spatiotemporally controlling substrate wettability. Journal of Colloid and Interface Science, 2008, 328, 124-133.	9.4	38
120	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
121	An improved discrete velocity method (DVM) for efficient simulation of flows in all flow regimes. Physics of Fluids, 2018, 30, .	4.0	38
122	Research on micro-thermophotovoltaic power generators. Solar Energy Materials and Solar Cells, 2003, 80, 95-104.	6.2	37
123	An axisymmetric incompressible lattice BGC 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
124	Numerical solutions of incompressible Navier-Stokes equations by generalized differential quadrature. Finite Elements in Analysis and Design, 1994, 18, 83-97.	3.2	36
125	Investigation of Stability and Hydrodynamics of Different Lattice Boltzmann Models. Journal of Statistical Physics, 2004, 117, 665-680.	1.2	36
126	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

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127	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
128	A stencil adaptive algorithm for finite difference solution of incompressible viscous flows. Journal of Computational Physics, 2006, 214, 397-420.	3.8	34
129	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
130	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
131	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
132	Simulation of three-dimensional flows over moving objects by an improved immersed boundary-lattice Boltzmann method. International Journal for Numerical Methods in Fluids, 2012, 68, 977-1004.	1.6	33
133	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
134	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
135	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
136	A fractional step lattice Boltzmann method for simulating high Reynolds number flows. Mathematics and Computers in Simulation, 2006, 72, 201-205.	4.4	31
137	Computational investigation of B-site donor doping effect on fatigue behavior of lead zirconate titanate. Applied Physics Letters, 2006, 89, 152909.	3.3	31
138	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
139	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
140	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
141	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
142	Simplified lattice Boltzmann method for non-Newtonian power-law fluid flows. International Journal for Numerical Methods in Fluids, 2020, 92, 38-54.	1.6	31
143	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
144	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

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145	Fluid Dynamics of Flapping Insect Wing in Ground Effect. <i>Journal of Bionic Engineering</i> , 2014, 11, 52-60.	5.0	30
146	A free energy-based surface tension force model for simulation of multiphase flows by level-set method. <i>Journal of Computational Physics</i> , 2017, 345, 404-426.	3.8	30
147	A fractional step axisymmetric lattice Boltzmann flux solver for incompressible swirling and rotating flows. <i>Computers and Fluids</i> , 2014, 96, 204-214.	2.5	29
148	A boundary condition-enforced immersed boundary method for compressible viscous flows. <i>Computers and Fluids</i> , 2016, 136, 104-113.	2.5	29
149	An efficient immersed boundary-lattice Boltzmann flux solver for simulation of 3D incompressible flows with complex geometry. <i>Computers and Fluids</i> , 2016, 124, 54-66.	2.5	29
150	Development of an immersed boundary-phase field-lattice Boltzmann method for Neumann boundary condition to study contact line dynamics. <i>Journal of Computational Physics</i> , 2013, 234, 8-32.	3.8	28
151	An adaptive mesh refinement-multiphase lattice Boltzmann flux solver for simulation of complex binary fluid flows. <i>Physics of Fluids</i> , 2017, 29, .	4.0	28
152	Analysis of elliptical waveguides by differential quadrature method. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2000, 48, 319-322.	4.6	27
153	TAYLOR SERIES EXPANSION AND LEAST SQUARES-BASED LATTICE BOLTZMANN METHOD: THREE-DIMENSIONAL FORMULATION AND ITS APPLICATIONS. <i>International Journal of Modern Physics C</i> , 2003, 14, 925-944.	1.7	27
154	An adaptive immersed boundary-lattice Boltzmann method for simulating a flapping foil in ground effect. <i>Computers and Fluids</i> , 2015, 106, 171-184.	2.5	27
155	Development of a discrete gas-kinetic scheme for simulation of two-dimensional viscous incompressible and compressible flows. <i>Physical Review E</i> , 2016, 93, 033311.	2.1	27
156	Three-dimensional simplified and unconditionally stable lattice Boltzmann method for incompressible isothermal and thermal flows. <i>Physics of Fluids</i> , 2017, 29, 053601.	4.0	27
157	Lattice Boltzmann method simulation gas slip flow in long microtubes. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2007, 17, 587-607.	2.8	26
158	SIMULATION OF SHOCK-WAVE PROPAGATION WITH FINITE VOLUME LATTICE BOLTZMANN METHOD. <i>International Journal of Modern Physics C</i> , 2007, 18, 447-454.	1.7	26
159	A LATTICE BOLTZMANN METHOD-BASED FLUX SOLVER AND ITS APPLICATION TO SOLVE SHOCK TUBE PROBLEM. <i>Modern Physics Letters B</i> , 2009, 23, 313-316.	1.9	26
160	Comparative study of discrete velocity method and high-order lattice Boltzmann method for simulation of rarefied flows. <i>Computers and Fluids</i> , 2017, 146, 125-142.	2.5	26
161	Fluid-structure interaction simulation based on immersed boundary-lattice Boltzmann flux solver and absolute nodal coordinate formula. <i>Physics of Fluids</i> , 2020, 32, .	4.0	26
162	An improved multiphase lattice Boltzmann flux solver for the simulation of incompressible flow with large density ratio and complex interface. <i>Physics of Fluids</i> , 2021, 33, 033306.	4.0	26

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