Yikun Wei

List of Publications by Year
in descending order

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42	549	686830 13	676716 22
papers	citations	h-index	g-index

42	42	42	298
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Simulations of natural convection heat transfer in an enclosure at different Rayleigh number using lattice Boltzmann method. Computers and Fluids, 2016, 124, 30-38.	1.3	55
2	Forced convection for flow across two tandem cylinders with rounded corners in a channel. International Journal of Heat and Mass Transfer, 2019, 130, 1053-1069.	2.5	52
3	A novel two-dimensional coupled lattice Boltzmann model for thermal incompressible flows. Applied Mathematics and Computation, 2018, 339, 556-567.	1.4	44
4	A bounce back-immersed boundary-lattice Boltzmann model for curved boundary. Applied Mathematical Modelling, 2020, 81, 428-440.	2.2	40
5	A novel two-dimensional coupled lattice Boltzmann model for incompressible flow in application of turbulence Rayleighâ€“Taylor instability. Computers and Fluids, 2017, 156, 97-102.	1.3	35
6	Effects of vortex structure on performance characteristics of a multiblade fan with inclined tongue. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2019, 233, 1007-1021.	0.8	28
7	Partitioning effect on natural convection in a circular enclosure with an asymmetrically placed inclined plate. International Communications in Heat and Mass Transfer, 2018, 90, 11-22.	2.9	21
8	A simple lattice Boltzmann model for turbulence Rayleighâ€“BÃ©nard thermal convection. Computers and Fluids, 2015, 118, 167-171.	1.3	20
9	Numerical simulation of the flow around two square cylinders using the lattice Boltzmann method. Physics of Fluids, 2021, 33, .	1.6	20
10	Experimental investigations on the performance and noise characteristics of a forward-curved fan with the stepped tongue. Measurement and Control, 2019, 52, 1480-1488.	0.9	19
11	A Numerical Study on Entropy Generation in Two-Dimensional Rayleigh-BÃ©nard Convection at Different Prandtl Number. Entropy, 2017, 19, 443.	1.1	17
12	A simple direct heating thermal immersed boundary-lattice Boltzmann method for its application in incompressible flow. Computers and Mathematics With Applications, 2020, 80, 1633-1649.	1.4	16
13	Vortex shedding characteristics around a circular cylinder with flexible film. European Journal of Mechanics, B/Fluids, 2019, 77, 201-210.	1.2	14
14	Numerical and experimental investigations on the flow and noise characteristics in a centrifugal fan with step tongue volutes. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 2979-2993.	1.1	13
15	Numerical Investigation of Flow Characteristics in the Obstructed Realistic Human Upper Airway. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-10.	0.7	11
16	Study on Bifurcation and Dual Solutions in Natural Convection in a Horizontal Annulus with Rotating Inner Cylinder Using Thermal Immersed Boundary-Lattice Boltzmann Method. Entropy, 2018, 20, 733.	1.1	11
17	Numerical Study on Entropy Generation in Thermal Convection with Differentially Discrete Heat Boundary Conditions. Entropy, 2018, 20, 351.	1.1	11
18	Investigation on Vortex Characteristics of a Multi-Blade Centrifugal Fan near Volute Outlet Region. Processes, 2020, 8, 1240.	1.3	11

#	Article	IF	Citations
19	Lattice Boltzmann method for fractional Cahn-Hilliard equation. Communications in Nonlinear Science and Numerical Simulation, 2020, 91, 105443.	1.7	11
20	Numerical simulations of flow around three cylinders using momentum exchange-based immersed boundary-lattice Boltzmann method. Ocean Engineering, 2022, 247, 110706.	1.9	10
21	Optimization of Blade Profile of a Plenum Fan. International Journal of Fluid Machinery and Systems, 2016, 9, 95-106.	0.5	8
22	An improved prediction model of vortex shedding noise from blades of fans. Journal of Thermal Science, 2016, 25, 526-531.	0.9	8
23	Effects of Single-arc Blade Profile Length on the Performance of a Forward Multiblade Fan. Processes, 2019, 7, 629.	1.3	8
24	Entropy Generation Rates in Two-Dimensional Rayleighâ€“Taylor Turbulence Mixing. Entropy, 2018, 20, 738.	1.1	7
25	Statistics of Heat Transfer in Two-Dimensional Turbulent Rayleigh-BÃ©nard Convection at Various Prandtl Number. Entropy, 2018, 20, 582.	1.1	7
26	Numerical simulation of motion characteristics of flexible fresh tea leaf in Poiseuille shear flow via combined immersed boundaryâ€“lattice Boltzmann method. International Journal of Modern Physics C, 2019, 30, 1950038.	0.8	7
27	Flow instability in a volute-free centrifugal fan subjected to non-axisymmetric pre-swirl flow from upstream bended inflow tube. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2022, 236, 689-713.	0.8	7
28	Unsteady Flow Characteristics of Rotating Stall and Surging in a Backward Centrifugal Fan at Low Flow-Rate Conditions. Processes, 2020, 8, 872.	1.3	6
29	Time Evolution Features of Entropy Generation Rate in Turbulent Rayleigh-BÃ©nard Convection with Mixed Insulating and Conducting Boundary Conditions. Entropy, 2020, 22, 672.	1.1	6
30	Numerical Simulations of the Motion and Deformation of Three RBCs during Poiseuille Flow through a Constricted Vessel Using IB-LBM. Computational and Mathematical Methods in Medicine, 2018, 2018, 1-12.	0.7	4
31	Study of flapping filaments using the immersed boundary-lattice Boltzmann method. Textile Reseach Journal, 2019, 89, 3127-3136.	1.1	4
32	Reduction of aerodynamic noise of single-inlet centrifugal fan with inclined volute tongue. Measurement and Control, 2020, 53, 1376-1387.	0.9	4
33	A novel thermal lattice Boltzmann model with heat source and its application in incompressible flow. Applied Mathematics and Computation, 2022, 427, 127167.	1.4	4
34	Small-scale fluctuation and scaling law of mixing in three-dimensional rotating turbulent Rayleigh-Taylor instability. Physical Review E, 2022, 105, 015103.	0.8	3
35	Blade shape optimization and internal-flow characteristics of the backward non-volute centrifugal fan. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2022, 236, 673-688.	0.8	3
36	Numerical investigation on buoyancy-driven flow over a circular cylinder in a channel with nonparallel walls. Numerical Heat Transfer; Part A: Applications, 2022, 82, 299-316.	1.2	2

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37	Investigation on flapping dynamics and wake characteristics of a flexible plate in nonlinear hysteresis region. International Journal of Modern Physics C, 2020, 31, 2050164.	0.8	1
38	Temporalâ€“Spatial Evolution of Kinetic and Thermal Energy Dissipation Rates in a Three-Dimensional Turbulent Rayleighâ€“Taylor Mixing Zone. Entropy, 2020, 22, 652.	1.1	1
39	Numerical Simulations of a Bubble Growth and Departure on the Horizontal Wall Using Thermal Lattice Boltzmann Method. Journal of Computational Multiphase Flows, 2015, 7, 111-116.	0.8	0
40	Temporal Evolution and Scaling of Mixing in Turbulent Thermal Convection for Inhomogeneous Boundary Conditions. Advances in Applied Mathematics and Mechanics, 2017, 9, 1035-1051.	0.7	0
41	Effects of nondimensional distance between two square cylinders on the dissipation characteristics of the complex flow. International Journal of Modern Physics C, 0, , 2150146.	0.8	0
42	Simulation of Cardiac Flow under the Septal Defect Based on Lattice Boltzmann Method. Entropy, 2022, 24, 187.	1.1	0