Wei Zhang

List of Publications by Year
in descending order

50	1,258	430442	377514
papers	citations	18	34
		h-index	g-index

50	50	50	1045
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Numerics of the lattice Boltzmann method: Effects of collision models on the lattice Boltzmann simulations. Physical Review E, 2011, 83, 056710.	0.8	287
2	Scanning PIV investigation of the laminar separation bubble on a SD7003 airfoil. Experiments in Fluids, 2008, 45, 725-743.	1.1	76
3	Large-eddy simulation of flow over a cylinder with from to : a skin-friction perspective. Journal of Fluid Mechanics, 2017, 820, 121-158.	1.4	60
4	A direct numerical simulation investigation of the synthetic jet frequency effects on separation control of low-Re flow past an airfoil. Physics of Fluids, 2015, 27, .	1.6	55
5	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
6	Understanding the effect of hydroxyl/epoxy group on water desalination through lamellar graphene oxide membranes via molecular dynamics simulation. Desalination, 2020, 491, 114560.	4.0	47
7	Conjugate conduction-natural convection in an enclosure with time-periodic sidewall temperature and inclination. International Journal of Heat and Fluid Flow, 2011, 32, 52-64.	1.1	43
8	Geometrical effects on the airfoil flow separation and transition. Computers and Fluids, 2015, 116, 60-73.	1.3	41
9	Low-Re flow past an isolated cylinder with rounded corners. Computers and Fluids, 2016, 136, 384-401.	1.3	41
10	BiGlobal linear stability analysis on low-Re flow past an airfoil at high angle of attack. Physics of Fluids, 2016, 28, .	1.6	39
11	Unsteady mixed convection in a square enclosure with an inner cylinder rotating in a bi-directional and time-periodic mode. International Journal of Heat and Mass Transfer, 2019, 136, 563-580.	2.5	39
12	Assessment of spanwise domain size effect on the transitional flow past an airfoil. Computers and Fluids, 2016, 124, 39-53.	1.3	37
13	Transient behaviors of mixed convection in a square enclosure with an inner impulsively rotating circular cylinder. International Communications in Heat and Mass Transfer, 2018, 98, 143-154.	2.9	31
14	Wall-modelled large-eddy simulation of turbulent flow past airfoils. Journal of Fluid Mechanics, 2019, 873, 174-210.	1.4	31
15	A Meshless Local Radial Basis Function Method for Two-Dimensional Incompressible Navier-Stokes Equations. Numerical Heat Transfer, Part B: Fundamentals, 2015, 67, 320-337.	0.6	27
16	Unsteady characteristics of low-Re flow past two tandem cylinders. Theoretical and Computational Fluid Dynamics, 2018, 32, 475-493.	0.9	27
17	Forced convection of flow past two tandem rectangular cylinders in a channel. Numerical Heat Transfer; Part A: Applications, 2017, 72, 89-106.	1.2	25
18	An explicit Chebyshev pseudospectral multigrid method for incompressible Navier–Stokes equations. Computers and Fluids, 2010, 39, 178-188.	1.3	24

#	Article	IF	Citations
19	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
20	Quantification of wake unsteadiness for low-Re flow across two staggered cylinders. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 6892-6909.	1.1	20
21	Natural convection in square enclosure induced by inner circular cylinder with time-periodic pulsating temperature. International Journal of Heat and Mass Transfer, 2015, 82, 16-25.	2.5	19
22	A Pseudospectral Multidomain Method for Conjugate Conduction-Convection in Enclosures. Numerical Heat Transfer, Part B: Fundamentals, 2010, 57, 260-282.	0.6	18
23	Natural Convection Heat Transfer in a Cubic Cavity Submitted to Time-Periodic Sidewall Temperature. Numerical Heat Transfer; Part A: Applications, 2015, 67, 13-32.	1.2	16
24	Charge-tunable water transport through boron nitride nanotubes. Journal of Molecular Liquids, 2018, 258, 98-105.	2.3	16
25	Flow Unsteadiness and Stability Characteristics of Low-Re Flow Past an Inclined Triangular Cylinder. Journal of Fluids Engineering, Transactions of the ASME, 2017, 139, .	0.8	15
26	Numerical simulation and global linear stability analysis of low-Re flow past a heated circular cylinder. International Journal of Heat and Mass Transfer, 2016, 98, 584-595.	2.5	14
27	Conjugate Wall Conduction-Fluid Natural Convection in a Three-Dimensional Inclined Enclosure. Numerical Heat Transfer; Part A: Applications, 2012, 61, 122-141.	1.2	13
28	Mixed convection heat transfer from confined tandem square cylinders in a horizontal channel. International Journal of Heat and Mass Transfer, 2013, 66, 625-631.	2.5	13
29	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
30	A high-accuracy temporal–spatial pseudospectral method for time-periodic unsteady fluid flow and heat transfer problems. International Journal of Computational Fluid Dynamics, 2011, 25, 191-206.	0.5	12
31	Natural convection in a circular enclosure with an internal cylinder of regular polygon geometry. AIP Advances, 2019, 9, 065023.	0.6	9
32	Numerical Study on Conjugate Conduction–Convection in a Cubic Enclosure Submitted to Time-Periodic Sidewall Temperature. Journal of Heat Transfer, 2013, 135, .	1.2	8
33	A Multidomain Chebyshev Pseudo-Spectral Method for Fluid Flow and Heat Transfer from Square Cylinders. Numerical Heat Transfer, Part B: Fundamentals, 2015, 68, 224-238.	0.6	8
34	Effect of Corner Radius in Stabilizing the Low-Re Flow Past a Cylinder. Journal of Fluids Engineering, Transactions of the ASME, 2017, 139, .	0.8	8
35	Effects of an Inclined Blade on the Performance of a Sirocco Fan. Applied Sciences (Switzerland), 2019, 9, 3154.	1.3	7
36	Molecular dynamics study on loading mechanism of chitosan into boron nitride nanotubes. Journal of Molecular Liquids, 2020, 297, 111753.	2.3	7

#	Article	IF	Citations
37	Experimental and Comparative RANS/URANS Investigations on the Effect of Radius of Volute Tongue on the Aerodynamics and Aeroacoustics of a Sirocco Fan. Processes, 2020, 8, 1442.	1.3	7
38	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
39	Evolution Characteristics of Separated Vortices and Near-Wall Flow in a Centrifugal Impeller in an Off-Designed Condition. Applied Sciences (Switzerland), 2020, 10, 8209.	1.3	5
40	Numerical Simulation of Spacing Effects on the Flow Past Two 2:1 Rectangular Cylinders in Tandem at Re = 200. , 2012, , .		4
41	Reduction of aerodynamic noise of single-inlet centrifugal fan with inclined volute tongue. Measurement and Control, 2020, 53, 1376-1387.	0.9	4
42	Effect of surface curvature on destabilization and unsteadiness of low-Re flow across two tandem elliptic cylinders. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 6080-6098.	1.1	4
43	Effects of stagnating and thermal shielding of an upstream promoter on forced convection of flow past a square cylinder in a channel. Numerical Heat Transfer; Part A: Applications, 0, , 1-21.	1.2	3
44	Effect of an internal thermal-conductive cylinder on the conjugate conduction-convection in an enclosure. Numerical Heat Transfer; Part A: Applications, 0, , 1-19.	1.2	2
45	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
46	Effect of Orientation and Aspect Ratio of an Internal Flat Plate on Natural Convection in a Circular Enclosure. Processes, 2019, 7, 905.	1.3	1
47	Multicellular convection flow in a cylindrical enclosure partitioned by a plate. Numerical Heat Transfer; Part A: Applications, 2019, 76, 760-778.	1.2	0
48	Nonlinear Multiplicative Schwarz Preconditioning in Natural Convection Cavity Flow. Lecture Notes in Computational Science and Engineering, 2017, , 227-235.	0.1	0
49	Numerical investigation on separated turbulent flow in a three-dimensional U-turn duct with spanwise diverging. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622110293.	1.1	0
50	Transient separation and fluctuation of turbulent flow in an axisymmetric U-turn channel perturbed by periodically passing gust inflow. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622210819.	1.1	0