Zhi-Gang Feng

List of Publications by Year
in descending order

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45 papers	2,518 citations	471509 17 h-index	414414 32 g-index
45 all docs	45 docs citations	45 times ranked	1533 citing authors

#	Article	IF	Citations
1	The immersed boundary-lattice Boltzmann method for solving fluidâ€“particles interaction problems. Journal of Computational Physics, 2004, 195, 602-628.	3.8	858
2	Proteus: a direct forcing method in the simulations of particulate flows. Journal of Computational Physics, 2005, 202, 20-51.	3.8	416
3	A numerical study on the transient heat transfer from a sphere at high Reynolds and Peclet numbers. International Journal of Heat and Mass Transfer, 2000, 43, 219-229.	4.8	142
4	Heat transfer in particulate flows with Direct Numerical Simulation (DNS). International Journal of Heat and Mass Transfer, 2009, 52, 777-786.	4.8	140
5	Robust treatment of no-slip boundary condition and velocity updating for the lattice-Boltzmann simulation of particulate flows. Computers and Fluids, 2009, 38, 370-381.	2.5	138
6	Drag Coefficients of Viscous Spheres at Intermediate and High Reynolds Numbers. Journal of Fluids Engineering, Transactions of the ASME, 2001, 123, 841-849.	1.5	136
7	Interparticle forces and lift on a particle attached to a solid boundary in suspension flow. Physics of Fluids, 2002, 14, 49-60.	4.0	103
8	Heat and mass transfer coefficients of viscous spheres. International Journal of Heat and Mass Transfer, 2001, 44, 4445-4454.	4.8	86
9	Inclusion of heat transfer computations for particle laden flows. Physics of Fluids, 2008, 20, .	4.0	76
10	Direct numerical simulation of heat and mass transfer of spheres in a fluidized bed. Powder Technology, 2014, 262, 62-70.	4.2	55
11	Unsteady Heat Transfer From a Sphere at Small Peclet Numbers. Journal of Fluids Engineering, Transactions of the ASME, 1996, 118, 96-102.	1.5	47
12	Hydrodynamic force on spheres in cylindrical and prismatic enclosures. International Journal of Multiphase Flow, 2002, 28, 479-496.	3.4	45
13	Equilibrium position for a particle in a horizontal shear flow. International Journal of Multiphase Flow, 2003, 29, 943-957.	3.4	29
14	Unsteady heat and mass transfer from a spheroid. AICHE Journal, 1997, 43, 609-614.	3.6	28
15	Motion of a permeable sphere at finite but small Reynolds numbers. Physics of Fluids, 1998, 10, 1375-1383.	4.0	28
16	Modified kinetic theory applied to the shear flows of granular materials. Physics of Fluids, 2017, 29, 043302.	4.0	22
17	Transient Heat Transfer From a Particle With Arbitrary Shape and Motion. Journal of Heat Transfer, 1998, 120, 674-681.	2.1	20
18	Analogies between the transient momentum and energy equations of particles. Progress in Energy and Combustion Science, 1996, 22, 147-162.	31.2	17

#	Article	IF	Citations
19	A Correlation of the Drag Force Coefficient on a Sphere with Interface Slip at Low and Intermediate Reynolds Numbers. Journal of Dispersion Science and Technology, 2010, 31, 968-974.	2.4	16
20	Mixed convective heat transfer from a heated sphere at an arbitrary incident flow angle in laminar flows. International Journal of Heat and Mass Transfer, 2014, 78, 34-44.	4.8	14
21	Incorporation of velocity-dependent restitution coefficient and particle surface friction into kinetic theory for modeling granular flow cooling. Physical Review E, 2017, 96, 062907.	2.1	13
22	Direct Numerical Simulation of Forced Convective Heat Transfer From a Heated Rotating Sphere in Laminar Flows. Journal of Heat Transfer, 2014, 136, .	2.1	12
23	A Three-Dimensional Resolved Discrete Particle Method for Studying Particle-Wall Collision in a Viscous Fluid. Journal of Fluids Engineering, Transactions of the ASME, 2010, 132, .	1.5	11
24	Application of a Three-Dimensional Immersed Boundary Method for Free Convection From Single Spheres and Aggregates. Journal of Fluids Engineering, Transactions of the ASME, 2016, 138, .	1.5	11
25	Condensation Analysis of Exhaust Gas Recirculation System for Heavy-Duty Trucks. Journal of Thermal Science and Engineering Applications, 2011, 3, .	1.5	10
26	Using the direct numerical simulation to compute the slip boundary condition of the solid phase in two-fluid model simulations. Powder Technology, 2014, 265, 88-97.	4.2	10
27	Secondary flow within a river bed and contaminant transport. Environmental Fluid Mechanics, 2009, 9, 617-634.	1.6	8
28	Fluid-Particle Interactions and Resuspension in Simple Shear Flow. Journal of Hydraulic Engineering, 2003, 129, 985-994.	1.5	6
29	A Resolved Eulerianâ€“Lagrangian Simulation of Fluidization of 1204 Heated Spheres in a Bed With Heat Transfer. Journal of Fluids Engineering, Transactions of the ASME, 2016, 138, .	1.5	6
30	Particle velocity near vertical boundaries â€” A source of uncertainty in two-fluid models. Powder Technology, 2012, 220, 15-23.	4.2	5
31	An Experimental Study on Fluidization of Binary Mixture in Particulate Flows. Journal of Dispersion Science and Technology, 2012, 33, 1379-1384.	2.4	4
32	Transport of Dissolved Contaminants within a Stream Bed with Bedforms. , 2000, , 1.		2
33	Wall Effects on the Flow Dynamics of a Rigid Sphere in Motion. Journal of Fluids Engineering, Transactions of the ASME, 2021, 143, .	1.5	2
34	Simulation of Particle-Wall Collisions in a Viscous Fluid Using a Resolved Discrete Particle Method. , 2010, , .		1
35	Smoothed Particle Method for Studying Heat and Mass Transfer Between Fluid and Solid. , 2014, , .		1
36	Application of the Immersed Boundary Method and Direct Numerical Simulation for the Heat Transfer From Particles. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
37	An Immersed Boundary Based Method for Studying Thermal Interaction of Particles in a Viscous Fluid. , 2010, , .		0
38	Shape Effects on the Drag Force and Motion of Nano and Micro Particles in Low Reynolds Number Flows. , 2012, , .		0
39	Modeling Flows in Porous Media Using Immersed Boundary Based Lattice Boltzman Method. , 2012, , .		0
40	Direct Numerical Simulation of Particle Heat and Mass Transfer in a Fluidized Bed. , 2014, , .		0
41	A Three Dimensional Immersed Boundary Method for Free Convection From Single Spheres and Aggregates. , 2014, , .		0
42	Effects of Rod Shapes on the Drag Force of Particles in a Shear Flow. , 2014, , .		0
43	Implementation of the Immersed Boundary Method to Study Interactions of Fluids with Particles, Bubbles, and Drops. Progress in Colloid and Interface Science, 2015, , 279-293.	0.0	0
44	An Immersed Boundary Direct Numerical Simulation Study of the Wall Effect on the Dynamics of a Rigid Sphere. , 2017, , .		0
45	Proteusâ€"A New Computational Scheme for Deformable Particles and Particle Interaction Problems. , 2006, , 153-161.		0