

# 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	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
2	Modified kinetic theory applied to the shear flows of granular materials. Physics of Fluids, 2017, 29, 043302.	4.0	22
3	An Immersed Boundary Direct Numerical Simulation Study of the Wall Effect on the Dynamics of a Rigid Sphere. , 2017, , .		0
4	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
5	A Resolved Eulerian–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
6	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
7	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
8	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
9	Direct Numerical Simulation of Particle Heat and Mass Transfer in a Fluidized Bed. , 2014, , .		0
10	A Three Dimensional Immersed Boundary Method for Free Convection From Single Spheres and Aggregates. , 2014, , .		0
11	Direct numerical simulation of heat and mass transfer of spheres in a fluidized bed. Powder Technology, 2014, 262, 62-70.	4.2	55
12	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
13	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
14	Smoothed Particle Method for Studying Heat and Mass Transfer Between Fluid and Solid. , 2014, , .		1
15	Effects of Rod Shapes on the Drag Force of Particles in a Shear Flow. , 2014, , .		0
16	Shape Effects on the Drag Force and Motion of Nano and Micro Particles in Low Reynolds Number Flows. , 2012, , .		0
17	An Experimental Study on Fluidization of Binary Mixture in Particulate Flows. Journal of Dispersion Science and Technology, 2012, 33, 1379-1384.	2.4	4
18	Modeling Flows in Porous Media Using Immersed Boundary Based Lattice Boltzman Method. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
19	Particle velocity near vertical boundaries " A source of uncertainty in two-fluid models. Powder Technology, 2012, 220, 15-23.	4.2	5
20	Condensation Analysis of Exhaust Gas Recirculation System for Heavy-Duty Trucks. Journal of Thermal Science and Engineering Applications, 2011, 3, .	1.5	10
21	An Immersed Boundary Based Method for Studying Thermal Interaction of Particles in a Viscous Fluid. , 2010, , .		0
22	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
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	Simulation of Particle-Wall Collisions in a Viscous Fluid Using a Resolved Discrete Particle Method. , 2010, , .		1
25	Secondary flow within a river bed and contaminant transport. Environmental Fluid Mechanics, 2009, 9, 617-634.	1.6	8
26	Heat transfer in particulate flows with Direct Numerical Simulation (DNS). International Journal of Heat and Mass Transfer, 2009, 52, 777-786.	4.8	140
27	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
28	Application of the Immersed Boundary Method and Direct Numerical Simulation for the Heat Transfer From Particles. , 2009, , .		0
29	Inclusion of heat transfer computations for particle laden flows. Physics of Fluids, 2008, 20, .	4.0	76
30	Proteus" A New Computational Scheme for Deformable Particles and Particle Interaction Problems. , 2006, , 153-161.		0
31	Proteus: a direct forcing method in the simulations of particulate flows. Journal of Computational Physics, 2005, 202, 20-51.	3.8	416
32	The immersed boundary-lattice Boltzmann method for solving fluid"particles interaction problems. Journal of Computational Physics, 2004, 195, 602-628.	3.8	858
33	Equilibrium position for a particle in a horizontal shear flow. International Journal of Multiphase Flow, 2003, 29, 943-957.	3.4	29
34	Fluid-Particle Interactions and Resuspension in Simple Shear Flow. Journal of Hydraulic Engineering, 2003, 129, 985-994.	1.5	6
35	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
36	Hydrodynamic force on spheres in cylindrical and prismatic enclosures. International Journal of Multiphase Flow, 2002, 28, 479-496.	3.4	45

#	ARTICLE	IF	CITATIONS
37	Heat and mass transfer coefficients of viscous spheres. International Journal of Heat and Mass Transfer, 2001, 44, 4445-4454.	4.8	86
38	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
39	Transport of Dissolved Contaminants within a Stream Bed with Bedforms. , 2000, , 1.		2
40	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
41	Motion of a permeable sphere at finite but small Reynolds numbers. Physics of Fluids, 1998, 10, 1375-1383.	4.0	28
42	Transient Heat Transfer From a Particle With Arbitrary Shape and Motion. Journal of Heat Transfer, 1998, 120, 674-681.	2.1	20
43	Unsteady heat and mass transfer from a spheroid. AIChE Journal, 1997, 43, 609-614.	3.6	28
44	Analogies between the transient momentum and energy equations of particles. Progress in Energy and Combustion Science, 1996, 22, 147-162.	31.2	17
45	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