Wei Xiao

List of Publications by Year
in descending order

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26	878	516710 16	677142 22
papers	citations	h-index	g-index

26	26	26	597
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Immersed boundary method for multiphase transport phenomena. Reviews in Chemical Engineering, 2022, 38, 363-405.	4.4	14
2	Analysis and development of novel data-driven drag models based on direct numerical simulations of fluidized beds. Chemical Engineering Science, 2021, 231, 116245.	3.8	27
3	Eulerianâ€“Lagrangian direct numerical simulation of preferential accumulation of inertial particles in a compressible turbulent boundary layer. Journal of Fluid Mechanics, 2020, 903, .	3.4	18
4	Fully resolved simulation of a shockwave interacting with randomly clustered particles via a ghost-cell immersed boundary method. Physics of Fluids, 2020, 32, 066105.	4.0	9
5	Drag force for a burning particle. Combustion and Flame, 2020, 217, 188-199.	5.2	22
6	Direct numerical simulation of a three-dimensional spatially evolving compressible mixing layer laden with particles. II. Turbulence anisotropy and growth rate. Physics of Fluids, 2019, 31, 083303.	4.0	17
7	An improved direct-forcing immersed boundary method with inward retraction of Lagrangian points for simulation of particle-laden flows. Journal of Computational Physics, 2019, 376, 210-227.	3.8	25
8	Fully resolved simulations of single char particle combustion using a ghostâ€cell immersed boundary method. AICHE Journal, 2018, 64, 2851-2863.	3.6	19
9	Fully resolved numerical simulation of interphase heat transfer in gasâ€“solid turbulent flow. International Journal of Heat and Mass Transfer, 2017, 112, 45-60.	4.8	8
10	Interaction of a planar reacting shock wave with an isotropic turbulent vorticity field. Physical Review E, 2017, 96, 053104.	2.1	13
11	A ghost-cell immersed boundary method for the simulations of heat transfer in compressible flows under different boundary conditions Part-II: Complex geometries. International Journal of Heat and Mass Transfer, 2017, 104, 98-111.	4.8	29
12	Particleâ€resolved direct numerical simulation of gasâ€“solid dynamics in experimental fluidized beds. AICHE Journal, 2016, 62, 1917-1932.	3.6	74
13	A ghost-cell immersed boundary method for simulations of heat transfer in compressible flows under different boundary conditions. International Journal of Heat and Mass Transfer, 2016, 92, 708-717.	4.8	54
14	Simulating heat transfer from moving rigid bodies using high-order ghost-cell based immersed-boundary method. International Journal of Heat and Mass Transfer, 2015, 89, 856-865.	4.8	21
15	A ghost-cell based high-order immersed boundary method for inter-phase heat transfer simulation. International Journal of Heat and Mass Transfer, 2014, 75, 302-312.	4.8	40
16	Fully-resolved DNS study of rotation behaviors of one and two particles settling near a vertical wall. Powder Technology, 2013, 245, 115-125.	4.2	19
17	Response of force behaviors of a spherical particle to an oscillating flow. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 3046-3052.	2.1	10
18	Immersed boundary method for the simulation of flows with heat transfer. International Journal of Heat and Mass Transfer, 2009, 52, 4510-4518.	4.8	86

#	Article	IF	Citations
19	Combined multi-direct forcing and immersed boundary method for simulating flows with moving particles. International Journal of Multiphase Flow, 2008, 34, 283-302.	3.4	221
20	Full-scale solutions to particle-laden flows: Multidirect forcing and immersed boundary method. Physical Review E, 2007, 76, 066709.	2.1	108
21	A modified immersed boundary method for simulations of fluidâ€“particle interactions. Computer Methods in Applied Mechanics and Engineering, 2007, 197, 36-46.	6.6	41
22	Visualization of vortex shedding and particle dispersion in two-phase plate wake. Journal of Visualization, 2005, 8, 3-3.	1.8	3
23	Flow visualization of the turbulent jet by Direct numerical simulation. Journal of Visualization, 2004, 7, 110-110.	1.8	0
24	Coherent structures of the particle-laden turbulent round jet at different reynolds number. Journal of Visualization, 2004, 7, 177-177.	1.8	0
25	DNS of the turbulence modulation by dispersed particles in compressible spatially developing two-phase jets. Progress in Natural Science: Materials International, 2004, 14, 817-821.	4.4	0
26	Large eddy simulation of the gas-particle turbulent wake flow. Journal of Zhejiang University Science B, 2004, 5, 106-10.	0.4	0