

# Zhaosheng Yu

## List of Publications by Year in descending order

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54  
papers

1,772  
citations

304743

22  
h-index

265206

42  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1067  
citing authors

#	ARTICLE	IF	CITATIONS
1	A direct-forcing fictitious domain method for particulate flows. <i>Journal of Computational Physics</i> , 2007, 227, 292-314.	3.8	188
2	A DLM/FD method for fluid/flexible-body interactions. <i>Journal of Computational Physics</i> , 2005, 207, 1-27.	3.8	151
3	A fictitious domain method for particulate flows with heat transfer. <i>Journal of Computational Physics</i> , 2006, 217, 424-452.	3.8	140
4	Fully resolved numerical simulation of particle-laden turbulent flow in a horizontal channel at a low Reynolds number. <i>Journal of Fluid Mechanics</i> , 2012, 693, 319-344.	3.4	118
5	Viscoelastic mobility problem of a system of particles. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2002, 104, 87-124.	2.4	91
6	Inertial migration of spherical particles in circular Poiseuille flow at moderately high Reynolds numbers. <i>Physics of Fluids</i> , 2008, 20, .	4.0	89
7	A fictitious domain method for dynamic simulation of particle sedimentation in Bingham fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2007, 145, 78-91.	2.4	78
8	Numerical simulation of particle sedimentation in shear-thinning fluids with a fictitious domain method. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2006, 136, 126-139.	2.4	76
9	Discontinuous Galerkin spectral element lattice Boltzmann method on triangular element. <i>International Journal for Numerical Methods in Fluids</i> , 2003, 42, 1249-1261.	1.6	67
10	Dynamic simulation of sphere motion in a vertical tube. <i>Journal of Fluid Mechanics</i> , 2004, 518, 61-93.	3.4	67
11	Lattice Boltzmann simulation of particle-laden turbulent channel flow. <i>Computers and Fluids</i> , 2016, 124, 226-236.	2.5	65
12	Rotation of a spheroid in a Couette flow at moderate Reynolds numbers. <i>Physical Review E</i> , 2007, 76, 026310.	2.1	62
13	Hydrodynamic performance of a fishlike undulating foil in the wake of a cylinder. <i>Physics of Fluids</i> , 2010, 22, .	4.0	40
14	Equilibrium positions of the elasto-inertial particle migration in rectangular channel flow of Oldroyd-B viscoelastic fluids. <i>Journal of Fluid Mechanics</i> , 2019, 868, 316-340.	3.4	38
15	Numerical studies of the effects of large neutrally buoyant particles on the flow instability and transition to turbulence in pipe flow. <i>Physics of Fluids</i> , 2013, 25, 043305.	4.0	37
16	Flow Modulation by Finite-Size Neutrally Buoyant Particles in a Turbulent Channel Flow. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2016, 138, .	1.5	35
17	Modulation of turbulence intensity by heavy finite-size particles in upward channel flow. <i>Journal of Fluid Mechanics</i> , 2021, 913, .	3.4	30
18	Effects of finite-size neutrally buoyant particles on the turbulent flows in a square duct. <i>Physics of Fluids</i> , 2017, 29, .	4.0	25

#	ARTICLE	IF	CITATIONS
19	A parallel fictitious domain method for the interface-resolved simulation of particle-laden flows and its application to the turbulent channel flow. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2016, 10, 160-170.	3.1	24
20	Numerical simulations of particle migration in rectangular channel flow of Giesekus viscoelastic fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2018, 262, 142-148.	2.4	24
21	Effects of particle-fluid density ratio on the interactions between the turbulent channel flow and finite-size particles. <i>Physical Review E</i> , 2017, 96, 033102.	2.1	22
22	Interface-resolved direct numerical simulations of the interactions between spheroidal particles and upward vertical turbulent channel flows. <i>Journal of Fluid Mechanics</i> , 2020, 891, .	3.4	22
23	Direct numerical simulation of particulate flows with a fictitious domain method. <i>International Journal of Multiphase Flow</i> , 2010, 36, 127-134.	3.4	21
24	Interface-resolved direct numerical simulations of the interactions between neutrally buoyant spheroidal particles and turbulent channel flows. <i>Physics of Fluids</i> , 2018, 30, .	4.0	21
25	Effects of the collision model in interface-resolved simulations of particle-laden turbulent channel flows. <i>Physics of Fluids</i> , 2020, 32, .	4.0	19
26	Effects of the particle deformability on the critical separation diameter in the deterministic lateral displacement device. <i>Journal of Fluid Mechanics</i> , 2014, 743, 60-74.	3.4	18
27	On the polydisperse particle migration and formation of chains in a square channel flow of non-Newtonian fluids. <i>Journal of Fluid Mechanics</i> , 2022, 936, .	3.4	17
28	Discrete element methodâ€“computational fluid dynamics analyses of flexible fibre fluidization. <i>Journal of Fluid Mechanics</i> , 2021, 910, .	3.4	16
29	Interface-resolved numerical simulations of particle-laden turbulent flows in a vertical channel filled with Bingham fluids. <i>Journal of Fluid Mechanics</i> , 2020, 883, .	3.4	15
30	CXCR4-dependent macrophage-to-fibroblast signaling contributes to cardiac diastolic dysfunction in heart failure with preserved ejection fraction. <i>International Journal of Biological Sciences</i> , 2022, 18, 1271-1287.	6.4	14
31	Numerical simulations of the motion of ellipsoids in planar Couette flow of Giesekus viscoelastic fluids. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	2.2	13
32	Interface-resolved numerical simulations of particle-laden turbulent channel flows with spanwise rotation. <i>Physics of Fluids</i> , 2020, 32, 013303.	4.0	11
33	Turbulence modulation by finite-size heavy particles in a downward turbulent channel flow. <i>Physics of Fluids</i> , 2021, 33, .	4.0	11
34	Transport of finite-size particles in a turbulent Couette flow: The effect of particle shape and inertia. <i>International Journal of Multiphase Flow</i> , 2018, 107, 168-181.	3.4	10
35	Discrete Element Method Investigation of Binary Granular Flows with Different Particle Shapes. <i>Energies</i> , 2020, 13, 1841.	3.1	9
36	Frictional granular flows of rod and disk mixtures with particle shape distributions. <i>Physics of Fluids</i> , 2021, 33, 093303.	4.0	9

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37	Hydrodynamics of an inertial squirmer and squirmer dumbbell in a tube. <i>Journal of Fluid Mechanics</i> , 2022, 939, .	3.4	9
38	Particle migration in bounded shear flow of Giesekus fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2020, 276, 104233.	2.4	8
39	Three-dimensional roll-up of a viscoelastic mixing layer. <i>Journal of Fluid Mechanics</i> , 2004, 500, 29-53.	3.4	7
40	Effects of finite-size neutrally buoyant particles on the turbulent channel flow at a Reynolds number of 395. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2019, 40, 293-304.	3.6	7
41	Elasto-inertial particle migration in a confined simple shear-flow of Giesekus viscoelastic fluids. <i>Particulate Science and Technology</i> , 2021, 39, 726-737.	2.1	6
42	Dynamic Simulation of Shear-induced Particle Migration in a Two-dimensional Circular Couette Device. <i>Chinese Journal of Chemical Engineering</i> , 2007, 15, 333-338.	3.5	5
43	Migration of spherical particles in a confined shear flow of Giesekus fluid. <i>Rheologica Acta</i> , 2019, 58, 639-646.	2.4	5
44	A fictitious domain method for particulate flows of arbitrary density ratio. <i>Computers and Fluids</i> , 2019, 193, 104293.	2.5	5
45	Drag model from interface-resolved simulations of particle sedimentation in a periodic domain and vertical turbulent channel flows. <i>Journal of Fluid Mechanics</i> , 2022, 944, .	3.4	5
46	Numerical studies on the dynamics of an open triangle in a vertically oscillatory flow. <i>Journal of Fluid Mechanics</i> , 2016, 788, 381-406.	3.4	4
47	Investigation of the interactions between two contact fibers in the fiber suspensions. <i>Journal of Materials Science</i> , 2003, 38, 1499-1505.	3.7	3
48	A fictitious domain method for particulate flows. <i>Journal of Hydrodynamics</i> , 2006, 18, 482-486.	3.2	3
49	Turbulent channel flow of a binary mixture of neutrally buoyant ellipsoidal particles. <i>Physics of Fluids</i> , 2022, 34, .	4.0	3
50	Model of interfacial term in turbulent kinetic energy equation and computation of dissipation rate for particle-laden flows. <i>Physics of Fluids</i> , 2022, 34, .	4.0	3
51	The stress-microstructure relationship in an evolving mixing layer of fiber suspensions. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2005, 21, 16-23.	3.4	2
52	Particle trajectory and orientation evolution of ellipsoidal particles in bounded shear flow of Giesekus fluids. <i>Korea Australia Rheology Journal</i> , 2021, 33, 343-355.	1.7	2
53	Lubrication Force Saturation Matters for the Critical Separation Size of the Non-Colloidal Spherical Particle in the Deterministic Lateral Displacement Device. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2733.	2.5	2
54	A fictitious domain method for particulate flows. <i>Journal of Hydrodynamics</i> , 2006, 18, 471-475.	3.2	0