

# Taehun Lee

## List of Publications by Year in descending order

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51  
papers

3,166  
citations

218677

26  
h-index

189892

50  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1742  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced wickability of single-columnar, non-uniform pore-size wick using Lattice Boltzmann Method. Computers and Fluids, 2022, 238, 105376.	2.5	6
2	Simulation of a bubble rising at high Reynolds number with mass-conserving finite element lattice Boltzmann method. Computers and Fluids, 2021, 220, 104883.	2.5	6
3	Diffuse bounce back condition for lattice Boltzmann method. Computers and Fluids, 2021, 220, 104884.	2.5	2
4	Effect of interfacial mass transport on inertial spreading of liquid droplets. Physics of Fluids, 2020, 32, .	4.0	11
5	Coalescence-induced jumping of immersed and suspended droplets on microstructured substrates. European Journal of Computational Mechanics, 2017, 26, 205-223.	0.6	13
6	Computational study of microparticle effect on self-propelled jumping of droplets from superhydrophobic substrates. International Journal of Multiphase Flow, 2017, 95, 220-234.	3.4	14
7	Phase-field lattice Boltzmann modeling of boiling using a sharp-interface energy solver. Physical Review E, 2017, 96, 013306.	2.1	16
8	Spatial and temporal scaling of unequal microbubble coalescence. AIChE Journal, 2017, 63, 1441-1450.	3.6	24
9	Comment on "Viscous coalescence of droplets: A lattice Boltzmann study" [Phys. Fluids 25, 052101 (2013)]. Physics of Fluids, 2016, 28, 079101.	4.0	1
10	Numerical and Experimental Analysis of Single Phase Jet Interactions. , 2016, , .		3
11	A mass-conserving lattice Boltzmann method with dynamic grid refinement for immiscible two-phase flows. Journal of Computational Physics, 2016, 315, 434-457.	3.8	116
12	A new splitting scheme to the discrete Boltzmann equation for non-ideal gases on non-uniform meshes. Journal of Computational Physics, 2016, 327, 799-809.	3.8	12
13	A spectral-element discontinuous Galerkin thermal lattice Boltzmann method for conjugate heat transfer applications. International Journal for Numerical Methods in Fluids, 2016, 82, 932-952.	1.6	10
14	Airflows generated by an impacting drop. Soft Matter, 2016, 12, 3013-3020.	2.7	7
15	Numerical investigations on the vortex-induced vibration of moving square cylinder by using incompressible lattice Boltzmann method. Computers and Fluids, 2016, 124, 270-277.	2.5	18
16	Conservative phase-field lattice Boltzmann model for interface tracking equation. Physical Review E, 2015, 91, 063309.	2.1	151
17	Coalescence-induced jumping of droplet: Inertia and viscosity effects. Physics of Fluids, 2015, 27, .	4.0	80
18	Dynamics of viscous coalescing droplets in a saturated vapor phase. Physics of Fluids, 2015, 27, .	4.0	11

#	ARTICLE	IF	CITATIONS
19	Lattice Boltzmann simulations of particle-laden liquid bridges: Effects of volume fraction and wettability. <i>International Journal of Multiphase Flow</i> , 2015, 76, 32-46.	3.4	20
20	Interaction of fluid interfaces with immersed solid particles using the lattice Boltzmann method for liquid-gas-particle systems. <i>Journal of Computational Physics</i> , 2015, 283, 453-477.	3.8	44
21	Numerics of the lattice Boltzmann method on nonuniform grids: Standard LBM and finite-difference LBM. <i>Computers and Fluids</i> , 2015, 107, 205-213.	2.5	49
22	Shrinkage of bubbles and drops in the lattice Boltzmann equation method for nonideal gases. <i>Physical Review E</i> , 2014, 89, 033302.	2.1	33
23	Multiscale liquid drop impact on wettable and textured surfaces. <i>Physics of Fluids</i> , 2014, 26, .	4.0	40
24	Finite-difference lattice Boltzmann method with a block-structured adaptive-mesh-refinement technique. <i>Physical Review E</i> , 2014, 89, 033310.	2.1	74
25	Turbulent flow characteristics in an annulus under air bubble injection and subcooled flow boiling conditions. <i>Nuclear Engineering and Design</i> , 2014, 268, 203-214.	1.7	14
26	Effects of initial conditions on the simulation of inertial coalescence of two drops. <i>Computers and Mathematics With Applications</i> , 2014, 67, 282-289.	2.7	30
27	A spectral-element discontinuous Galerkin lattice Boltzmann method for simulating natural convection heat transfer in a horizontal concentric annulus. <i>Computers and Fluids</i> , 2014, 95, 197-209.	2.5	13
28	Multiple-relaxation-time lattice Boltzmann method for immiscible fluids at high Reynolds numbers. <i>Physical Review E</i> , 2013, 87, 023304.	2.1	71
29	Lattice Boltzmann simulations of forced wetting transitions of drops on superhydrophobic surfaces. <i>Journal of Computational Physics</i> , 2013, 250, 601-615.	3.8	62
30	Finite element lattice Boltzmann simulations of free surface flow in a concentric cylinder. <i>Computers and Mathematics With Applications</i> , 2013, 65, 230-238.	2.7	20
31	Spectral-element discontinuous Galerkin lattice Boltzmann simulation of flow past two cylinders in tandem with an exponential time integrator. <i>Computers and Mathematics With Applications</i> , 2013, 65, 239-251.	2.7	14
32	Effects of Inertia and Viscosity on Single Droplet Deformation in Confined Shear Flow. <i>Communications in Computational Physics</i> , 2013, 13, 706-724.	1.7	24
33	A review of spurious currents in the lattice Boltzmann method for multiphase flows. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 3857-3863.	1.5	94
34	A spectral-element discontinuous Galerkin lattice Boltzmann method for nearly incompressible flows. <i>Journal of Computational Physics</i> , 2011, 230, 245-259.	3.8	66
35	Numerical simulation of single bubble rising in vertical and inclined square channel using lattice Boltzmann method. <i>Chemical Engineering Science</i> , 2011, 66, 935-952.	3.8	25
36	Lattice Boltzmann simulations of bubble formation in a microfluidic T-junction. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 2405-2413.	3.4	19

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37	Single bubble rising dynamics for moderate Reynolds number using Lattice Boltzmann Method. Computers and Fluids, 2010, 39, 1191-1207.	2.5	152
38	Lattice Boltzmann simulations of micron-scale drop impact on dry surfaces. Journal of Computational Physics, 2010, 229, 8045-8063.	3.8	324
39	WALL FREE ENERGY BASED POLYNOMIAL BOUNDARY CONDITIONS FOR NON-IDEAL GAS LATTICE BOLTZMANN EQUATION. International Journal of Modern Physics C, 2009, 20, 1749-1768.	1.7	27
40	Effects of incompressibility on the elimination of parasitic currents in the lattice Boltzmann equation method for binary fluids. Computers and Mathematics With Applications, 2009, 58, 987-994.	2.7	117
41	Eulerian description of high-order bounce-back scheme for lattice Boltzmann equation with curved boundary. European Physical Journal: Special Topics, 2009, 171, 3-8.	2.6	6
42	Wall boundary conditions in the lattice Boltzmann equation method for nonideal gases. Physical Review E, 2008, 78, 017702.	2.1	43
43	Large-eddy simulation of air flow around a wall-mounted circular cylinder and a tripod tower. Journal of Turbulence, 2007, 8, N29.	1.4	13
44	A lattice Boltzmann algorithm for calculation of the laminar jet diffusion flame. Journal of Computational Physics, 2006, 215, 133-152.	3.8	43
45	Eliminating parasitic currents in the lattice Boltzmann equation method for nonideal gases. Physical Review E, 2006, 74, 046709.	2.1	202
46	A level set characteristic Galerkin finite element method for free surface flows. International Journal for Numerical Methods in Fluids, 2005, 49, 521-547.	1.6	78
47	A stable discretization of the lattice Boltzmann equation for simulation of incompressible two-phase flows at high density ratio. Journal of Computational Physics, 2005, 206, 16-47.	3.8	555
48	Rarefaction and compressibility effects of the lattice-Boltzmann-equation method in a gas microchannel. Physical Review E, 2005, 71, 046706.	2.1	90
49	An Eulerian description of the streaming process in the lattice Boltzmann equation. Journal of Computational Physics, 2003, 185, 445-471.	3.8	113
50	Pressure evolution lattice-Boltzmann-equation method for two-phase flow with phase change. Physical Review E, 2003, 67, 056703.	2.1	53
51	A Characteristic Galerkin Method for Discrete Boltzmann Equation. Journal of Computational Physics, 2001, 171, 336-356.	3.8	136