Masato Yoshino

List of Publications by Year
in descending order

28	1,018	840776 11	552781 26
papers	citations	h-index	g-index

30	30	30	769
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A nonâ€slip boundary condition for lattice Boltzmann simulations. Physics of Fluids, 1995, 7, 2928-2930.	4.0	322
2	A Lattice Boltzmann Method for a Binary Miscible Fluid Mixture and Its Application to a Heat-Transfer Problem. Journal of Computational Physics, 2002, 179, 201-215.	3.8	161
3	Accuracy of the lattice Boltzmann method for small Knudsen number with finite Reynolds number. Physics of Fluids, 1997, 9, 3535-3542.	4.0	97
4	Lattice Boltzmann simulation of flows in a three-dimensional porous structure. International Journal for Numerical Methods in Fluids, 1999, 29, 737-748.	1.6	91
5	Topology optimization in thermal-fluid flow using the lattice Boltzmann method. Journal of Computational Physics, 2016, 307, 355-377.	3.8	82
6	Topology optimization using the lattice Boltzmann method incorporating level set boundary expressions. Journal of Computational Physics, 2014, 274, 158-181.	3.8	75
7	A thermal immersed boundaryâ€“lattice Boltzmann method for moving-boundary flows with Dirichlet and Neumann conditions. International Journal of Heat and Mass Transfer, 2018, 121, 1099-1117.	4.8	38
8	Numerical simulations of solidâ€“liquid and solidâ€“solid interactions in ice slurry flows by the thermal immersed boundaryâ€“lattice Boltzmann method. International Journal of Heat and Mass Transfer, 2020, 157, 119944.	4.8	18
9	Numerical simulation of head-on collision dynamics of binary droplets with various diameter ratios by the two-phase lattice kinetic scheme. Computers and Fluids, 2018, 168, 304-317.	2.5	15
10	Lattice Boltzmann Simulation of Nucleate Pool Boiling in Saturated Liquid. Communications in Computational Physics, 2011, 9, 1347-1361.	1.7	13
11	Simple extended lattice Boltzmann methods for incompressible viscous single-phase and two-phase fluid flows. Physics of Fluids, 2021, 33, .	4.0	12
12	Three-Dimensional Lattice Boltzmann Simulation of Two-Phase Flow Containing a Deformable Body with a Viscoelastic Membrane. Communications in Computational Physics, 2011, 9, 1397-1413.	1.7	10
13	Numerical Analysis of Bifurcation Angles and Branch Patterns in Intracranial Aneurysm Formation. Neurosurgery, 2019, 85, E31-E39.	1.1	10
14	Effect of chordwise wing flexibility on flapping flight of a butterfly model using immersed-boundary lattice Boltzmann simulations. Physical Review E, 2019, 100, 013104.	2.1	10
15	A stress tensor discontinuity-based immersed boundary-lattice Boltzmann method. Computers and Fluids, 2018, 172, 593-608.	2.5	9
16	Level-set based topology optimization of transient flow using lattice Boltzmann method considering an oscillating flow condition. Computers and Mathematics With Applications, 2020, 80, 82-108.	2.7	9
17	Accuracy of the laminar boundary layer on a flat plate in an immersed boundary-lattice Boltzmann simulation. Journal of Fluid Science and Technology, 2016, 11, JFST0017-JFST0017.	0.6	8
18	Numerical Simulations for Aerodynamic Performance of a Butterfly-Like Flapping Wing-Body Model with Various Wing Planforms. Communications in Computational Physics, 2018, 23, .	1.7	7

#	Article	IF	Citations
19	Local force calculations by an improved stress tensor discontinuity-based immersed boundaryâ€“lattice Boltzmann method. Physics of Fluids, 2021, 33, .	4.0	6
20	Asymptotic equivalence of forcing terms in the lattice Boltzmann method within second-order accuracy. Physical Review E, 2020, 102, 013308.	2.1	5
21	Particle-resolved simulations of ice slurry flows in a square duct by the thermal immersed boundaryâ€“lattice Boltzmann method. Computers and Fluids, 2021, 228, 105064.	2.5	5
22	Revisiting the flight dynamics of take-off of a butterfly: experiments and CFD simulations for a cabbage white butterfly. Biology Open, 2022, 11, .	1.2	3
23	Numerical Analysis of Unsteady Flows in a Three-Dimensional Porous Structure.. Kagaku Kogaku Ronbunshu, 1999, 25, 979-986.	0.3	1
24	Comparative study between a discrete vortex method and an immersed boundaryâ€“lattice Boltzmann method in 2D flapping flight analysis. International Journal of Modern Physics C, 2021, 32, 2150005.	1.7	1
25	Mass Transfer Analysis of Calcium in Concrete Using the Lattice Kinetic Scheme for a Binary Miscible Fluid Mixture. 880-02 Nihon Kikai Gakkai RonbunshÃ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2007, 73, 973-980.	0.2	0
26	Dynamic behavior of binary water droplets approaching each other in cloud by the improved two-phase lattice Boltzmann simulation. Transactions of the JSME (in Japanese), 2018, 84, 18-00023-18-00023.	0.2	0
27	3812 Verification by Experiment of Lubricant Displacement on Magnetic Disks under Flying Head. The Proceedings of the JSME Annual Meeting, 2008, 2008.5, 287-288.	0.0	0
28	Free flight simulations of a dragonfly-like flapping wingâ€“body model using the immersed boundaryâ€“improved lattice kinetic scheme. The Proceedings of the Computational Mechanics Conference, 2021, 2021.34, 166.	0.0	0