Hiroaki Yoshida

List of Publications by Year
in descending order

36	1,102	471509 17	395702 33
papers	citations	h-index	g-index

37	37	37	1252
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimal Transport-Based Coverage Control for Swarm Robot Systems: Generalization of the Voronoi Tessellation-Based Method. , 2021, 5, 1483-1488.		11
2	Traffic signal optimization on a square lattice with quantum annealing. Scientific Reports, 2021, 11, 3303.	3.3	39
3	Optimal Transport-based Coverage Control for Swarm Robot Systems: Generalization of the Voronoi Tessellation-based Method. , 2021, , .		3
4	Electro-osmotic diode based on colloidal nano-valves between double membranes. Physical Review Research, 2021, 3, .	3.6	2
5	Separation of pedestrian counter flows with an array of obstacles. Artificial Life and Robotics, 2020, 25, 529-536.	1.2	3
6	Dynamic viscosity recovery of electrospinning solution for stabilizing elongated ultrafine polymer nanofiber by TEMPO-CNF. Scientific Reports, 2020, 10, 13427.	3.3	29
7	Studying polymer diffusiophoresis with non-equilibrium molecular dynamics. Journal of Chemical Physics, 2020, 152, 164901.	3.0	6
8	Model Predictive Control for Finite Input Systems using the D-Wave Quantum Annealer. Scientific Reports, 2020, 10, 1591.	3.3	11
9	Local and global force balance for diffusiophoretic transport. Journal of Fluid Mechanics, 2020, 892, .	3.4	13
10	Membranes for spontaneous separation of pedestrian counterflows. Europhysics Letters, 2020, 129, 50005.	2.0	5
11	Numerical simulation method for Brownian particles dispersed in incompressible fluids. Chemical Physics Letters, 2019, 737, 136809.	2.6	4
12	Dripplons as localized and superfast ripples of water confined between graphene sheets. Nature Communications, 2018, 9, 1496.	12.8	50
13	Coarse-grained simulations of polyelectrolyte brushes using a hybrid model. Colloid and Polymer Science, 2018, 296, 441-449.	2.1	4
14	Coarse-Grain Simulation of Lubricant Polymer Solutions. , 2018, , .		0
15	Osmotic and diffusio-osmotic flow generation at high solute concentration. II. Molecular dynamics simulations. Journal of Chemical Physics, 2017, 146, 194702.	3.0	34
16	Osmotic and diffusio-osmotic flow generation at high solute concentration. I. Mechanical approaches. Journal of Chemical Physics, 2017, 146, 194701.	3.0	41
17	Carbon membranes for efficient water-ethanol separation. Journal of Chemical Physics, 2016, 145, 124708.	3.0	50
18	Labyrinthine water flow across multilayer graphene-based membranes: Molecular dynamics versus continuum predictions. Journal of Chemical Physics, 2016, 144, 234701.	3.0	51

#	Article	IF	Citations
19	Analysis of electro-osmotic flow in a microchannel with undulated surfaces. Computers and Fluids, 2016, 124, 237-245.	2.5	16
20	Shear thinning behavior of nanometer-thick perfluoropolyether films confined between corrugated solid surfaces: a coarse-grained molecular dynamics study. Tribology International, 2016, 93, 163-171.	5.9	17
21	Generic transport coefficients of a confined electrolyte solution. Physical Review E, 2014, 90, 052113.	2.1	9
22	Boundary condition at a two-phase interface in the lattice Boltzmann method for the convection-diffusion equation. Physical Review E, 2014, 90, 013303.	2.1	41
23	Transmissionâ€“Reflection Coefficient in the Lattice Boltzmann Method. Journal of Statistical Physics, 2014, 155, 277-299.	1.2	19
24	Coupled lattice Boltzmann method for simulating electrokinetic flows: A localized scheme for the Nernstâ€“Plank model. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 3570-3590.	3.3	44
25	Lattice Boltzmann method for the convectionâ€“diffusion equation in curvilinear coordinate systems. Journal of Computational Physics, 2014, 257, 884-900.	3.8	28
26	Numerical simulation of thermal behavior of lithium-ion secondary batteries using the enhanced single particle model. Journal of Power Sources, 2014, 252, 214-228.	7.8	79
27	Polarizable Dissipative Particle Dynamics Simulation of Electrolyte Solutions. , 2014, , .		2
28	Structure of polyelectrolyte brushes studied by coarse grain simulations. Friction, 2014, 2, 73-81.	6.4	10
29	Molecular dynamics simulation of electrokinetic flow of an aqueous electrolyte solution in nanochannels. Journal of Chemical Physics, 2014, 140, 214701.	3.0	54
30	Multiple-relaxation-time lattice Boltzmann model for the convection and anisotropic diffusion equation. Journal of Computational Physics, 2010, 229, 7774-7795.	3.8	278
31	Rarefied gas flows through a curved channel: Application of a diffusion-type equation. Physics of Fluids, 2010, 22, 112001.	4.0	12
32	A Diffusion Model for Rarefied Flows in Curved Channels. Multiscale Modeling and Simulation, 2008, 6, 1281-1316.	1.6	30
33	Diffusion models for Knudsen compressors. Physics of Fluids, 2007, 19, .	4.0	33
34	Cylindrical Couette flow of a vapor-gas mixture: Ghost effect and bifurcation in the continuum limit. Physics of Fluids, 2006, 18, 087103.	4.0	4
35	Linear stability of the cylindrical Couette flow of a rarefied gas. Physical Review E, 2006, 73, 021201.	2.1	17
36	Inverted velocity profile in the cylindrical Couette flow of a rarefied gas. Physical Review E, 2003, 68, 016302.	2.1	51