

Takeshi Omori

List of Publications by Year in descending order

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21
papers

205
citations

1040056

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h-index

996975

15
g-index

23
all docs

23
docs citations

23
times ranked

173
citing authors

#	ARTICLE	IF	CITATIONS
1	Slip length measurement in rectangular graphene nanochannels with a 3D flow analysis. Carbon, 2022, 189, 162-172.	10.3	10
2	Coupled Simulation of Flow and Chemical Reaction with Finite Reaction Rate for Decarburization of Molten Iron using Gas Jet of Carbon Dioxide. ISIJ International, 2022, 62, 38-47.	1.4	1
3	Quantifying the solid–fluid interfacial tensions depending on the substrate curvature: Young’s equation holds for wetting around nanoscale cylinder. Journal of Chemical Physics, 2022, 156, 054701.	3.0	0
4	Theoretical framework for the atomistic modeling of frequency-dependent liquid-solid friction. Physical Review Research, 2021, 3, .	3.6	2
5	Local stress tensor calculation by the method-of-plane in microscopic systems with macroscopic flow: A formulation based on the velocity distribution function. Journal of Chemical Physics, 2021, 155, 184103.	3.0	5
6	Wilhelmy equation revisited: A lightweight method to measure liquid–vapor, solid–liquid, and solid–vapor interfacial tensions from a single molecular dynamics simulation. Journal of Chemical Physics, 2020, 153, 034701.	3.0	16
7	Large effect of lateral box size in molecular dynamics simulations of liquid-solid friction. Physical Review E, 2019, 100, 023101.	2.1	9
8	Green-Kubo measurement of liquid-solid friction in finite-size systems. Journal of Chemical Physics, 2019, 151, .	3.0	21
9	Shear force measurement of the hydrodynamic wall position in molecular dynamics. Journal of Chemical Physics, 2019, 151, 041103.	3.0	24
10	Extraction of the equilibrium pinning force on a contact line exerted from a wettability boundary of a solid surface through the connection between mechanical and thermodynamic routes. Journal of Chemical Physics, 2019, 151, 154501.	3.0	15
11	Interpretation of Young’s equation for a liquid droplet on a flat and smooth solid surface: Mechanical and thermodynamic routes with a simple Lennard-Jones liquid. Journal of Chemical Physics, 2019, 150, 044701.	3.0	35
12	Understanding the asymmetry between advancing and receding microscopic contact angles. Soft Matter, 2019, 15, 3923-3928.	2.7	7
13	Full characterization of the hydrodynamic boundary condition at the atomic scale using an oscillating channel: Identification of the viscoelastic interfacial friction and the hydrodynamic boundary position. Physical Review Fluids, 2019, 4, .	2.5	9
14	Molecular dynamics analysis of the friction between a water-methanol liquid mixture and a non-polar solid crystal surface. Journal of Chemical Physics, 2017, 146, 174702.	3.0	10
15	Apparent and microscopic dynamic contact angles in confined flows. Physics of Fluids, 2017, 29, 112107.	4.0	18
16	Extraction of the solid-liquid friction coefficient between a water-methanol liquid mixture and a non-polar solid crystal surface by Green-Kubo equations. Mechanical Engineering Letters, 2017, 3, 17-00422-17-00422.	0.6	8
17	Development of numerical method for mass transfer from a buoyant bubble under a high Schmidt number condition. Transactions of the JSME (in Japanese), 2016, 82, 16-00079-16-00079.	0.2	0
18	Numerical study on the aerodynamics of an airfoil moving close to an air-water interface. Transactions of the JSME (in Japanese), 2016, 82, 16-00112-16-00112.	0.2	1

#	ARTICLE	IF	CITATIONS
19	Study on the Navier boundary condition for flows with a moving contact line by means of molecular dynamics simulation. Transactions of the JSME (in Japanese), 2015, 81, 15-00409-15-00409.	0.2	3
20	Molecular dynamics analysis of the velocity slip of a water and methanol liquid mixture. Physical Review E, 2015, 92, 022402.	2.1	11
21	Development of numerical method for two-phase flow on polyhedral meshes (Part 1, Development of) Tj ETQq1 1 0.784314 rgBT /Ov 15-00256-15-00256.	0.2	0