

Yohei Sato

List of Publications by Year in descending order

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34
papers

897
citations

516561

16
h-index

477173

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g-index

36
all docs

36
docs citations

36
times ranked

585
citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive simulations of boiling with a resolved microlayer: validation and sensitivity study. Journal of Fluid Mechanics, 2022, 933, .	1.4	17
2	Acoustic levitation and rotation of thin films and their application for room temperature protein crystallography. Scientific Reports, 2022, 12, 5349.	1.6	9
3	ANALYSIS OF DYNAMICS OF MICROLAYER FORMATION AND DESTRUCTION IN NUCLEATE BOILING. , 2021, , .		1
4	On the modelling of the transition between contact-line and microlayer evaporation regimes in nucleate boiling. Journal of Fluid Mechanics, 2021, 916, .	1.4	18
5	Piecewise linear interface-capturing volume-of-fluid method in axisymmetric cylindrical coordinates. Journal of Computational Physics, 2021, 436, 110291.	1.9	7
6	Direct numerical simulation of evaporation and condensation with the geometric VOF method and a sharp-interface phase-change model. International Journal of Heat and Mass Transfer, 2021, 173, 121233.	2.5	36
7	Aerodynamic study of a Hyperloop pod equipped with compressor to overcome the Kantrowitz limit. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 218, 104784.	1.7	18
8	Influence of buoyancy in a mixed convection liquid metal flow for a horizontal channel configuration. International Journal of Heat and Fluid Flow, 2020, 85, 108630.	1.1	10
9	Computational fluid dynamics simulation of Hyperloop pod predicting laminar-turbulent transition. Railway Engineering Science, 2020, 28, 97-111.	2.7	22
10	Direct numerical simulation of phase change in the presence of non-condensable gases. International Journal of Heat and Mass Transfer, 2020, 151, 119400.	2.5	7
11	SHARP-INTERFACE PHASE-CHANGE MODEL WITH THE VOF METHOD. , 2020, , .		1
12	Oscillation resonances and anisotropic damping of the motion of acoustically levitated droplets in single-axis acoustic levitators. Applied Physics Letters, 2019, 115, .	1.5	17
13	Pool boiling simulation using an interface tracking method: From nucleate boiling to film boiling regime through critical heat flux. International Journal of Heat and Mass Transfer, 2018, 125, 876-890.	2.5	61
14	Data-driven modeling for boiling heat transfer: Using deep neural networks and high-fidelity simulation results. Applied Thermal Engineering, 2018, 144, 305-320.	3.0	79
15	Examples of Pool-Boiling Simulations Using an Interface Tracking Method Applied to Nucleate Boiling, Departure from Nucleate Boiling and Film Boiling. , 2018, , 225-263.		0
16	Computational Fluid Dynamics Analysis of the Transient Cooling of the Boiling Surface at Bubble Departure. Journal of Heat Transfer, 2017, 139, .	1.2	15
17	Large eddy simulation of upward co-current annular boiling flow using an interface tracking method. Nuclear Engineering and Design, 2017, 321, 69-81.	0.8	10
18	Nucleate pool boiling simulations using the interface tracking method: Boiling regime from discrete bubble to vapor mushroom region. International Journal of Heat and Mass Transfer, 2017, 105, 505-524.	2.5	84

#	ARTICLE	IF	CITATIONS
19	A Three-Dimensional, Immersed Boundary, Finite Volume Method for the Simulation of Incompressible Heat Transfer Flows around Complex Geometries. International Journal of Chemical Engineering, 2017, 2017, 1-14.	1.4	1
20	Computational Fluid Dynamic Simulation of Single Bubble Growth under High-Pressure Pool Boiling Conditions. Nuclear Engineering and Technology, 2016, 48, 859-869.	1.1	20
21	Numerical and experimental investigations of human swimming motions. Journal of Sports Sciences, 2016, 34, 1564-1580.	1.0	33
22	A depletable micro-layer model for nucleate pool boiling. Journal of Computational Physics, 2015, 300, 20-52.	1.9	113
23	Direct numerical simulation of bubble dynamics in subcooled and near-saturated convective nucleate boiling. International Journal of Heat and Fluid Flow, 2015, 51, 16-28.	1.1	21
24	Finite size Lagrangian particle tracking approach to simulate dispersed bubbly flows. Chemical Engineering Science, 2015, 122, 321-335.	1.9	5
25	Nonlinear ship waves and computational fluid dynamics. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2014, 90, 278-300.	1.6	4
26	A sharp-interface phase change model for a mass-conservative interface tracking method. Journal of Computational Physics, 2013, 249, 127-161.	1.9	165
27	Parallelization of an unstructured Navier-Stokes solver using a multi-color ordering method for OpenMP. Computers and Fluids, 2013, 88, 496-509.	1.3	24
28	Development of Mass-Conservative Phase-Change Model for Convective Boiling Simulations. , 2013, , .		0
29	COMPUTATIONAL FLUID DYNAMICS SIMULATION OF SINGLE BUBBLE DYNAMICS IN CONVECTIVE BOILING FLOWS. Multiphase Science and Technology, 2013, 25, 287-309.	0.2	7
30	A computational fluid dynamics analysis of hydrodynamic force acting on a swimmer's hand in a swimming competition. Journal of Sports Science and Medicine, 2013, 12, 679-89.	0.7	11
31	A conservative local interface sharpening scheme for the constrained interpolation profile method. International Journal for Numerical Methods in Fluids, 2012, 70, 441-467.	0.9	35
32	A new contact line treatment for a conservative level set method. Journal of Computational Physics, 2012, 231, 3887-3895.	1.9	29
33	CFD simulation of flows around a swimmer in a prone glide position. Suiei Suichu Undo Kagaku, 2010, 13, 1-9.	0.2	7
34	Influence of surface penetration on measured fluid force on a hand model. Journal of Biomechanics, 2008, 41, 3502-3505.	0.9	10