Chiang Juay Teo

List of Publications by Year
in descending order

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		236833	206029
57	2,395	25	48
papers	citations	h-index	g-index

57	57	57	1518
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental investigation on coexisting wave components in an optically accessible rotating detonation combustor. Aerospace Science and Technology, 2021, 111, 106538.	2.5	8
2	Wave Mode Dynamics in an Ethylene-Air Rotating Detonation Combustor. AIAA Journal, 2021, 59, 1808-1823.	1.5	15
3	Effect of the liquidâ€“gas interface curvature for a superhydrophobic surface with longitudinal grooves in turbulent flows. Physics of Fluids, 2021, 33, .	1.6	10
4	Computer modelling of heat strain responses of exercising personnel in tropical climate. Computers in Biology and Medicine, 2021, 134, 104530.	3.9	7
5	Coupling improved discrete velocity method and G13-based gas kinetic flux solver: A hybrid method and its application for non-equilibrium flows. Physics of Fluids, 2021, 33, .	1.6	9
6	Effects of Variable Total Pressures on Instability and Extinction of Rotating Detonation Combustion. Flow, Turbulence and Combustion, 2020, 104, 261-290.	1.4	62
7	Report on the 32nd International Symposium on Shock Waves. Shock Waves, 2020, 30, 559-561.	1.0	1
8	On the deflagration-to-detonation transition (DDT) process with added energetic solid particles for pulse detonation engines (PDE). Shock Waves, 2018, 28, 1143-1167.	1.0	7
9	Experimental study on incident wave speed and the mechanisms of deflagration-to-detonation transition in a bent geometry. Shock Waves, 2018, 28, 205-216.	1.0	10
10	Linear stability of pressure-driven flow over longitudinal superhydrophobic grooves. Physics of Fluids, 2016, 28, .	1.6	17
11	Numerical study on the freely falling plate: Effects of density ratio and thickness-to-length ratio. Physics of Fluids, 2016, 28, .	1.6	15
12	A Switch Function-Based Gas-Kinetic Scheme for Simulation of Inviscid and Viscous Compressible Flows. Advances in Applied Mathematics and Mechanics, 2016, 8, 703-721.	0.7	7
13	A fractional-step lattice Boltzmann flux solver for axisymmetric thermal flows. Numerical Heat Transfer, Part B: Fundamentals, 2016, 69, 111-129.	0.6	13
14	An efficient immersed boundary-lattice Boltzmann flux solver for simulation of 3D incompressible flows with complex geometry. Computers and Fluids, 2016, 124, 54-66.	1.3	29
15	Three-Dimensional Lattice Boltzmann Flux Solver and Its Applications to Incompressible Isothermal and Thermal Flows. Communications in Computational Physics, 2015, 18, 593-620.	0.7	33
16	An immersed boundary-lattice Boltzmann flux solver and its applications to fluidâ€“structure interaction problems. Journal of Fluids and Structures, 2015, 54, 440-465.	1.5	108
17	Explicit formulations of gas-kinetic flux solver for simulation of incompressible and compressible viscous flows. Journal of Computational Physics, 2015, 300, 492-519.	1.9	31
18	Multiphase lattice Boltzmann flux solver for incompressible multiphase flows with large density ratio. Journal of Computational Physics, 2015, 280, 404-423.	1.9	174

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19	Mixing and Heat Transfer Enhancement in Microchannels Containing Converging-Diverging Passages. Journal of Heat Transfer, 2014, 136, .	1.2	45
20	Effects of interface curvature on Poiseuille flow through microchannels and microtubes containing superhydrophobic surfaces with transverse grooves and ribs. Microfluidics and Nanofluidics, 2014, 17, 891-905.	1.0	33
21	Thermal lattice Boltzmann flux solver and its application for simulation of incompressible thermal flows. Computers and Fluids, 2014, 94, 98-111.	1.3	77
22	Forced pulsatile flow to provoke chaotic advection in wavy walled microchannel heat sinks. , 2014, , .		6
23	A fractional step axisymmetric lattice Boltzmann flux solver for incompressible swirling and rotating flows. Computers and Fluids, 2014, 96, 204-214.	1.3	29
24	Enhanced transport phenomenon in small scales using chaotic advection near resonance. International Journal of Heat and Mass Transfer, 2014, 77, 802-808.	2.5	7
25	Development of LBGK and incompressible LBGKâ€based lattice Boltzmann flux solvers for simulation of incompressible flows. International Journal for Numerical Methods in Fluids, 2014, 75, 344-364.	0.9	39
26	Effects of interface deformation on flow through microtubes containing superhydrophobic surfaces with longitudinal ribs and grooves. Microfluidics and Nanofluidics, 2014, 16, 225-236.	1.0	25
27	Development of Lattice Boltzmann Flux Solver for Simulation of Incompressible Flows. Advances in Applied Mathematics and Mechanics, 2014, 6, 436-460.	0.7	120
28	Experimental investigation of flow boiling heat transfer and instabilities in straight microchannels. International Journal of Heat and Mass Transfer, 2013, 66, 655-671.	2.5	79
29	Flow boiling heat transfer and pressure drop in stepped fin microchannels. International Journal of Heat and Mass Transfer, 2013, 67, 234-252.	2.5	66
30	Computational Aerodynamics and Flight Stability of Wing-In-Ground (WIG) Craft. Procedia Engineering, 2013, 67, 15-24.	1.2	15
31	Developing forced convection in convergingâ€“diverging microchannels. International Journal of Heat and Mass Transfer, 2013, 65, 491-499.	2.5	100
32	New correlation formulae for the straight section of the electrospun jet from a polymer drop. Journal of Fluid Mechanics, 2013, 735, 150-175.	1.4	20
33	Direct numerical simulation of fluid flow and heat transfer in periodic wavy channels with rectangular cross-sections. International Journal of Heat and Mass Transfer, 2012, 55, 73-88.	2.5	144
34	Enhanced heat transfer and reduced pressure drop using stepped fin microchannels. , 2011, , .		5
35	Fluid flow and heat transfer in wavy microchannels. International Journal of Heat and Mass Transfer, 2010, 53, 2760-2772.	2.5	429
36	Flow past superhydrophobic surfaces containing longitudinal grooves: effects of interface curvature. Microfluidics and Nanofluidics, 2010, 9, 499-511.	1.0	103

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37	Laser-induced onset of electrospinning. Physical Review E, 2010, 81, 035302.	0.8	3
38	Microchannel flows with superhydrophobic surfaces: Effects of Reynolds number and pattern width to channel height ratio. Physics of Fluids, 2009, 21, .	1.6	93
39	ON THE PROLONG ATTACHMENT OF LEADING EDGE VORTEX ON A FLAPPING WING. Modern Physics Letters B, 2009, 23, 357-360.	1.0	23
40	High-Speed Operation of a Gas-Bearing Supported MEMS-Air Turbine. Journal of Tribology, 2009, 131, .	1.0	18
41	Analysis of Stokes flow in microchannels with superhydrophobic surfaces containing a periodic array of micro-grooves. Microfluidics and Nanofluidics, 2009, 7, 353-382.	1.0	107
42	An Efficient Wavy Microchannel Heat Sink for Electronic Devices. , 2009, , .		3
43	Fabrication and Testing of a High-Speed Microscale Turbocharger. Journal of Microelectromechanical Systems, 2008, 17, 1270-1282.	1.7	21
44	Unsteady Flow and Dynamic Behavior of Ultrashort Lomakin Gas Bearings. Journal of Tribology, 2008, 130, .	1.0	14
45	Analysis of Tilting Effects and Geometric Nonuniformities in Micro-hydrostatic Gas Thrust Bearings. Journal of Turbomachinery, 2006, 128, 606-615.	0.9	9
46	Modeling and Experimental Investigation of Micro-hydrostatic Gas Thrust Bearings for Micro-turbomachines. Journal of Turbomachinery, 2006, 128, 597-605.	0.9	15
47	Hydrostatic Gas Journal Bearings for Micro-Turbomachinery. Journal of Vibration and Acoustics, Transactions of the ASME, 2005, 127, 157-164.	1.0	37
48	Modeling and Experimental Investigation of Micro-Hydrostatic Gas Thrust Bearings for Micro-Turbomachines. , 2005, , .		1
49	Analysis of Tilting Effects and Geometric Non-Uniformities in Micro-Hydrostatic Gas Thrust Bearings. , 2005, , .		0
50	A model for the frequency response of a near-wall hot wire: velocity perturbation and sine-wave voltage perturbation tests. Experimental Thermal and Fluid Science, 2003, 27, 167-175.	1.5	2
51	Enhancement of rotordynamic performance of high-speed micro-rotors for power MEMS applications by precision deep reactive ion etching. Sensors and Actuators A: Physical, 2003, 104, 263-267.	2.0	24
52	Near-wall hot-wire measurements. Experiments in Fluids, 2001, 31, 494-505.	1.1	26
53	The dynamic response of a hot-wire anemometer: IV. Sine-wave voltage perturbation testing for near-wall hot-wire/film probes and the presence of low-high frequency response characteristics. Measurement Science and Technology, 2001, 12, 37-51.	1.4	11
54	The dynamic response of a hot-wire anemometer: III. Voltage-perturbation versus velocity-perturbation testing for near-wall hot-wire/film probes. Measurement Science and Technology, 1999, 10, 152-169.	1.4	22

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55	Dynamic response of a hot-wire anemometer. Part II: A flush-mounted hot-wire and hot-film probes for wall shear stress measurements. Measurement Science and Technology, 1998, 9, 764-778.	1.4	36
56	Dynamic response of a hot-wire anemometer. Part I: A marginally elevated hot-wire probe for near-wall velocity measurements. Measurement Science and Technology, 1998, 9, 751-763.	1.4	26
57	A Simple Hydrodynamic-particle Method for Supersonic Rarefied Flows. Physics of Fluids, 0, , .	1.6	6