

Chiang Juay Teo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4434927/publications.pdf>

Version: 2024-02-01

57
papers

2,395
citations

236833

25
h-index

206029

48
g-index

57
all docs

57
docs citations

57
times ranked

1518
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluid flow and heat transfer in wavy microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 2760-2772.	2.5	429
2	Multiphase lattice Boltzmann flux solver for incompressible multiphase flows with large density ratio. <i>Journal of Computational Physics</i> , 2015, 280, 404-423.	1.9	174
3	Direct numerical simulation of fluid flow and heat transfer in periodic wavy channels with rectangular cross-sections. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 73-88.	2.5	144
4	Development of Lattice Boltzmann Flux Solver for Simulation of Incompressible Flows. <i>Advances in Applied Mathematics and Mechanics</i> , 2014, 6, 436-460.	0.7	120
5	An immersed boundary-lattice Boltzmann flux solver and its applications to fluid-structure interaction problems. <i>Journal of Fluids and Structures</i> , 2015, 54, 440-465.	1.5	108
6	Analysis of Stokes flow in microchannels with superhydrophobic surfaces containing a periodic array of micro-grooves. <i>Microfluidics and Nanofluidics</i> , 2009, 7, 353-382.	1.0	107
7	Flow past superhydrophobic surfaces containing longitudinal grooves: effects of interface curvature. <i>Microfluidics and Nanofluidics</i> , 2010, 9, 499-511.	1.0	103
8	Developing forced convection in converging-diverging microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2013, 65, 491-499.	2.5	100
9	Microchannel flows with superhydrophobic surfaces: Effects of Reynolds number and pattern width to channel height ratio. <i>Physics of Fluids</i> , 2009, 21, .	1.6	93
10	Experimental investigation of flow boiling heat transfer and instabilities in straight microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2013, 66, 655-671.	2.5	79
11	Thermal lattice Boltzmann flux solver and its application for simulation of incompressible thermal flows. <i>Computers and Fluids</i> , 2014, 94, 98-111.	1.3	77
12	Flow boiling heat transfer and pressure drop in stepped fin microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2013, 67, 234-252.	2.5	66
13	Effects of Variable Total Pressures on Instability and Extinction of Rotating Detonation Combustion. <i>Flow, Turbulence and Combustion</i> , 2020, 104, 261-290.	1.4	62
14	Mixing and Heat Transfer Enhancement in Microchannels Containing Converging-Diverging Passages. <i>Journal of Heat Transfer</i> , 2014, 136, .	1.2	45
15	Development of LBCK and incompressible LBCK-based lattice Boltzmann flux solvers for simulation of incompressible flows. <i>International Journal for Numerical Methods in Fluids</i> , 2014, 75, 344-364.	0.9	39
16	Hydrostatic Gas Journal Bearings for Micro-Turbomachinery. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2005, 127, 157-164.	1.0	37
17	Dynamic response of a hot-wire anemometer. Part II: A flush-mounted hot-wire and hot-film probes for wall shear stress measurements. <i>Measurement Science and Technology</i> , 1998, 9, 764-778.	1.4	36
18	Effects of interface curvature on Poiseuille flow through microchannels and microtubes containing superhydrophobic surfaces with transverse grooves and ribs. <i>Microfluidics and Nanofluidics</i> , 2014, 17, 891-905.	1.0	33

#	ARTICLE	IF	CITATIONS
19	Three-Dimensional Lattice Boltzmann Flux Solver and Its Applications to Incompressible Isothermal and Thermal Flows. <i>Communications in Computational Physics</i> , 2015, 18, 593-620.	0.7	33
20	Explicit formulations of gas-kinetic flux solver for simulation of incompressible and compressible viscous flows. <i>Journal of Computational Physics</i> , 2015, 300, 492-519.	1.9	31
21	A fractional step axisymmetric lattice Boltzmann flux solver for incompressible swirling and rotating flows. <i>Computers and Fluids</i> , 2014, 96, 204-214.	1.3	29
22	An efficient immersed boundary-lattice Boltzmann flux solver for simulation of 3D incompressible flows with complex geometry. <i>Computers and Fluids</i> , 2016, 124, 54-66.	1.3	29
23	Dynamic response of a hot-wire anemometer. Part I: A marginally elevated hot-wire probe for near-wall velocity measurements. <i>Measurement Science and Technology</i> , 1998, 9, 751-763.	1.4	26
24	Near-wall hot-wire measurements. <i>Experiments in Fluids</i> , 2001, 31, 494-505.	1.1	26
25	Effects of interface deformation on flow through microtubes containing superhydrophobic surfaces with longitudinal ribs and grooves. <i>Microfluidics and Nanofluidics</i> , 2014, 16, 225-236.	1.0	25
26	Enhancement of rotordynamic performance of high-speed micro-rotors for power MEMS applications by precision deep reactive ion etching. <i>Sensors and Actuators A: Physical</i> , 2003, 104, 263-267.	2.0	24
27	ON THE PROLONG ATTACHMENT OF LEADING EDGE VORTEX ON A FLAPPING WING. <i>Modern Physics Letters B</i> , 2009, 23, 357-360.	1.0	23
28	The dynamic response of a hot-wire anemometer: III. Voltage-perturbation versus velocity-perturbation testing for near-wall hot-wire/film probes. <i>Measurement Science and Technology</i> , 1999, 10, 152-169.	1.4	22
29	Fabrication and Testing of a High-Speed Microscale Turbocharger. <i>Journal of Microelectromechanical Systems</i> , 2008, 17, 1270-1282.	1.7	21
30	New correlation formulae for the straight section of the electrospun jet from a polymer drop. <i>Journal of Fluid Mechanics</i> , 2013, 735, 150-175.	1.4	20
31	High-Speed Operation of a Gas-Bearing Supported MEMS-Air Turbine. <i>Journal of Tribology</i> , 2009, 131, .	1.0	18
32	Linear stability of pressure-driven flow over longitudinal superhydrophobic grooves. <i>Physics of Fluids</i> , 2016, 28, .	1.6	17
33	Modeling and Experimental Investigation of Micro-hydrostatic Gas Thrust Bearings for Micro-turbomachines. <i>Journal of Turbomachinery</i> , 2006, 128, 597-605.	0.9	15
34	Computational Aerodynamics and Flight Stability of Wing-In-Ground (WIG) Craft. <i>Procedia Engineering</i> , 2013, 67, 15-24.	1.2	15
35	Numerical study on the freely falling plate: Effects of density ratio and thickness-to-length ratio. <i>Physics of Fluids</i> , 2016, 28, .	1.6	15
36	Wave Mode Dynamics in an Ethylene-Air Rotating Detonation Combustor. <i>AIAA Journal</i> , 2021, 59, 1808-1823.	1.5	15

#	ARTICLE	IF	CITATIONS
37	Unsteady Flow and Dynamic Behavior of Ultrashort Lomakin Gas Bearings. <i>Journal of Tribology</i> , 2008, 130, .	1.0	14
38	A fractional-step lattice Boltzmann flux solver for axisymmetric thermal flows. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2016, 69, 111-129.	0.6	13
39	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. <i>Measurement Science and Technology</i> , 2001, 12, 37-51.	1.4	11
40	Experimental study on incident wave speed and the mechanisms of deflagration-to-detonation transition in a bent geometry. <i>Shock Waves</i> , 2018, 28, 205-216.	1.0	10
41	Effect of the liquid-gas interface curvature for a superhydrophobic surface with longitudinal grooves in turbulent flows. <i>Physics of Fluids</i> , 2021, 33, .	1.6	10
42	Analysis of Tilting Effects and Geometric Nonuniformities in Micro-hydrostatic Gas Thrust Bearings. <i>Journal of Turbomachinery</i> , 2006, 128, 606-615.	0.9	9
43	Coupling improved discrete velocity method and G13-based gas kinetic flux solver: A hybrid method and its application for non-equilibrium flows. <i>Physics of Fluids</i> , 2021, 33, .	1.6	9
44	Experimental investigation on coexisting wave components in an optically accessible rotating detonation combustor. <i>Aerospace Science and Technology</i> , 2021, 111, 106538.	2.5	8
45	Enhanced transport phenomenon in small scales using chaotic advection near resonance. <i>International Journal of Heat and Mass Transfer</i> , 2014, 77, 802-808.	2.5	7
46	A Switch Function-Based Gas-Kinetic Scheme for Simulation of Inviscid and Viscous Compressible Flows. <i>Advances in Applied Mathematics and Mechanics</i> , 2016, 8, 703-721.	0.7	7
47	On the deflagration-to-detonation transition (DDT) process with added energetic solid particles for pulse detonation engines (PDE). <i>Shock Waves</i> , 2018, 28, 1143-1167.	1.0	7
48	Computer modelling of heat strain responses of exercising personnel in tropical climate. <i>Computers in Biology and Medicine</i> , 2021, 134, 104530.	3.9	7
49	Forced pulsatile flow to provoke chaotic advection in wavy walled microchannel heat sinks. , 2014, , .		6
50	A Simple Hydrodynamic-particle Method for Supersonic Rarefied Flows. <i>Physics of Fluids</i> , 0, , .	1.6	6
51	Enhanced heat transfer and reduced pressure drop using stepped fin microchannels. , 2011, , .		5
52	An Efficient Wavy Microchannel Heat Sink for Electronic Devices. , 2009, , .		3
53	Laser-induced onset of electrospinning. <i>Physical Review E</i> , 2010, 81, 035302.	0.8	3
54	A model for the frequency response of a near-wall hot wire: velocity perturbation and sine-wave voltage perturbation tests. <i>Experimental Thermal and Fluid Science</i> , 2003, 27, 167-175.	1.5	2

#	ARTICLE	IF	CITATIONS
55	Report on the 32nd International Symposium on Shock Waves. Shock Waves, 2020, 30, 559-561.	1.0	1
56	Modeling and Experimental Investigation of Micro-Hydrostatic Gas Thrust Bearings for Micro-Turbomachines. , 2005, , .		1
57	Analysis of Tilting Effects and Geometric Non-Uniformities in Micro-Hydrostatic Gas Thrust Bearings. , 2005, , .		0