

Tong-Miin Liou

List of Publications by Year in descending order

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68
papers

1,450
citations

279798

23
h-index

361022

35
g-index

68
all docs

68
docs citations

68
times ranked

902
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of porous rib and flow pulsation on microchannel thermal performance using a novel thermal lattice Boltzmann method. <i>International Journal of Thermal Sciences</i> , 2022, 172, 107345.	4.9	8
2	Experimental studies of turbulent pulsating flow and heat transfer in a serpentine channel with winglike turbulators. <i>International Communications in Heat and Mass Transfer</i> , 2022, 131, 105837.	5.6	19
3	Effects of Attack Angle and Relative Thickness of Novel Wing-Shaped Turbulators on Turbulent Hydrothermal Performance in a Two-Pass Square Channel. <i>Journal of Turbomachinery</i> , 2021, 143, .	1.7	3
4	Lattice Boltzmann study of flow pulsation on heat transfer augmentation in a louvered microchannel heat sink. <i>International Journal of Heat and Mass Transfer</i> , 2020, 148, 119139.	4.8	26
5	Thermal-fluidic correlations for turbulent flow in a serpentine heat exchanger with novel wing-shaped turbulators. <i>International Journal of Heat and Mass Transfer</i> , 2020, 160, 120220.	4.8	23
6	A consistent thermal lattice Boltzmann method for heat transfer in arbitrary combinations of solid, fluid, and porous media. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 368, 113200.	6.6	18
7	Temperature-Sensitive Paint Applications in the Heat Transfer Analysis of 90° Elbow Microchannel Flow with Sharp and Curved Turns. <i>Journal of Mechanics</i> , 2020, 36, 551-565.	1.4	1
8	Lattice Boltzmann simulation of turbulent flow in rotating rectangular ducts with various aspect ratios. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	5
9	Influence of slat attack angle and pitch ratio on turbulent hydrothermal characteristics in a louvered two-pass square channel. <i>International Journal of Heat and Mass Transfer</i> , 2019, 143, 118527.	4.8	9
10	Thermal fluid characteristics of pulsating heat pipe in radially rotating thin pad. <i>International Journal of Heat and Mass Transfer</i> , 2019, 131, 273-290.	4.8	22
11	Investigation of nanofluids on heat transfer enhancement in a louvered microchannel with lattice Boltzmann method. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 751-762.	3.6	18
12	Large eddy simulation of rotating turbulent flows and heat transfer by the lattice Boltzmann method. <i>Physics of Fluids</i> , 2018, 30, .	4.0	25
13	Three-dimensional multidomain lattice Boltzmann grid refinement for passive scalar transport. <i>Physical Review E</i> , 2018, 98, 013306.	2.1	7
14	Nusselt number and friction factor correlations for laminar flow in parallelogram serpentine micro heat exchangers. <i>Applied Thermal Engineering</i> , 2018, 143, 871-882.	6.0	16
15	Isolated and Coupled Effects of Rotating and Buoyancy Number on Heat Transfer and Pressure Drop in a Rotating Two-Pass Parallelogram Channel With Transverse Ribs. <i>Journal of Heat Transfer</i> , 2018, 140, .	2.1	5
16	Experimental study of heat transfer enhancement with segmented flow in a microchannel by using molecule-based temperature sensors. <i>International Journal of Heat and Mass Transfer</i> , 2017, 107, 657-666.	4.8	8
17	Effect of included angle on turbulent flow and heat transfer in rhombic serpentine heat exchangers. <i>International Journal of Thermal Sciences</i> , 2017, 114, 155-171.	4.9	9
18	Roller-Induced Bundling of Long Silver Nanowire Networks for Strong Interfacial Adhesion, Highly Flexible, Transparent Conductive Electrodes. <i>Scientific Reports</i> , 2017, 7, 16662.	3.3	15

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19	Heat Transfer and Flow Characteristics of Two-Pass Parallelogram Channels With Attached and Detached Transverse Ribs. , 2016, , .		1
20	Thermal performance of rotating two-pass ribbed square channel with wavy sidewalls. Experimental Thermal and Fluid Science, 2015, 68, 412-434.	2.7	2
21	Three-dimensional rarefied gas flows in constricted microchannels with different aspect ratios: asymmetry bifurcations and secondary flows. Microfluidics and Nanofluidics, 2015, 18, 279-292.	2.2	7
22	Fabricating high-resolution offset color-filter black matrix by integrating heterostructured substrate with inkjet printing. Journal of Micromechanics and Microengineering, 2014, 24, 055008.	2.6	4
23	Heat transfer and pressure drop measurements of rotating twin-pass parallelogram ribbed channel. International Journal of Thermal Sciences, 2014, 79, 206-219.	4.9	17
24	The hemodynamics in intracranial aneurysm ruptured region with active contrast leakage during computed tomography angiography. Computational Mechanics, 2014, 54, 987-997.	4.0	1
25	The experimental investigation of axial heat conduction effect on the heat transfer analysis in microchannel flow. International Journal of Heat and Mass Transfer, 2014, 70, 169-173.	4.8	39
26	Study on microchannel flows with a sudden contractionâ€“expansion at a wide range of Knudsen number using lattice Boltzmann method. Microfluidics and Nanofluidics, 2014, 16, 315-327.	2.2	38
27	Thermal Performance of a Radially Rotating Twin-Pass Smooth-Walled Parallelogram Channel. Journal of Turbomachinery, 2014, 136, .	1.7	19
28	A DNA methylation assay for detection of ovarian cancer cells using a HpaII/MspI digestion-based PCR assay in an integrated microfluidic system. Microfluidics and Nanofluidics, 2013, 15, 575-585.	2.2	26
29	The application of temperature-sensitive paints for surface and fluid temperature measurements in both thermal developing and fully developed regions of a microchannel. Journal of Micromechanics and Microengineering, 2013, 23, 037001.	2.6	21
30	Influence of Radial Rotation on Heat Transfer in a Rectangular Channel With Two Opposite Walls Roughened by Hemispherical Protrusions at High Rotation Numbers. Journal of Turbomachinery, 2012, 134, .	1.7	8
31	Flexible tactile sensors based on nanoimprinted sub-20 NM piezoelectric copolymer nanoglass films. , 2012, , .		0
32	Heat Transfer in Radially Rotating Pin-Fin Channel at High Rotation Numbers. Journal of Turbomachinery, 2010, 132, .	1.7	30
33	Effects of actuating waveform, ink property, and nozzle size on piezoelectrically driven inkjet droplets. Microfluidics and Nanofluidics, 2010, 8, 575-586.	2.2	44
34	Coriolis and rotating buoyancy effect on detailed heat transfer distributions in a two-pass square channel roughened by 45° ribs at high rotation numbers. International Journal of Heat and Mass Transfer, 2010, 53, 1349-1363.	4.8	58
35	Heat transfer in rotating scale-roughened trapezoidal duct at high rotation numbers. Applied Thermal Engineering, 2009, 29, 1682-1693.	6.0	22
36	Heat transfer of rotating rectangular duct with compound scaled roughness and V-ribs at high rotation numbers. International Journal of Thermal Sciences, 2009, 48, 174-187.	4.9	23

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37	Analysis on numerical results for stage separation with different exhaust holes. International Communications in Heat and Mass Transfer, 2009, 36, 342-345.	5.6	7
38	Effects of stent porosity on hemodynamics in a sidewall aneurysm model. Journal of Biomechanics, 2008, 41, 1174-1183.	2.1	95
39	Effects of Impact Inertia and Surface Characteristics on Deposited Polymer Droplets in Microcavities. Journal of Microelectromechanical Systems, 2008, 17, 278-287.	2.5	19
40	Hemodynamics altered by placing helix stents in an aneurysm at a 45° angle to the curved vessel. Physics in Medicine and Biology, 2008, 53, 3763-3776.	3.0	16
41	Heat transfer improvement by arranging detached ribs on suction surfaces of rotating internal coolant passages. International Journal of Heat and Mass Transfer, 2007, 50, 2414-2424.	4.8	6
42	Numerical and experimental studies on pulsatile flow in aneurysms arising laterally from a curved parent vessel at various angles. Journal of Biomechanics, 2007, 40, 1268-1275.	2.1	40
43	Flowfield and Pressure Measurements in a Rotating Two-Pass Duct With Staggered Rounded Ribs Skewed 45Degrees to the Flow. Journal of Turbomachinery, 2006, 128, 340-348.	1.7	11
44	Numerical Simulation of Turbulent Fluid Flow and Heat Transfer in a Ribbed Rotating Two-Pass Square Duct. International Journal of Rotating Machinery, 2005, 2005, 152-160.	0.8	3
45	Intra-Aneurysmal Flow With Helix and Mesh Stent Placement Across Side-Wall Aneurysm Pore of a Straight Parent Vessel. Journal of Biomechanical Engineering, 2004, 126, 36-43.	1.3	50
46	Pressure and Flow Characteristics in a Rotating Two-Pass Square Duct With 45-Deg Angled Ribs. Journal of Turbomachinery, 2004, 126, 212-219.	1.7	9
47	Rotating Effect on Fluid Flow in Two Smooth Ducts Connected by a 180-Degree Bend. Journal of Fluids Engineering, Transactions of the ASME, 2003, 125, 138-148.	1.5	36
48	Heat Transfer, Fluid Flow, and Pressure Measurements Inside a Rotating Two-Pass Duct With Detached 90-Deg Ribs. Journal of Turbomachinery, 2003, 125, 565-574.	1.7	38
49	Large Eddy Simulation of Turbulent Wake Behind a Square Cylinder With a Nearby Wall. Journal of Fluids Engineering, Transactions of the ASME, 2002, 124, 81-90.	1.5	28
50	Fluid Flow and Heat Transfer in a Rotating Two-Pass Square Duct With In-Line 90-deg Ribs. Journal of Turbomachinery, 2002, 124, 260-268.	1.7	44
51	Numerical simulation of turbulent flow field and heat transfer in a two-dimensional channel with periodic slit ribs. International Journal of Heat and Mass Transfer, 2002, 45, 4493-4505.	4.8	37
52	Laser-Doppler Velocimetry Measurements Inside a Backward Curved Centrifugal Fan. International Journal of Rotating Machinery, 2001, 7, 173-181.	0.8	1
53	Fluid Flow in a 180 deg Sharp Turning Duct With Different Divider Thicknesses. Journal of Turbomachinery, 1999, 121, 569-576.	1.7	64
54	Study on Side-Jet Injection Near a Duct Entry With Various Injection Angles. Journal of Fluids Engineering, Transactions of the ASME, 1999, 121, 580-587.	1.5	2

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55	Flowfield Investigation of the Effect of Rib Open Area Ratio in a Rectangular Duct. Journal of Fluids Engineering, Transactions of the ASME, 1998, 120, 504-512.	1.5	7
56	Turbulent Flow Past an Array of Bluff Bodies Aligned Along the Channel Axis. Journal of Fluids Engineering, Transactions of the ASME, 1998, 120, 520-530.	1.5	5
57	Effect of Rib Height and Pitch on the Thermal Performance of a Passage Disturbed by Detached Solid Ribs. Journal of Turbomachinery, 1998, 120, 581-588.	1.7	13
58	Heat Transfer and Friction in a Low-Aspect-Ratio Rectangular Channel with Staggered Slit-Ribbed Walls. International Journal of Rotating Machinery, 1998, 4, 283-291.	0.8	4
59	LDV Measurements of Spatially Periodic Flows Over a Detached Solid-Rib Array. Journal of Fluids Engineering, Transactions of the ASME, 1997, 119, 383-389.	1.5	17
60	Heat Transfer Augmentation in a Rectangular Channel With Slit Rib-Turbulators on Two Opposite Walls. Journal of Turbomachinery, 1997, 119, 617-623.	1.7	17
61	STUDY OF PULSATILE FLOWS IN LATERAL ANEURYSM MODELS ON A STRAIGHT PARENT VESSEL USING PARTICLE TRACKING VELOCIMETRY. Journal of Flow Visualization and Image Processing, 1996, 3, 207-223.	0.5	6
62	Holographic Interferometry Study of Spatially Periodic Heat Transfer in a Channel With Ribs Detached From One Wall. Journal of Heat Transfer, 1995, 117, 32-39.	2.1	56
63	Laser holographic interferometry study of developing heat transfer in a duct with a detached rib array. International Journal of Heat and Mass Transfer, 1995, 38, 91-100.	4.8	41
64	Heat Transfer and Friction in a Low-Aspect-Ratio Rectangular Channel With Staggered Perforated Ribs on Two Opposite Walls. Journal of Heat Transfer, 1995, 117, 843-850.	2.1	49
65	Effect of Permeable Ribs on Heat Transfer and Friction in a Rectangular Channel. Journal of Turbomachinery, 1995, 117, 265-271.	1.7	13
66	Augmented Heat Transfer in a Rectangular Channel With Permeable Ribs Mounted on the Wall. Journal of Heat Transfer, 1994, 116, 912-920.	2.1	47
67	Pulsatile Flow Through a Bifurcation With a Cerebrovascular Aneurysm. Journal of Biomechanical Engineering, 1994, 116, 112-118.	1.3	12
68	Developing Heat Transfer and Friction in a Ribbed Rectangular Duct With Flow Separation at Inlet. Journal of Heat Transfer, 1992, 114, 565-573.	2.1	60