Tong-Miin Liou

List of Publications by Year
in descending order

68	1,450	279798	361022
papers	citations	23 h-index	35 g-index

68	68	68	902
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effects of stent porosity on hemodynamics in a sidewall aneurysm model. Journal of Biomechanics, 2008, 41, 1174-1183.	2.1	95
2	Fluid Flow in a 180 deg Sharp Turning Duct With Different Divider Thicknesses. Journal of Turbomachinery, 1999, 121, 569-576.	1.7	64
3	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
4	Coriolis and rotating buoyancy effect on detailed heat transfer distributions in a two-pass square channel roughened by 45Â° ribs at high rotation numbers. International Journal of Heat and Mass Transfer, 2010, 53, 1349-1363.	4.8	58
5	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
6	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
7	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
8	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
9	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
10	Effects of actuating waveform, ink property, and nozzle size on piezoelectrically driven inkjet droplets. Microfluidics and Nanofluidics, 2010, 8, 575-586.	2.2	44
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	Heat Transfer in Radially Rotating Pin-Fin Channel at High Rotation Numbers. Journal of Turbomachinery, 2010, 132, .	1.7	30

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19	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
20	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
21	Lattice Boltzmann study of flow pulsation on heat transfer augmentation in a louvered microchannel heat sink. International Journal of Heat and Mass Transfer, 2020, 148, 119139.	4.8	26
22	Large eddy simulation of rotating turbulent flows and heat transfer by the lattice Boltzmann method. Physics of Fluids, 2018, 30, .	4.0	25
23	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
24	Thermal-fluidic correlations for turbulent flow in a serpentine heat exchanger with novel wing-shaped turbulators. International Journal of Heat and Mass Transfer, 2020, 160, 120220.	4.8	23
25	Heat transfer in rotating scale-roughened trapezoidal duct at high rotation numbers. Applied Thermal Engineering, 2009, 29, 1682-1693.	6.0	22
26	Thermal fluid characteristics of pulsating heat pipe in radially rotating thin pad. International Journal of Heat and Mass Transfer, 2019, 131, 273-290.	4.8	22
27	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
28	Effects of Impact Inertia and Surface Characteristics on Deposited Polymer Droplets in Microcavities. Journal of Microelectromechanical Systems, 2008, 17, 278-287.	2.5	19
29	Thermal Performance of a Radially Rotating Twin-Pass Smooth-Walled Parallelogram Channel. Journal of Turbomachinery, 2014, 136, .	1.7	19
30	Experimental studies of turbulent pulsating flow and heat transfer in a serpentine channel with winglike turbulators. International Communications in Heat and Mass Transfer, 2022, 131, 105837.	5.6	19
31	Investigation of nanofluids on heat transfer enhancement in a louvered microchannel with lattice Boltzmann method. Journal of Thermal Analysis and Calorimetry, 2019, 135, 751-762.	3.6	18
32	A consistent thermal lattice Boltzmann method for heat transfer in arbitrary combinations of solid, fluid, and porous media. Computer Methods in Applied Mechanics and Engineering, 2020, 368, 113200.	6.6	18
33	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
34	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
35	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
36	Hemodynamics altered by placing helix stents in an aneurysm at a 45Â° angle to the curved vessel. Physics in Medicine and Biology, 2008, 53, 3763-3776.	3.0	16

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37	Nusselt number and friction factor correlations for laminar flow in parallelogram serpentine micro heat exchangers. Applied Thermal Engineering, 2018, 143, 871-882.	6.0	16
38	Roller-Induced Bundling of Long Silver Nanowire Networks for Strong Interfacial Adhesion, Highly Flexible, Transparent Conductive Electrodes. Scientific Reports, 2017, 7, 16662.	3.3	15
39	Effect of Permeable Ribs on Heat Transfer and Friction in a Rectangular Channel. Journal of Turbomachinery, 1995, 117, 265-271.	1.7	13
40	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
41	Pulsatile Flow Through a Bifurcation With a Cerebrovascular Aneurysm. Journal of Biomechanical Engineering, 1994, 116, 112-118.	1.3	12
42	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
43	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
44	Effect of included angle on turbulent flow and heat transfer in rhombic serpentine heat exchangers. International Journal of Thermal Sciences, 2017, 114, 155-171.	4.9	9
45	Influence of slat attack angle and pitch ratio on turbulent hydrothermal characteristics in a louvered two-pass square channel. International Journal of Heat and Mass Transfer, 2019, 143, 118527.	4.8	9
46	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
47	Experimental study of heat transfer enhancement with segmented flow in a microchannel by using molecule-based temperature sensors. International Journal of Heat and Mass Transfer, 2017, 107, 657-666.	4.8	8
48	Evaluation of porous rib and flow pulsation on microchannel thermal performance using a novel thermal lattice Boltzmann method. International Journal of Thermal Sciences, 2022, 172, 107345.	4.9	8
49	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
50	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
51	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
52	Three-dimensional multidomain lattice Boltzmann grid refinement for passive scalar transport. Physical Review E, 2018, 98, 013306.	2.1	7
53	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
54	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

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55	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
56	Lattice Boltzmann simulation of turbulent flow in rotating rectangular ducts with various aspect ratios. Physical Review Fluids, 2020, 5, .	2.5	5
57	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. Journal of Heat Transfer, 2018, 140, .	2.1	5
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	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
60	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
61	Effects of Attack Angle and Relative Thickness of Novel Wing-Shaped Turbulators on Turbulent Hydrothermal Performance in a Two-Pass Square Channel. Journal of Turbomachinery, 2021, 143, .	1.7	3
62	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
63	Thermal performance of rotating two-pass ribbed square channel with wavy sidewalls. Experimental Thermal and Fluid Science, 2015, 68, 412-434.	2.7	2
64	Laser-Doppler Velocimetry Measurements Inside a Backward Curved Centrifugal Fan. International Journal of Rotating Machinery, 2001, 7, 173-181.	0.8	1
65	The hemodynamics in intracranial aneurysm ruptured region with active contrast leakage during computed tomography angiography. Computational Mechanics, 2014, 54, 987-997.	4.0	1
66	Heat Transfer and Flow Characteristics of Two-Pass Parallelogram Channels With Attached and Detached Transverse Ribs. , 2016, , .		1
67	Temperature-Sensitive Paint Applications in the Heat Transfer Analysis of 90Â° Elbow Microchannel Flow with Sharp and Curved Turns. Journal of Mechanics, 2020, 36, 551-565.	1.4	1
68	Flexible tactile sensors based on nanoimprinted sub-20 NM piezoelectric copolymer nanograss films. , 2012, , .		0