

Chih-Yung Huang

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

395
citations

840776

11
h-index

794594

19
g-index

28
all docs

28
docs citations

28
times ranked

299
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Investigation on the Performance of a Compressed-Air Driven Piston Engine. <i>Energies</i> , 2013, 6, 1731-1745.	3.1	57
2	The experimental investigation of axial heat conduction effect on the heat transfer analysis in microchannel flow. <i>International Journal of Heat and Mass Transfer</i> , 2014, 70, 169-173.	4.8	39
3	The applications of pressure-sensitive paint in microfluidic systems. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 739-753.	2.2	29
4	Pressure measurements with molecule-based pressure sensors in straight and constricted PDMS microchannels. <i>Journal of Micromechanics and Microengineering</i> , 2012, 22, 065021.	2.6	26
5	The Applications of Piston Type Compressed Air Engines on Motor Vehicles. <i>Procedia Engineering</i> , 2014, 79, 61-65.	1.2	26
6	Modified intake and exhaust system for piston-type compressed air engines. <i>Energy</i> , 2015, 90, 516-524.	8.8	26
7	The application of temperature-sensitive paints for surface and fluid temperature measurements in both thermal developing and fully developed regions of a microchannel. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 037001.	2.6	21
8	Applications of Pixel-by-Pixel Calibration Method in Microscale Measurements With Pressure-Sensitive Paint. <i>Journal of Microelectromechanical Systems</i> , 2012, 21, 1090-1097.	2.5	18
9	Flexible Plate in the Wake of a Square Cylinder for Piezoelectric Energy Harvesting—Parametric Study Using Fluid-Structure Interaction Modeling. <i>Energies</i> , 2020, 13, 2645.	3.1	16
10	Oxygen and nitrogen gases mixing in T-type micromixers visualized and quantitatively characterized using pressure-sensitive paint. <i>International Journal of Heat and Mass Transfer</i> , 2017, 111, 520-531.	4.8	14
11	Development of a Passive Magnetorheological Fluid Clutch With Field-Blocking Mechanism. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-5.	2.1	14
12	Application of pressure-sensitive paint for the characterization of mixing with various gases in T-type micromixers. <i>International Journal of Heat and Mass Transfer</i> , 2020, 156, 119710.	4.8	14
13	Performance analysis of a two-stage expansion air engine. <i>Energy</i> , 2016, 115, 140-148.	8.8	12
14	Particle image velocimetry and infrared thermography measurements in a two-pass 90-deg ribbed parallelogram channel. <i>International Journal of Heat and Mass Transfer</i> , 2016, 93, 1175-1189.	4.8	11
15	Pressure-sensitive paint measurements with temperature correction on the wing of AGARD-B under transonic flow conditions. <i>Measurement Science and Technology</i> , 2021, 32, 094001.	2.6	11
16	Speeding up thermocapillary migration of a confined bubble by wall slip. <i>Journal of Fluid Mechanics</i> , 2014, 746, 31-52.	3.4	10
17	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
18	Simultaneous Measurements of Thickness and Temperature Profile of the Lubricant Film at Chip-tool Interface during Machining Process Using Luminescent Sensors. <i>Procedia Engineering</i> , 2014, 79, 9-16.	1.2	7

#	ARTICLE	IF	CITATIONS
19	Design of Slip Boundary Produced by a Lotus Structure Applied to a Hydrostatic Bearing. Tribology Letters, 2014, 55, 55-64.	2.6	6
20	Quantitative visualization of asymmetric gas flow in constricted microchannels by using pressure-sensitive paint. Journal of Micromechanics and Microengineering, 2016, 26, 105002.	2.6	5
21	Optical hydrogen sensing method using temperature-sensitive luminophore on porous palladium. Sensors and Actuators B: Chemical, 2011, 155, 372-374.	7.8	4
22	Water tunnel study of a cantilever flexible plate in the wake of a square cylinder. Microsystem Technologies, 2020, 26, 3435-3449.	2.0	4
23	Integrating multiple physical properties of microchannel gas flow to extend the Navier-Stokes equations over a wide Knudsen number range. Physics of Fluids, 2021, 33, 092006.	4.0	4
24	Pressure-sensitive paint measurements for microscale supersonic flow with wedge models. Aerospace Science and Technology, 2022, 127, 107713.	4.8	4
25	A simplified quasi-2D model for gas flow in microchannels and microtubes. Journal of Micromechanics and Microengineering, 2020, 30, 105004.	2.6	3
26	Global flow visualization of transonic cavity flow with various yaw angles. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 0, , 095441002098408.	1.3	3
27	Luminescent Molecular Sensors for Assessment of Temperature Field in Machining. Tribology Letters, 2014, 54, 129-137.	2.6	2
28	Temperature-Sensitive Paint Applications in the Heat Transfer Analysis of 90° Elbow Microchannel Flow with Sharp and Curved Turns. Journal of Mechanics, 2020, 36, 551-565.	1.4	1