

# Chih-Yung Huang

## List of Publications by Year in descending order

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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	Pressure-sensitive paint measurements for microscale supersonic flow with wedge models. <i>Aerospace Science and Technology</i> , 2022, 127, 107713.	4.8	4
2	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
3	Integrating multiple physical properties of microchannel gas flow to extend the Navier–Stokes equations over a wide Knudsen number range. <i>Physics of Fluids</i> , 2021, 33, 092006.	4.0	4
4	Water tunnel study of a cantilever flexible plate in the wake of a square cylinder. <i>Microsystem Technologies</i> , 2020, 26, 3435-3449.	2.0	4
5	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
6	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
7	A simplified quasi-2D model for gas flow in microchannels and microtubes. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 105004.	2.6	3
8	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
9	Development of a Passive Magnetorheological Fluid Clutch With Field-Blocking Mechanism. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-5.	2.1	14
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	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
12	Quantitative visualization of asymmetric gas flow in constricted microchannels by using pressure-sensitive paint. <i>Journal of Micromechanics and Microengineering</i> , 2016, 26, 105002.	2.6	5
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	Modified intake and exhaust system for piston-type compressed air engines. <i>Energy</i> , 2015, 90, 516-524.	8.8	26
16	The applications of pressure-sensitive paint in microfluidic systems. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 739-753.	2.2	29
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	The Applications of Piston Type Compressed Air Engines on Motor Vehicles. <i>Procedia Engineering</i> , 2014, 79, 61-65.	1.2	26
20	Luminescent Molecular Sensors for Assessment of Temperature Field in Machining. <i>Tribology Letters</i> , 2014, 54, 129-137.	2.6	2
21	Design of Slip Boundary Produced by a Lotus Structure Applied to a Hydrostatic Bearing. <i>Tribology Letters</i> , 2014, 55, 55-64.	2.6	6
22	Speeding up thermocapillary migration of a confined bubble by wall slip. <i>Journal of Fluid Mechanics</i> , 2014, 746, 31-52.	3.4	10
23	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
24	Experimental Investigation on the Performance of a Compressed-Air Driven Piston Engine. <i>Energies</i> , 2013, 6, 1731-1745.	3.1	57
25	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
26	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
27	Optical hydrogen sensing method using temperature-sensitive luminophore on porous palladium. <i>Sensors and Actuators B: Chemical</i> , 2011, 155, 372-374.	7.8	4
28	Global flow visualization of transonic cavity flow with various yaw angles. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 0, , 095441002098408.	1.3	3