

# Liang Hu

## List of Publications by Year in descending order

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39  
papers

347  
citations

759233

12  
h-index

888059

17  
g-index

39  
all docs

39  
docs citations

39  
times ranked

330  
citing authors

#	ARTICLE	IF	CITATIONS
1	Morphological characteristics of the drop on the travelling substrate with a sharp stepped configuration. <i>Experimental Thermal and Fluid Science</i> , 2022, 132, 110551.	2.7	0
2	Fine Texture Detection Based on a Solidâ€“Liquid Composite Flexible Tactile Sensor Array. <i>Micromachines</i> , 2022, 13, 440.	2.9	1
3	Timing jitter of monodisperse droplets generated by capillary jet breakup. <i>Physics of Fluids</i> , 2022, 34, 042107.	4.0	2
4	Calculation of field and force of Halbach arrays: Improved magnetic charge method for irregular magnetized magnets. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2022, 236, 11136-11149.	2.1	1
5	Modeling of pneumatic dual reciprocating bellows pump with flexible linkage. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 1085-1096.	2.1	0
6	A simple and easy-implemented time-of-flight determination method for liquid ultrasonic flow meters based on ultrasonic signal onset detection and multiple-zero-crossing technique. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 168, 108398.	5.0	12
7	Deformation characteristics of droplet generated by Rayleigh jet breakup. <i>AIP Advances</i> , 2021, 11, .	1.3	4
8	Multi-Structural Optimization of Bearingless Permanent Magnet Slice Motor Based on Virtual Prototype in Ansoft Maxwell. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4740.	2.5	6
9	Non-Contact Ultrasonic Flow Measurement for Small Pipes Based on AlN Piezoelectric Micromachined Ultrasonic Transducer Arrays. <i>Journal of Microelectromechanical Systems</i> , 2021, 30, 480-487.	2.5	12
10	Design Method of Bearingless Permanent Magnet Slice Motor for Maglev Centrifugal Pump Based on Performance Metric Cluster. <i>Actuators</i> , 2021, 10, 153.	2.3	4
11	A method to avoid the cycle-skip phenomenon in time-of-flight determination for ultrasonic flow measurement. <i>Journal of Zhejiang University: Science A</i> , 2021, 22, 695-706.	2.4	2
12	An Alignment-Free Sensing Module for Noninvasive Radial Artery Blood Pressure Measurement. <i>Electronics (Switzerland)</i> , 2021, 10, 2896.	3.1	3
13	Effects of groove orientation on transmission characteristics of hydro-viscous film in the parallel-disk system. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2020, 234, 183-192.	1.8	1
14	Jet formation and breakup inside highly deformed bubbles. <i>International Journal of Heat and Mass Transfer</i> , 2020, 163, 120507.	4.8	6
15	Discrimination of Object Curvature Based on a Sparse Tactile Sensor Array. <i>Micromachines</i> , 2020, 11, 583.	2.9	5
16	Experimental investigation of the behaviors of highly deformed bubbles produced by coaxial coalescence. <i>Experimental Thermal and Fluid Science</i> , 2020, 117, 110114.	2.7	6
17	An ultrasonic flowmeter for liquid flow measurement in small pipes using AlN piezoelectric micromachined ultrasonic transducer arrays. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 125010.	2.6	15
18	Highly Accurate Airflow Volumetric Flowmeters via pMUTs Arrays Based on Transit Time. <i>Journal of Microelectromechanical Systems</i> , 2019, 28, 707-716.	2.5	33

#	ARTICLE	IF	CITATIONS
19	A method combining measurement tool and numerical simulation for calculating acoustic signals of ultrasonic flowmeter. IEEE Sensors Journal, 2019, , 1-1.	4.7	3
20	Jet formation during the gas penetration through a thin liquid layer. Physics of Fluids, 2019, 31, 017105.	4.0	4
21	Submerged injection of gas into a thin liquid sheet. International Journal of Multiphase Flow, 2019, 110, 118-131.	3.4	7
22	Drop Encapsulated in Bubble: A New Encapsulation Structure. Physical Review Letters, 2018, 120, 054503.	7.8	13
23	Similarity Judgment-Based Double-Threshold Method for Time-of-Flight Determination in an Ultrasonic Gas Flowmeter. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 24-32.	4.7	30
24	Directional Transport of a Liquid Drop between Parallel and Nonparallel Combinative Plates. Langmuir, 2018, 34, 4484-4493.	3.5	6
25	Combined effects of Coriolis force and temperature-viscosity dependency on hydro-viscous transmission of rotating parallel disks. Tribology International, 2018, 117, 168-173.	5.9	10
26	Integrated Giant Magnetoresistance Technology for Approachable Weak Biomagnetic Signal Detections. Sensors, 2018, 18, 148.	3.8	33
27	Estimation of ultrasonic signal onset for flow measurement. Flow Measurement and Instrumentation, 2017, 55, 1-12.	2.0	17
28	Coriolis effects on torque transmission of hydro-viscous film in parallel disks with imposed throughflow. Tribology International, 2017, 115, 100-107.	5.9	5
29	Flowrate Determination for Arbitrary Multipath Arrangement Based on Generalized Inverse of Matrix. IEEE Sensors Journal, 2017, 17, 3625-3634.	4.7	9
30	Flow behavior control in immersion lithography. Flow Measurement and Instrumentation, 2017, 53, 190-203.	2.0	13
31	Primary side control of load voltage for transcutaneous energy transmission. Journal of Artificial Organs, 2016, 19, 14-20.	0.9	1
32	Flow profile identification with multipath transducers. Flow Measurement and Instrumentation, 2016, 52, 148-156.	2.0	15
33	Pinning Effects of Wettability Contrast on Pendant Drops on Chemically Patterned Surfaces. Langmuir, 2016, 32, 11780-11788.	3.5	13
34	Optimization of Neural Network by Genetic Algorithm for Flowrate Determination in Multipath Ultrasonic Gas Flowmeter. IEEE Sensors Journal, 2016, 16, 1158-1167.	4.7	29
35	Effects of reconstructed magnetic field from sparse noisy boundary measurements on localization of active neural source. Medical and Biological Engineering and Computing, 2016, 54, 177-189.	2.8	1
36	A Transcutaneous Energy Transmission System for Artificial Heart Adapting to Changing Impedance. Artificial Organs, 2015, 39, 378-387.	1.9	17

#	ARTICLE	IF	CITATIONS
37	Non-contact parametric estimation and localization of human head for transcranial magnetic stimulation (TMS)., 2013, , .		4
38	Active disturbance rejection control for bearingless permanent-magnet slice motor based on nonlinear phase-locked loop observer. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622096813.	2.1	1
39	The optimization of bellows convolutions in bellows pump for better stress distribution. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622110641.	2.1	3