

# Liang Hu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1816715/publications.pdf>

Version: 2024-02-01

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	Integrated Giant Magnetoresistance Technology for Approachable Weak Biomagnetic Signal Detections. <i>Sensors</i> , 2018, 18, 148.	3.8	33
2	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
3	Similarity Judgment-Based Double-Threshold Method for Time-of-Flight Determination in an Ultrasonic Gas Flowmeter. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018, 67, 24-32.	4.7	30
4	Optimization of Neural Network by Genetic Algorithm for Flowrate Determination in Multipath Ultrasonic Gas Flowmeter. <i>IEEE Sensors Journal</i> , 2016, 16, 1158-1167.	4.7	29
5	A Transcutaneous Energy Transmission System for Artificial Heart Adapting to Changing Impedance. <i>Artificial Organs</i> , 2015, 39, 378-387.	1.9	17
6	Estimation of ultrasonic signal onset for flow measurement. <i>Flow Measurement and Instrumentation</i> , 2017, 55, 1-12.	2.0	17
7	Flow profile identification with multipath transducers. <i>Flow Measurement and Instrumentation</i> , 2016, 52, 148-156.	2.0	15
8	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
9	Pinning Effects of Wettability Contrast on Pendant Drops on Chemically Patterned Surfaces. <i>Langmuir</i> , 2016, 32, 11780-11788.	3.5	13
10	Flow behavior control in immersion lithography. <i>Flow Measurement and Instrumentation</i> , 2017, 53, 190-203.	2.0	13
11	Drop Encapsulated in Bubble: A New Encapsulation Structure. <i>Physical Review Letters</i> , 2018, 120, 054503.	7.8	13
12	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
13	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
14	Combined effects of Coriolis force and temperature-viscosity dependency on hydro-viscous transmission of rotating parallel disks. <i>Tribology International</i> , 2018, 117, 168-173.	5.9	10
15	Flowrate Determination for Arbitrary Multipath Arrangement Based on Generalized Inverse of Matrix. <i>IEEE Sensors Journal</i> , 2017, 17, 3625-3634.	4.7	9
16	Submerged injection of gas into a thin liquid sheet. <i>International Journal of Multiphase Flow</i> , 2019, 110, 118-131.	3.4	7
17	Directional Transport of a Liquid Drop between Parallel–Nonparallel Combinative Plates. <i>Langmuir</i> , 2018, 34, 4484-4493.	3.5	6
18	Jet formation and breakup inside highly deformed bubbles. <i>International Journal of Heat and Mass Transfer</i> , 2020, 163, 120507.	4.8	6

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Coriolis effects on torque transmission of hydro-viscous film in parallel disks with imposed throughflow. <i>Tribology International</i> , 2017, 115, 100-107.	5.9	5
22	Discrimination of Object Curvature Based on a Sparse Tactile Sensor Array. <i>Micromachines</i> , 2020, 11, 583.	2.9	5
23	Non-contact parametric estimation and localization of human head for transcranial magnetic stimulation (TMS). , 2013, , .		4
24	Jet formation during the gas penetration through a thin liquid layer. <i>Physics of Fluids</i> , 2019, 31, 017105.	4.0	4
25	Deformation characteristics of droplet generated by Rayleigh jet breakup. <i>AIP Advances</i> , 2021, 11, .	1.3	4
26	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
27	A method combining measurement tool and numerical simulation for calculating acoustic signals of ultrasonic flowmeter. <i>IEEE Sensors Journal</i> , 2019, , 1-1.	4.7	3
28	An Alignment-Free Sensing Module for Noninvasive Radial Artery Blood Pressure Measurement. <i>Electronics (Switzerland)</i> , 2021, 10, 2896.	3.1	3
29	The optimization of bellows convolutions in bellows pump for better stress distribution. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 0, , 095440622110641.	2.1	3
30	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
31	Timing jitter of monodisperse droplets generated by capillary jet breakup. <i>Physics of Fluids</i> , 2022, 34, 042107.	4.0	2
32	Primary side control of load voltage for transcutaneous energy transmission. <i>Journal of Artificial Organs</i> , 2016, 19, 14-20.	0.9	1
33	Effects of reconstructed magnetic field from sparse noisy boundary measurements on localization of active neural source. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 177-189.	2.8	1
34	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
35	Active disturbance rejection control for bearingless permanent-magnet slice motor based on nonlinear phase-locked loop observer. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 0, , 095440622096813.	2.1	1
36	Fine Texture Detection Based on a Solidâ€“Liquid Composite Flexible Tactile Sensor Array. <i>Micromachines</i> , 2022, 13, 440.	2.9	1

#	ARTICLE	IF	CITATIONS
37	Calculation of field and force of Halbach arrays: Improved magnetic charge method for irregular magnetized magnets. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 11136-11149.	2.1	1
38	Modeling of pneumatic dual reciprocating bellows pump with flexible linkage. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 1085-1096.	2.1	0
39	Morphological characteristics of the drop on the travelling substrate with a sharp stepped configuration. Experimental Thermal and Fluid Science, 2022, 132, 110551.	2.7	0