

# Lung-Jieh Yang

## List of Publications by Year in descending order

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71  
papers

950  
citations

567281

15  
h-index

477307

29  
g-index

71  
all docs

71  
docs citations

71  
times ranked

965  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Numerical Simulation of Biomimetic Structures to Capture Particles in a Microchannel. Fluids, 2022, 7, 32.	1.7	1
2	Design and Development of Unibody Quadcopter Structure Using Optimization and Additive Manufacturing Techniques. Designs, 2022, 6, 8.	2.4	14
3	Application of Monitoring Module Three-in-One Microsensor to Real-Time Microscopic Monitoring of Polarizer Sheet in Roll-to-Roll Process. Processes, 2022, 10, 900.	2.8	7
4	Dual-mode Arduino-based CMOS-MEMS Magnetic Sensor System with Self-calibration for Smart Buildingsâ€™ Energy Monitoring. , 2022, , .		2
5	Foundry Service of CMOS MEMS Processes and the Case Study of the Flow Sensor. Processes, 2022, 10, 1280.	2.8	2
6	CMOS Compatible MEMS Air Velocity Sensor With Improved Sensitivity and Linearity for Human Thermal Comfort Sensing Applications. IEEE Sensors Journal, 2021, 21, 23872-23879.	4.7	7
7	Check-Valve Design in Enhancing Aerodynamic Performance of Flapping Wings. Applied Sciences (Switzerland), 2021, 11, 3416.	2.5	5
8	Soap Film Visualization of a 10 cm-Span Flapping Wing. Fluids, 2021, 6, 361.	1.7	2
9	Dynamical Modeling and Boundary Vibration Control of a Rigid-Flexible Wing System. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2711-2721.	5.8	254
10	Self-powered hybrid flexible nanogenerator and its application in bionic micro aerial vehicles. Nano Energy, 2018, 54, 10-16.	16.0	37
11	Application of Flexible Four-In-One Microsensor to Internal Real-Time Monitoring of Proton Exchange Membrane Fuel Cell. Sensors, 2018, 18, 2269.	3.8	6
12	The Wind Tunnel Test and Unsteady CFD of an Ornithopter Formation. Lecture Notes in Mechanical Engineering, 2017, , 9-16.	0.4	0
13	Practical Flapping Mechanisms for 20 cm-span Micro Air Vehicles. International Journal of Micro Air Vehicles, 2015, 7, 181-202.	1.3	27
14	Acoustic comparison of PET and Latex wings for flapping micro-air-vehicles. , 2015, , .		2
15	Photonic nanojet in non-spherical micro-particles. , 2014, , .		0
16	Dynamic attachment of HepG2 in fractal microchannels. , 2014, , .		0
17	Dynamic cell attachment of HepG2 in a microchannel. , 2013, , .		1
18	Steel-based bionic actuators for flapping microairâ€™vehicles. Micro and Nano Letters, 2013, 8, 686-690.	1.3	3

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19	3D Flapping Trajectory of a Micro-Air-Vehicle and its Application to Unsteady Flow Simulation. International Journal of Advanced Robotic Systems, 2013, 10, 264.	2.1	8
20	Autopilots for Ultra Lightweight Robotic Birds: Automatic Altitude Control and System Integration of a Sub-10 g Weight Flapping-Wing Micro Air Vehicle. IEEE Control Systems, 2012, 32, 35-48.	0.8	24
21	Blood vessels by fractal gelatin. , 2012, , .		0
22	Wing Stiffness on Light Flapping Micro Aerial Vehicles. Journal of Aircraft, 2012, 49, 423-431.	2.4	23
23	Design of a small wankel engine. , 2012, , .		1
24	Chaotic vessels fabricated by fractal gelatin. Micro and Nano Letters, 2012, 7, 705.	1.3	1
25	Fractal grooves applied to passive micro-mixers. , 2011, , .		5
26	Confined fractal patterns in gelatin. , 2011, , .		2
27	A PDMS-based thermo-pneumatic micropump with Parylene inner walls. Microelectronic Engineering, 2011, 88, 1894-1897.	2.4	16
28	Gas permeation in PDMS monitored by on-site pressure sensors. , 2010, , .		1
29	On gas permeation in PDMS. Journal of Micromechanics and Microengineering, 2010, 20, 115033.	2.6	6
30	An electro-active nano-valve array for reusable drug delivery system. , 2010, , .		1
31	Effect of Flexural Stiffness on the Aerodynamic Forces of Flapping MAVs. , 2010, , .		2
32	The arrowed surface ratchets with hydrophobic parylene for droplet transportation. , 2009, , .		1
33	A Micro-Aerial-Vehicle (MAV) with Figure-of-Eight Flapping Induced by Flexible Wing Frames. , 2009, , .		8
34	The micropatterns of glutaraldehyde-crosslinked gelatin as ECM for attachment of tumor cells. , 2009, , .		1
35	Light Flapping Micro Aerial Vehicle Using Electrical-Discharge Wire-Cutting Technique. Journal of Aircraft, 2009, 46, 1866-1874.	2.4	35
36	A cell culture system with better spatial and time resolution. , 2009, , .		1

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37	Comparison of Different Metal Film Thicknesses of COC-Substrate Polymerase Chain Reaction Chips With Single-Side and Double-Side Heaters. , 2009, , .		0
38	Novel Fabrication of Full Parylene-Isolated Neuroprobes. Journal of Bionanoscience, 2009, 3, 58-60.	0.4	2
39	A novel DNA amplification chip of polymer-substrate. , 2008, , .		0
40	A Thermopneumatic Valveless Micropump With PDMS-Based Nozzle/Diffuser Structure for Microfluidic System. , 2008, , .		0
41	Completely Parylene-Coated Neuroprobe for Chronic Recording. , 2007, , .		2
42	Smart Flapping Wings with a PVDF Sensor to Modify Aerodynamic Performance of a Micro UAV. , 2007, , .		0
43	Electrohydrodynamic (EHD) Micro-Boat. , 2007, , .		5
44	SU-8 Buckled-type Microvalves Switched by Surface Tension Forces. , 2007, , .		0
45	Micro-viscometer based on electrowetting on dielectric. Electrochimica Acta, 2007, 52, 2876-2883.	5.2	31
46	A circular microchannel integrated with embedded spiral electrodes used for fluid transportation. Sensors and Actuators A: Physical, 2007, 139, 172-177.	4.1	5
47	Flapping wings with PVDF sensors to modify the aerodynamic forces of a micro aerial vehicle. Sensors and Actuators A: Physical, 2007, 139, 95-103.	4.1	68
48	Novel Designs of Herringbone Chaotic Mixers. , 2006, , .		2
49	Buckled-type valves integrated by parylene micro-tubes. Sensors and Actuators A: Physical, 2006, 130-131, 241-246.	4.1	5
50	Design and fabrication of a diaphragm type thermo-buckled microactuators. , 2006, , .		2
51	A Micromachined Microwave Switch Fabricated by the Complementary Metal Oxide Semiconductor Post-Process of Etching Silicon Dioxide. Japanese Journal of Applied Physics, 2005, 44, 6804-6809.	1.5	28
52	A liquid-based gravity-driven etching-stop technique and its application to wafer level cantilever thickness control of AFM probes. Journal of Micromechanics and Microengineering, 2005, 15, 1049-1054.	2.6	0
53	The micro patterning of glutaraldehyde (GA)-crosslinked gelatin and its application to cell-culture. Lab on A Chip, 2005, 5, 979.	6.0	40
54	The marching velocity of the capillary meniscus in a microchannel. Journal of Micromechanics and Microengineering, 2004, 14, 220-225.	2.6	129

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55	Fabrication of SU-8 embedded microchannels with circular cross-section. International Journal of Machine Tools and Manufacture, 2004, 44, 1109-1114.	13.4	30
56	The micro ion drag pump using indium-tin-oxide (ITO) electrodes to resist aging. Sensors and Actuators A: Physical, 2004, 111, 118-122.	4.1	25
57	Photo-patternable gelatin as protection layers in low-temperature surface micromachinings. Sensors and Actuators A: Physical, 2003, 103, 284-290.	4.1	19
58	CMOS microelectromechanical bandpass filters. Sensors and Actuators A: Physical, 2001, 90, 148-152.	4.1	18
59	Phase synchronization of micro-mirror arrays using elastic linkages. Sensors and Actuators A: Physical, 2001, 95, 55-60.	4.1	3
60	A method using V-grooves to monitor the thickness of silicon membrane with m resolution. Journal of Micromechanics and Microengineering, 1998, 8, 182-187.	2.6	16
61	Photo-patternable gelatin as protection layers in surface micromachinings. , 0, , .		4
62	In-situ monitoring of thickness of quartz membrane during batch chemical etching using a novel micromachined acoustic wave sensor. , 0, , .		0
63	The micro ion drag pump using indium-tin-oxide (ITO) electrodes. , 0, , .		0
64	The patterning of glutaraldehyde-crosslinked gelatin. , 0, , .		0
65	Buckeld-type valves integrated by parylene micro-tubes. , 0, , .		1
66	The testing machine for micro-sensors subjected to different states of pressure and temperature. , 0, , .		1
67	A liquid-based gravity-driven etching-stop technique and its application to wafer level cantilever thickness control of AFM probes. , 0, , .		0
68	The micro aerial vehicle (MAV) with flapping wings. , 0, , .		2
69	Micro Pressure Sensors of 50 $\mu$ m Size Fabricated by a Standard CMOS Foundry and a Novel Post Process. , 0, , .		6
70	Flapping Wings with Micro Sensors and Flexible Framework to Modify the Aerodynamic Forces of a Micro Aerial Vehicle (MAV). , 0, , .		0
71	Fabrication of flapping-wing micromechanism assembly using selective laser melting and aerodynamic performance measures. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 0, , 146442072110354.	1.1	0