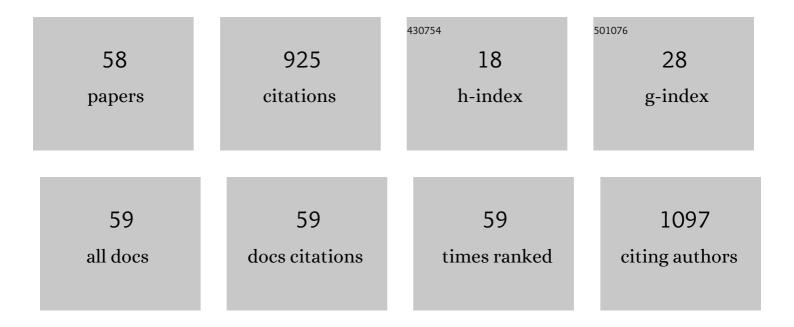
Chia-Yuan Chen

List of Publications by Year in descending order

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<u>CHIA-YIIAN CHEN</u>

#	Article	IF	CITATIONS
1	An aquatic microrobot for microscale flow manipulation. Scientific Reports, 2022, 12, 5041.	1.6	4
2	Microfluidic Applications of Artificial Cilia: Recent Progress, Demonstration, and Future Perspectives. Micromachines, 2022, 13, 735.	1.4	14
3	A non-invasive acoustic-trapping of zebrafish microfluidics. Biomicrofluidics, 2021, 15, 014109.	1.2	4
4	Comprehensive Hydrodynamic Investigation of Zebrafish Tail Beats in a Microfluidic Device with a Shape Memory Alloy. Micromachines, 2021, 12, 68.	1.4	5
5	A smart microfluidic-based fish farm for zebrafish screening. Microfluidics and Nanofluidics, 2021, 25, 1.	1.0	5
6	The evaluation of zebrafish cardiovascular and behavioral functions through microfluidics. Scientific Reports, 2021, 11, 13801.	1.6	8
7	Shape-programmable artificial cilia for microfluidics. IScience, 2021, 24, 103367.	1.9	7
8	A Multi-Inlet Microfluidic Nozzle Head with Shape Memory Alloy-Based Switching for Biomaterial Printing with Precise Flow Control. Biochip Journal, 2020, 14, 340-348.	2.5	4
9	Hydrodynamic benefits of artificial cilia distribution towards photodegradation processes. Sensors and Actuators A: Physical, 2020, 313, 112184.	2.0	4
10	Edible additive effects on zebrafish cardiovascular functionality with hydrodynamic assessment. Scientific Reports, 2020, 10, 16243.	1.6	4
11	Extending Absorption Edge through the Hybrid Resonator-Based Absorber with Wideband and Near-Perfect Absorption in Visible Region. Materials, 2020, 13, 1470.	1.3	24
12	Thrust and Hydrodynamic Efficiency of the Bundled Flagella. Micromachines, 2019, 10, 449.	1.4	8
13	Enhanced Visible-Responsive Photodegradation Through SnFe2O4 Nanoparticles with Modified Magnetic Artificial Cilia Actuation. , 2019, , .		Ο
14	Microfluidic retention of progressively motile zebrafish sperms. Lab on A Chip, 2019, 19, 4033-4042.	3.1	16
15	Microfluidic Transportation Control of Larval Zebrafish through Optomotor Regulations under a Pressure-Driven Flow. Micromachines, 2019, 10, 880.	1.4	9
16	On the improvement of visible-responsive photodegradation through artificial cilia. Sensors and Actuators A: Physical, 2019, 285, 234-240.	2.0	9
17	Sperm activation through orbital and self-axis revolutions using an artificial cilia embedded serpentine microfluidic platform. Scientific Reports, 2018, 8, 4605.	1.6	18
18	A noninvasive light driven technique integrated microfluidics for zebrafish larvae transportation. Biomicrofluidics, 2018, 12, 021101.	1.2	14

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19	Computational Fluid Dynamics Modeling of the Human Pulmonary Arteries with Experimental Validation. Annals of Biomedical Engineering, 2018, 46, 1309-1324.	1.3	20
20	A Shape Memory Alloy-Based Miniaturized Actuator for Catheter Interventions. Cardiovascular Engineering and Technology, 2018, 9, 405-413.	0.7	7
21	Hydrodynamic Investigation of a Wafer Rinse Process Through Numerical Modeling and Flow Visualization Methods. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	0.8	1
22	Zebrafish sperm activation through an artificial cilia embedded serpentine microfluidic platform. , 2018, , .		1
23	An artificial cilia based micromixer for superior zebrafish sperm activation. , 2017, , .		Ο
24	Hydrodynamically efficient micropropulsion through a new artificial cilia beating concept. Microsystem Technologies, 2017, 23, 5893-5902.	1.2	9
25	An artificial cilia-based micromixer towards the activation of zebrafish sperms. Sensors and Actuators B: Chemical, 2017, 244, 541-548.	4.0	15
26	Inherent formation of porous p-type Si nanowires using palladium-assisted chemical etching. Applied Surface Science, 2017, 392, 498-502.	3.1	21
27	An Integrated Artificial Cilia Based Microfluidic Device for Micropumping and Micromixing Applications. Micromachines, 2017, 8, 260.	1.4	15
28	Endoleak Assessment Using Computational Fluid Dynamics and Image Processing Methods in Stented Abdominal Aortic Aneurysm Models. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-9.	0.7	4
29	Manipulation of zebrafish's orientation using artificial cilia in a microchannel with actively adaptive wall design. Scientific Reports, 2016, 6, 36385.	1.6	18
30	Characterization of zebrafish larvae suction feeding flow using \hat{I} /4PIV and optical coherence tomography. Experiments in Fluids, 2016, 57, 1.	1.1	21
31	Hydrodynamic influences of artificial cilia beating behaviors on micromixing. Chemical Engineering and Processing: Process Intensification, 2016, 99, 33-40.	1.8	23
32	Axial orientation control of zebrafish larvae using artificial cilia. Microfluidics and Nanofluidics, 2016, 20, 1.	1.0	18
33	Efficient metamaterial-based plasmonic sensors for micromixing evaluation. Journal Physics D: Applied Physics, 2016, 49, 035501.	1.3	2
34	Fabrication of PDMS passive micromixer by lost-wax casting. International Journal of Precision Engineering and Manufacturing, 2015, 16, 2033-2039.	1.1	29
35	Experimental and computational investigation of the patient-specific abdominal aortic aneurysm pressure field. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 981-992.	0.9	27
36	Orientation control of zebrafish embryos using artificial cilia in a 3D flow-through microchannel. ,		3

2015, , .

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37	Microscale flow propulsion through bioinspired and magnetically actuated artificial cilia. Biomicrofluidics, 2015, 9, 034105.	1.2	20
38	Efficient micromixing through artificial cilia actuation with fish-schooling configuration. Chemical Engineering Journal, 2015, 259, 391-396.	6.6	19
39	Hemodynamic Flow Visualization of Early Embryonic Great Vessels Using μPIV. Methods in Molecular Biology, 2015, 1189, 17-30.	0.4	2
40	Effects of Intraluminal Thrombus on Patient-Specific Abdominal Aortic Aneurysm Hemodynamics via Stereoscopic Particle Image Velocity and Computational Fluid Dynamics Modeling. Journal of Biomechanical Engineering, 2014, 136, 031001.	0.6	33
41	Simultaneous real-time quantification of blood flow and vascular growth in the chick embryo using optical coherence tomography. , 2014, , .		3
42	Microfluidics Expands the Zebrafish Potentials in Pharmaceutically Relevant Screening. Advanced Healthcare Materials, 2014, 3, 940-945.	3.9	27
43	Real-Time Remote Control of Artificial Cilia Actuation Using Fingertip Drawing for Efficient Micromixing. Journal of the Association for Laboratory Automation, 2014, 19, 492-497.	2.8	8
44	Inducing 3D vortical flow patterns with 2D asymmetric actuation of artificial cilia for high-performance active micromixing. Experiments in Fluids, 2014, 55, 1.	1.1	24
45	Magnetically actuated artificial cilia for optimum mixing performance in microfluidics. Lab on A Chip, 2013, 13, 2834.	3.1	83
46	Time-resolved OCT-μPIV: a new microscopic PIV technique for noninvasive depth-resolved pulsatile flow profile acquisition. Experiments in Fluids, 2013, 54, 1.	1.1	13
47	High-speed three-dimensional characterization of fluid flows induced by micro-objects in deep microchannels. Biochip Journal, 2013, 7, 95-103.	2.5	5
48	Characterization of neonatal aortic cannula jet flow regimes for improved cardiopulmonary bypass. Journal of Biomechanics, 2013, 46, 362-372.	0.9	25
49	Fluid dynamics analysis of magnetically actuated ciliated nano/micro structures for flow mixing and propulsion applications. , 2013, , .		1
50	Influences of textured substrates on the heart rate of developing zebrafish embryos. Nanotechnology, 2013, 24, 265101.	1.3	8
51	Title is missing!. Journal of Medical and Biological Engineering, 2013, , .	1.0	2
52	Device Specific Aortic Outflow Cannula Jets Studied Using 2D PIV and High-Performance 3D CFD Simulation. , 2012, , .		1
53	Analysis of early embryonic great-vessel microcirculation in zebrafish using high-speed confocal μPIV. Biorheology, 2011, 48, 305-321.	1.2	28
54	Hemodynamics of the Hepatic Venous Three-Vessel Confluences Using Particle Image Velocimetry. Annals of Biomedical Engineering, 2011, 39, 2398-2416.	1.3	13

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#	Article	IF	CITATIONS
55	Cellular-level near-wall unsteadiness of high-hematocrit erythrocyte flow using confocal μPIV. Experiments in Fluids, 2011, 50, 887-904.	1.1	33
56	Interaction between <i>alk1</i> and blood flow in the development of arteriovenous malformations. Development (Cambridge), 2011, 138, 1573-1582.	1.2	184
57	In Vivo Hemodynamic Performance of Wild-Type vs. Mutant Zebrafish Embryos Using High-Speed Confocal Micro-PIV. , 2010, , .		1
58	Separation of Amino Acids by Aqueous Two-Phase Electrophoresis on the Micro-Pillar Chips. , 2006, , .		0