

# Say Hwa Tan

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50  
papers

2,186  
citations

26  
h-index

46  
g-index

53  
ext. papers

2,531  
ext. citations

4.4  
avg, IF

4.99  
L-index

#	Paper	IF	Citations
50	Oxygen plasma treatment for reducing hydrophobicity of a sealed polydimethylsiloxane microchannel. <i>Biomicrofluidics</i> , <b>2010</b> , 4, 32204	3.2	269
49	Active droplet sorting in microfluidics: a review. <i>Lab on A Chip</i> , <b>2017</b> , 17, 751-771	7.2	177
48	Active droplet generation in microfluidics. <i>Lab on A Chip</i> , <b>2016</b> , 16, 35-58	7.2	159
47	Temperature dependence of interfacial properties and viscosity of nanofluids for droplet-based microfluidics. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 085502	3	115
46	Magnetowetting and sliding motion of a sessile ferrofluid droplet in the presence of a permanent magnet. <i>Langmuir</i> , <b>2010</b> , 26, 12553-9	4	98
45	Formation and manipulation of ferrofluid droplets at a microfluidic T-junction. <i>Journal of Micromechanics and Microengineering</i> , <b>2010</b> , 20, 045004	2	93
44	Microfluidic flow-focusing in ac electric fields. <i>Lab on A Chip</i> , <b>2014</b> , 14, 1099-106	7.2	83
43	Thermally mediated droplet formation in microchannels. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 084102	3.4	82
42	Numerical and experimental investigations of the formation process of ferrofluid droplets. <i>Microfluidics and Nanofluidics</i> , <b>2011</b> , 11, 177-187	2.8	73
41	Modelling and optimization of micro optofluidic lenses. <i>Lab on A Chip</i> , <b>2009</b> , 9, 1178-84	7.2	68
40	Tunable particle separation in a hybrid dielectrophoresis (DEP)- inertial microfluidic device. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 267, 14-25	8.5	64
39	A novel viscoelastic-based ferrofluid for continuous sheathless microfluidic separation of nonmagnetic microparticles. <i>Lab on A Chip</i> , <b>2016</b> , 16, 3947-3956	7.2	58
38	A versatile PDMS submicrobead/graphene oxide nanocomposite ink for the direct ink writing of wearable micron-scale tactile sensors. <i>Applied Materials Today</i> , <b>2019</b> , 16, 482-492	6.6	56
37	Thermally mediated control of liquid microdroplets at a bifurcation. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 065503	3	53
36	Thermally controlled droplet formation in flow focusing geometry: formation regimes and effect of nanoparticle suspension. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 165501	3	50
35	Microdroplet formation of water and nanofluids in heat-induced microfluidic T-junction. <i>Microfluidics and Nanofluidics</i> , <b>2009</b> , 6, 253-259	2.8	48
34	AC electric field induced droplet deformation in a microfluidic T-junction. <i>Lab on A Chip</i> , <b>2016</b> , 16, 2982-6	7.2	47

33	Generation and manipulation of monodispersed ferrofluid emulsions: the effect of a uniform magnetic field in flow-focusing and T-junction configurations. <i>Physical Review E</i> , <b>2011</b> , 84, 036317	2.4	45
32	Microfluidic Formation of Coculture Tumor Spheroids with Stromal Cells As a Novel 3D Tumor Model for Drug Testing. <i>ACS Biomaterials Science and Engineering</i> , <b>2018</b> , 4, 4425-4433	5.5	40
31	Negative Pressure Induced Droplet Generation in a Microfluidic Flow-Focusing Device. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 4387-4391	7.8	39
30	The microfluidic jukebox. <i>Scientific Reports</i> , <b>2014</b> , 4, 4787	4.9	39
29	Acoustofluidic control of bubble size in microfluidic flow-focusing configuration. <i>Lab on A Chip</i> , <b>2015</b> , 15, 996-9	7.2	31
28	On-Chip Microparticle and Cell Washing Using Coflow of Viscoelastic Fluid and Newtonian Fluid. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 9574-9582	7.8	30
27	Self-Aligned Interdigitated Transducers for Acoustofluidics. <i>Micromachines</i> , <b>2016</b> , 7,	3.3	30
26	Breakup length of AC electrified jets in a microfluidic flow-focusing junction. <i>Microfluidics and Nanofluidics</i> , <b>2015</b> , 19, 787-794	2.8	27
25	High-Throughput Separation of White Blood Cells From Whole Blood Using Inertial Microfluidics. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2017</b> , 11, 1422-1430	5.1	27
24	A tuneable micro-optofluidic biconvex lens with mathematically predictable focal length. <i>Microfluidics and Nanofluidics</i> , <b>2010</b> , 9, 889-896	2.8	25
23	Sheathless Dean-flow-coupled elasto-inertial particle focusing and separation in viscoelastic fluid. <i>RSC Advances</i> , <b>2017</b> , 7, 3461-3469	3.7	24
22	Automated droplet measurement (ADM): an enhanced video processing software for rapid droplet measurements. <i>Microfluidics and Nanofluidics</i> , <b>2016</b> , 20, 1	2.8	24
21	Opto-acousto-fluidic microscopy for three-dimensional label-free detection of droplets and cells in microchannels. <i>Lab on A Chip</i> , <b>2018</b> , 18, 1292-1297	7.2	23
20	A Perspective on the Rise of Optofluidics and the Future. <i>Micromachines</i> , <b>2017</b> , 8, 152	3.3	22
19	Tunable micro-optofluidic prism based on liquid-core liquid-cladding configuration. <i>Optics Letters</i> , <b>2010</b> , 35, 327-9	3	21
18	A portable, hand-powered microfluidic device for sorting of biological particles. <i>Microfluidics and Nanofluidics</i> , <b>2018</b> , 22, 1	2.8	20
17	AC electrified jets in a flow-focusing device: Jet length scaling. <i>Biomicrofluidics</i> , <b>2016</b> , 10, 043504	3.2	15
16	Nanoscale silicon surface-assisted laser desorption/ionization mass spectrometry: environment stability and activation by simple vacuum oven desiccation. <i>Analyst, The</i> , <b>2016</b> , 141, 4973-81	5	14

15	A Microfluidic Method for Investigating Ion-Specific Bubble Coalescence in Salt Solutions. <i>Langmuir</i> , <b>2016</b> , 32, 11520-11524	4	13
14	A micro optofluidic lens with short focal length. <i>Journal of Micromechanics and Microengineering</i> , <b>2009</b> , 19, 085012	2	12
13	Ensembles of Photonic Beads: Optical Properties and Enhanced Light-Matter Interactions. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 1901537	8.1	11
12	Influence of Interfacial Gas Enrichment on Controlled Coalescence of Oil Droplets in Water in Microfluidics. <i>Langmuir</i> , <b>2019</b> , 35, 3615-3623	4	11
11	Toward the commercialization of optofluidics. <i>Microfluidics and Nanofluidics</i> , <b>2017</b> , 21, 1	2.8	8
10	On-Demand Droplet Merging with an AC Electric Field for Multiple-Volume Droplet Generation. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 1147-1153	7.8	8
9	Pressure-Driven Filling of Closed-End Microchannel: Realization of Comb-Shaped Transducers for Acoustofluidics. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	8
8	Development of a Microfluidic Droplet-Based Microbioreactor for Microbial Cultivation. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 3630-3637	5.5	5
7	Controllable droplet generation at a microfluidic T-junction using AC electric field. <i>Microfluidics and Nanofluidics</i> , <b>2020</b> , 24, 1	2.8	4
6	Design optimization for an SOI MOEMS accelerometer. <i>Microsystem Technologies</i> , <b>2018</b> , 24, 465-472	1.7	4
5	Silicon etching using only Oxygen at high temperature: An alternative approach to Si micro-machining on 150 mm Si wafers. <i>Scientific Reports</i> , <b>2015</b> , 5, 17811	4.9	4
4	Pressure-driven filling of liquid metal in closed-end microchannels. <i>Physical Review E</i> , <b>2018</b> , 98,	2.4	4
3	An optical MEMS accelerometer fabricated using double-sided deep reactive ion etching on silicon-on-insulator wafer. <i>Journal of Micromechanics and Microengineering</i> , <b>2017</b> , 27, 067001	2	3
2	Study of concentric, eccentric and split type magnetic membrane micro-mixers. <i>Sensing and Bio-Sensing Research</i> , <b>2018</b> , 19, 14-23	3.3	1
1	A stretchable conductive Polypyrrole Polydimethylsiloxane device fabricated by simple soft lithography and oxygen plasma treatment. <i>Biomedical Microdevices</i> , <b>2018</b> , 20, 30	3.7	1