Say Hwa Tan

List of Publications by Year
in descending order

51 papers	2,841 citations	172207 29 h-index	189595 50 g-index
53 all docs	53 docs citations	53 times ranked	3395 citing authors

#	Article	IF	Citations
1	Oxygen plasma treatment for reducing hydrophobicity of a sealed polydimethylsiloxane microchannel. Biomicrofluidics, 2010, 4, 32204.	1.2	337
2	Active droplet sorting in microfluidics: a review. Lab on A Chip, 2017, 17, 751-771.	3.1	250
3	Active droplet generation in microfluidics. Lab on A Chip, 2016, 16, 35-58.	3.1	199
4	Temperature dependence of interfacial properties and viscosity of nanofluids for droplet-based microfluidics. Journal Physics D: Applied Physics, 2008, 41, 085502.	1.3	143
5	Magnetowetting and Sliding Motion of a Sessile Ferrofluid Droplet in the Presence of a Permanent Magnet. Langmuir, 2010, 26, 12553-12559.	1.6	116
6	Formation and manipulation of ferrofluid droplets at a microfluidicT-junction. Journal of Micromechanics and Microengineering, 2010, 20, 045004.	1.5	113
7	A versatile PDMS submicrobead/graphene oxide nanocomposite ink for the direct ink writing of wearable micron-scale tactile sensors. Applied Materials Today, 2019, 16, 482-492.	2.3	106
8	Tunable particle separation in a hybrid dielectrophoresis (DEP)- inertial microfluidic device. Sensors and Actuators B: Chemical, 2018, 267, 14-25.	4.0	99
9	Thermally mediated droplet formation in microchannels. Applied Physics Letters, 2007, 91, .	1.5	98
10	Microfluidic flow-focusing in ac electric fields. Lab on A Chip, 2014, 14, 1099.	3.1	96
11	Numerical and experimental investigations of the formation process of ferrofluid droplets. Microfluidics and Nanofluidics, 2011, 11, 177-187.	1.0	86
12	Modelling and optimization of micro optofluidic lenses. Lab on A Chip, 2009, 9, 1178.	3.1	75
13	A novel viscoelastic-based ferrofluid for continuous sheathless microfluidic separation of nonmagnetic microparticles. Lab on A Chip, 2016, 16, 3947-3956.	3.1	73
14	Thermally mediated control of liquid microdroplets at a bifurcation. Journal Physics D: Applied Physics, 2009, 42, 065503.	1.3	71
15	Thermally controlled droplet formation in flow focusing geometry: formation regimes and effect of nanoparticle suspension. Journal Physics D: Applied Physics, 2008, 41, 165501.	1.3	69
16	Microdroplet formation of water and nanofluids in heat-induced microfluidic T-junction. Microfluidics and Nanofluidics, 2009, 6, 253-259.	1.0	64
17	Microfluidic Formation of Coculture Tumor Spheroids with Stromal Cells As a Novel 3D Tumor Model for Drug Testing. ACS Biomaterials Science and Engineering, 2018, 4, 4425-4433.	2.6	64
18	AC electric field induced droplet deformation in a microfluidic T-junction. Lab on A Chip, 2016, 16, 2982-2986.	3.1	56

#	Article	IF	Citations
19	Generation and manipulation of monodispersed ferrofluid emulsions: The effect of a uniform magnetic field in flow-focusing and T-junction configurations. Physical Review E, 2011, 84, 036317.	0.8	49
20	Negative Pressure Induced Droplet Generation in a Microfluidic Flow-Focusing Device. Analytical Chemistry, 2017, 89, 4387-4391.	3.2	48
21	High-Throughput Separation of White Blood Cells From Whole Blood Using Inertial Microfluidics. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 1422-1430.	2.7	47
22	The Microfluidic Jukebox. Scientific Reports, 2014, 4, 4787.	1.6	41
23	On-Chip Microparticle and Cell Washing Using Coflow of Viscoelastic Fluid and Newtonian Fluid. Analytical Chemistry, 2017, 89, 9574-9582.	3.2	37
24	Automated droplet measurement (ADM): an enhanced video processing software for rapid droplet measurements. Microfluidics and Nanofluidics, 2016, 20, 1.	1.0	35
25	Sheathless Dean-flow-coupled elasto-inertial particle focusing and separation in viscoelastic fluid. RSC Advances, 2017, 7, 3461-3469.	1.7	35
26	Opto-acousto-fluidic microscopy for three-dimensional label-free detection of droplets and cells in microchannels. Lab on A Chip, 2018, 18, 1292-1297.	3.1	35
27	A Perspective on the Rise of Optofluidics and the Future. Micromachines, 2017, 8, 152.	1.4	34
28	Acoustofluidic control of bubble size in microfluidic flow-focusing configuration. Lab on A Chip, 2015, 15, 996-999.	3.1	33
29	Self-Aligned Interdigitated Transducers for Acoustofluidics. Micromachines, 2016, 7, 216.	1.4	32
30	Breakup length of AC electrified jets in a microfluidic flow-focusing junction. Microfluidics and Nanofluidics, 2015, 19, 787-794.	1.0	29
31	A tuneable micro-optofluidic biconvex lens with mathematically predictable focal length. Microfluidics and Nanofluidics, 2010, 9, 889-896.	1.0	28
32	A portable, hand-powered microfluidic device for sorting of biological particles. Microfluidics and Nanofluidics, 2018, 22, 1.	1.0	28
33	Tunable micro-optofluidic prism based on liquid-core liquid-cladding configuration. Optics Letters, 2010, 35, 327.	1.7	25
34	AC electrified jets in a flow-focusing device: Jet length scaling. Biomicrofluidics, 2016, 10, 043504.	1.2	20
35	On-Demand Droplet Merging with an AC Electric Field for Multiple-Volume Droplet Generation. Analytical Chemistry, 2020, 92, 1147-1153.	3.2	19
36	A Microfluidic Method for Investigating Ion-Specific Bubble Coalescence in Salt Solutions. Langmuir, 2016, 32, 11520-11524.	1.6	17

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37	Ensembles of Photonic Beads: Optical Properties and Enhanced Lightâ€"Matter Interactions. Advanced Optical Materials, 2020, 8, 1901537.	3.6	16
38	Influence of Interfacial Gas Enrichment on Controlled Coalescence of Oil Droplets in Water in Microfluidics. Langmuir, 2019, 35, 3615-3623.	1.6	15
39	Nanoscale silicon surface-assisted laser desorption/ionization mass spectrometry: environment stability and activation by simple vacuum oven desiccation. Analyst, The, 2016, 141, 4973-4981.	1.7	14
40	Development of a Microfluidic Droplet-Based Microbioreactor for Microbial Cultivation. ACS Biomaterials Science and Engineering, 2020, 6, 3630-3637.	2.6	14
41	A micro optofluidic lens with short focal length. Journal of Micromechanics and Microengineering, 2009, 19, 085012.	1.5	13
42	Pressure-Driven Filling of Closed-End Microchannel: Realization of Comb-Shaped Transducers for Acoustofluidics. Physical Review Applied, 2018, 10, .	1.5	13
43	Toward the commercialization of optofluidics. Microfluidics and Nanofluidics, 2017, 21, 1.	1.0	12
44	Controllable droplet generation at a microfluidic T-junction using AC electric field. Microfluidics and Nanofluidics, 2020, 24, 1.	1.0	9
45	Silicon etching using only Oxygen at high temperature: An alternative approach to Si micro-machining on 150â€‰mm Si wafers. Scientific Reports, 2016, 5, 17811.	1.6	6
46	A stretchable conductive Polypyrrole Polydimethylsiloxane device fabricated by simple soft lithography and oxygen plasma treatment. Biomedical Microdevices, 2018, 20, 30.	1.4	6
47	An optical MEMS accelerometer fabricated using double-sided deep reactive ion etching on silicon-on-insulator wafer. Journal of Micromechanics and Microengineering, 2017, 27, 067001.	1.5	5
48	Design optimization for an SOI MOEMS accelerometer. Microsystem Technologies, 2018, 24, 465-472.	1.2	5
49	Pressure-driven filling of liquid metal in closed-end microchannels. Physical Review E, 2018, 98, .	0.8	4
50	Study of concentric, eccentric and split type magnetic membrane micro-mixers. Sensing and Bio-Sensing Research, 2018, 19, 14-23.	2.2	2
51	Editorial for the Special Issue on the Insights and Advancements in Microfluidics. Micromachines, 2017, 8, 254.	1.4	0