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	On-Demand Droplet Merging with an AC Electric Field for Multiple-Volume Droplet Generation. Analytical Chemistry, 2020, 92, 1147-1153.	3.2	19
2	Development of a Microfluidic Droplet-Based Microbioreactor for Microbial Cultivation. ACS Biomaterials Science and Engineering, 2020, 6, 3630-3637.	2.6	14
3	Controllable droplet generation at a microfluidic T-junction using AC electric field. Microfluidics and Nanofluidics, 2020, 24, 1.	1.0	9
4	Ensembles of Photonic Beads: Optical Properties and Enhanced Lightâ€"Matter Interactions. Advanced Optical Materials, 2020, 8, 1901537.	3.6	16
5	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
6	Influence of Interfacial Gas Enrichment on Controlled Coalescence of Oil Droplets in Water in Microfluidics. Langmuir, 2019, 35, 3615-3623.	1.6	15
7	Study of concentric, eccentric and split type magnetic membrane micro-mixers. Sensing and Bio-Sensing Research, 2018, 19, 14-23.	2.2	2
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	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
10	A stretchable conductive Polypyrrole Polydimethylsiloxane device fabricated by simple soft lithography and oxygen plasma treatment. Biomedical Microdevices, 2018, 20, 30.	1.4	6
11	Design optimization for an SOI MOEMS accelerometer. Microsystem Technologies, 2018, 24, 465-472.	1.2	5
12	A portable, hand-powered microfluidic device for sorting of biological particles. Microfluidics and Nanofluidics, 2018, 22, 1.	1.0	28
13	Pressure-Driven Filling of Closed-End Microchannel: Realization of Comb-Shaped Transducers for Acoustofluidics. Physical Review Applied, 2018, 10, .	1.5	13
14	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
15	Pressure-driven filling of liquid metal in closed-end microchannels. Physical Review E, 2018, 98, .	0.8	4
16	Sheathless Dean-flow-coupled elasto-inertial particle focusing and separation in viscoelastic fluid. RSC Advances, 2017, 7, 3461-3469.	1.7	35
17	Negative Pressure Induced Droplet Generation in a Microfluidic Flow-Focusing Device. Analytical Chemistry, 2017, 89, 4387-4391.	3.2	48
18	Active droplet sorting in microfluidics: a review. Lab on A Chip, 2017, 17, 751-771.	3.1	250

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19	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
20	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
21	Toward the commercialization of optofluidics. Microfluidics and Nanofluidics, 2017, 21, 1.	1.0	12
22	On-Chip Microparticle and Cell Washing Using Coflow of Viscoelastic Fluid and Newtonian Fluid. Analytical Chemistry, 2017, 89, 9574-9582.	3.2	37
23	A Perspective on the Rise of Optofluidics and the Future. Micromachines, 2017, 8, 152.	1.4	34
24	Editorial for the Special Issue on the Insights and Advancements in Microfluidics. Micromachines, 2017, 8, 254.	1.4	0
25	Self-Aligned Interdigitated Transducers for Acoustofluidics. Micromachines, 2016, 7, 216.	1.4	32
26	AC electrified jets in a flow-focusing device: Jet length scaling. Biomicrofluidics, 2016, 10, 043504.	1.2	20
27	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
28	Automated droplet measurement (ADM): an enhanced video processing software for rapid droplet measurements. Microfluidics and Nanofluidics, 2016, 20, 1.	1.0	35
29	AC electric field induced droplet deformation in a microfluidic T-junction. Lab on A Chip, 2016, 16, 2982-2986.	3.1	56
30	A novel viscoelastic-based ferrofluid for continuous sheathless microfluidic separation of nonmagnetic microparticles. Lab on A Chip, 2016, 16, 3947-3956.	3.1	73
31	A Microfluidic Method for Investigating Ion-Specific Bubble Coalescence in Salt Solutions. Langmuir, 2016, 32, 11520-11524.	1.6	17
32	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
33	Active droplet generation in microfluidics. Lab on A Chip, 2016, 16, 35-58.	3.1	199
34	Breakup length of AC electrified jets in a microfluidic flow-focusing junction. Microfluidics and Nanofluidics, 2015, 19, 787-794.	1.0	29
35	Acoustofluidic control of bubble size in microfluidic flow-focusing configuration. Lab on A Chip, 2015, 15, 996-999.	3.1	33
36	Microfluidic flow-focusing in ac electric fields. Lab on A Chip, 2014, 14, 1099.	3.1	96

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37	The Microfluidic Jukebox. Scientific Reports, 2014, 4, 4787.	1.6	41
38	Numerical and experimental investigations of the formation process of ferrofluid droplets. Microfluidics and Nanofluidics, 2011, 11, 177-187.	1.0	86
39	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
40	A tuneable micro-optofluidic biconvex lens with mathematically predictable focal length. Microfluidics and Nanofluidics, 2010, 9, 889-896.	1.0	28
41	Tunable micro-optofluidic prism based on liquid-core liquid-cladding configuration. Optics Letters, 2010, 35, 327.	1.7	25
42	Formation and manipulation of ferrofluid droplets at a microfluidicT-junction. Journal of Micromechanics and Microengineering, 2010, 20, 045004.	1.5	113
43	Oxygen plasma treatment for reducing hydrophobicity of a sealed polydimethylsiloxane microchannel. Biomicrofluidics, 2010, 4, 32204.	1.2	337
44	Magnetowetting and Sliding Motion of a Sessile Ferrofluid Droplet in the Presence of a Permanent Magnet. Langmuir, 2010, 26, 12553-12559.	1.6	116
45	Thermally mediated control of liquid microdroplets at a bifurcation. Journal Physics D: Applied Physics, 2009, 42, 065503.	1.3	71
46	A micro optofluidic lens with short focal length. Journal of Micromechanics and Microengineering, 2009, 19, 085012.	1.5	13
47	Microdroplet formation of water and nanofluids in heat-induced microfluidic T-junction. Microfluidics and Nanofluidics, 2009, 6, 253-259.	1.0	64
48	Modelling and optimization of micro optofluidic lenses. Lab on A Chip, 2009, 9, 1178.	3.1	75
49	Temperature dependence of interfacial properties and viscosity of nanofluids for droplet-based microfluidics. Journal Physics D: Applied Physics, 2008, 41, 085502.	1.3	143
50	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
51	Thermally mediated droplet formation in microchannels. Applied Physics Letters, 2007, 91, .	1.5	98