Scott S H Tsai

List of Publications by Citations

42 papers	971 citations	16 h-index	30 g-index
51 ext. papers	1,174 ext. citations	5.6 avg, IF	4.73 L-index

#	Paper	IF	Citations
42	Dripping and jetting in microfluidic multiphase flows applied to particle and fiber synthesis. *Journal Physics D: Applied Physics*, **2013**, 46,	3	236
41	Detection of trace arsenic in drinking water: challenges and opportunities for microfluidics. *Environmental Science: Water Research and Technology*, **2015**, 1, 426-447	4.2	90
40	Water-in-Water Droplets by Passive Microfluidic Flow Focusing. *Analytical Chemistry*, **2016**, 88, 3982-9	7.8	77
39	Microfluidic generation of aqueous two-phase system (ATPS) droplets by controlled pulsating inlet pressures. *Lab on A Chip*, **2015**, 15, 2437-44	7.2	73
38	One-step two-dimensional microfluidics-based synthesis of three-dimensional particles. *Advanced Materials*, **2014**, 26, 1393-8	24	47
37	Conformal coating of particles in microchannels by magnetic forcing. *Applied Physics Letters*, **2011**, 99, 153509	3.4	42
36	Microfluidic ultralow interfacial tensiometry with magnetic particles. *Lab on A Chip*, **2013**, 13, 119-25	7.2	32
35	Microfluidic immunomagnetic multi-target sorting--a model for controlling deflection of paramagnetic beads. *Lab on A Chip*, **2011**, 11, 2577-82	7.2	31
34	Shrinking, growing, and bursting: microfluidic equilibrium control of water-in-water droplets. *Lab on A Chip*, **2016**, 16, 2601-8	7.2	27
33	Microfluidic Generation of All-Aqueous Double and Triple Emulsions. *Small*, **2020**, 16, e1906565	11	26
32	Microfluidic diamagnetic water-in-water droplets: a biocompatible cell encapsulation and manipulation platform. *Lab on A Chip*, **2018**, 18, 3361-3370	7.2	25
31	Stable microfluidic flow focusing using hydrostatics. *Biomicrofluidics*, **2017**, 11, 034104	3.2	20
30	Simultaneous acoustic and photoacoustic microfluidic flow cytometry for label-free analysis. *Scientific Reports*, **2019**, 9, 1585	4.9	18
29	Controlled Electrospray Generation of Nonspherical Alginate Microparticles. *ChemPhysChem*, **2018**, 19, 2113-2118	3.2	17
28	Microneedle-assisted microfluidic flow focusing for versatile and high throughput water-in-water droplet generation. *Journal of Colloid and Interface Science*, **2019**, 553, 382-389	9.3	16
27	Microfluidic conformal coating of non-spherical magnetic particles. *Biomicrofluidics*, **2014**, 8, 052103	3.2	16
26	Interfacial deflection and jetting of a paramagnetic particle-laden fluid: theory and experiment. *Soft Matter*, **2013**, 9, 8600	3.6	15

25	Microfluidic Generation of Particle-Stabilized Water-in-Water Emulsions. *Langmuir*, **2018**, 34, 213-218	4	14
24	Sizing biological cells using a microfluidic acoustic flow cytometer. *Scientific Reports*, **2019**, 9, 4775	4.9	13
23	Microfluidic magnetic self-assembly at liquid-liquid interfaces. *Soft Matter*, **2016**, 12, 2668-75	3.6	13
22	Rotary polymer micromachines: in situ fabrication of microgear components in microchannels. *Microfluidics and Nanofluidics*, **2015**, 19, 67-74	2.8	13
21	Floating and sinking of self-assembled spheres on liquid-liquid interfaces: Rafts versus stacks. *Physics of Fluids*, **2015**, 27, 072102	4.4	11
20	Electric field induced sheeting and breakup of dielectric liquid jets. *Physics of Fluids*, **2014**, 26, 012103	4.4	11
19	Honey, I shrunk the bubbles: microfluidic vacuum shrinkage of lipid-stabilized microbubbles. *Soft Matter*, **2017**, 13, 4011-4016	3.6	10
18	Dancing with the Cells: Acoustic Microflows Generated by Oscillating Cells. *Small*, **2020**, 16, e1903788	11	10
17	Diamagnetic droplet microfluidics applied to single-cell sorting. *AIP Advances*, **2019**, 9, 075106	1.5	8
16	Controlled generation of spiky microparticles by ionic cross-linking within an aqueous two-phase system. *Soft Matter*, **2019**, 15, 3301-3306	3.6	7
15	Shrinking microbubbles with microfluidics: mathematical modelling to control microbubble sizes. *Soft Matter*, **2017**, 13, 8796-8806	3.6	7
14	Magnetic polyelectrolyte microcapsules via water-in-water droplet microfluidics. *Lab on A Chip*, **2020**, 20, 2851-2860	7.2	6
13	Inertial particle separation in helical channels: A calibrated numerical analysis. *AIP Advances*, **2020**, 10, 125101	1.5	6
12	Microfluidic Generation of Monodisperse Nanobubbles by Selective Gas Dissolution. *Small*, **2021**, 17, e2100345	11	6
11	Classification of biological cells using a sound wave based flow cytometer **2016**,		6
10	Expansion-mediated breakup of bubbles and droplets in microfluidics. *Physical Review Fluids*, **2020**, 5,	2.8	5
9	Evaporation-Driven Water-in-Water Droplet Formation. *Langmuir*, **2020**, 36, 14333-14341	4	4
8	Biomedical nanobubbles and opportunities for microfluidics.. *RSC Advances*, **2021**, 11, 32750-32774	3.7	3

7	Dosage-controlled intracellular delivery mediated by acoustofluidics for lab on a chip applications. *Lab on A Chip*, **2021**, 21, 1788-1797	7.2	3
6	A novel abrasive water jet machining technique for rapid fabrication of three-dimensional microfluidic components. *Biomicrofluidics*, **2020**, 14, 044103	3.2	2
5	Ultrasound and Microbubbles for Targeted Drug Delivery to the Lung Endothelium in ARDS: Cellular Mechanisms and Therapeutic Opportunities. *Biomedicines*, **2021**, 9,	4.8	2
4	Magnetic water-in-water droplet microfluidics: Systematic experiments and scaling mathematical analysis. *Biomicrofluidics*, **2020**, 14, 024101	3.2	1
3	Lab on a rod: Size-based particle separation and sorting in a helical channel. *Biomicrofluidics*, **2020**, 14, 064104	3.2	1
2	An ultrafast enzyme-free acoustic technique for detaching adhered cells in microchannels.. *RSC Advances*, **2021**, 11, 32824-32829	3.7	0
1	Acoustic Microflows: Dancing with the Cells: Acoustic Microflows Generated by Oscillating Cells (Small 9/2020). *Small*, **2020**, 16, 2070045	11	