

# Scott S H Tsai

## List of Publications by Year in Descending Order

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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.

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	An ultrafast enzyme-free acoustic technique for detaching adhered cells in microchannels.. <i>RSC Advances</i> , <b>2021</b> , 11, 32824-32829	3.7	0
41	Biomedical nanobubbles and opportunities for microfluidics.. <i>RSC Advances</i> , <b>2021</b> , 11, 32750-32774	3.7	3
40	Microfluidic Generation of Monodisperse Nanobubbles by Selective Gas Dissolution. <i>Small</i> , <b>2021</b> , 17, e2100345	11	6
39	Ultrasound and Microbubbles for Targeted Drug Delivery to the Lung Endothelium in ARDS: Cellular Mechanisms and Therapeutic Opportunities. <i>Biomedicines</i> , <b>2021</b> , 9,	4.8	2
38	Dosage-controlled intracellular delivery mediated by acoustofluidics for lab on a chip applications. <i>Lab on A Chip</i> , <b>2021</b> , 21, 1788-1797	7.2	3
37	Magnetic polyelectrolyte microcapsules via water-in-water droplet microfluidics. <i>Lab on A Chip</i> , <b>2020</b> , 20, 2851-2860	7.2	6
36	Magnetic water-in-water droplet microfluidics: Systematic experiments and scaling mathematical analysis. <i>Biomicrofluidics</i> , <b>2020</b> , 14, 024101	3.2	1
35	Acoustic Microflows: Dancing with the Cells: Acoustic Microflows Generated by Oscillating Cells (Small 9/2020). <i>Small</i> , <b>2020</b> , 16, 2070045	11	
34	A novel abrasive water jet machining technique for rapid fabrication of three-dimensional microfluidic components. <i>Biomicrofluidics</i> , <b>2020</b> , 14, 044103	3.2	2
33	Microfluidic Generation of All-Aqueous Double and Triple Emulsions. <i>Small</i> , <b>2020</b> , 16, e1906565	11	26
32	Expansion-mediated breakup of bubbles and droplets in microfluidics. <i>Physical Review Fluids</i> , <b>2020</b> , 5,	2.8	5
31	Dancing with the Cells: Acoustic Microflows Generated by Oscillating Cells. <i>Small</i> , <b>2020</b> , 16, e1903788	11	10
30	Lab on a rod: Size-based particle separation and sorting in a helical channel. <i>Biomicrofluidics</i> , <b>2020</b> , 14, 064104	3.2	1
29	Evaporation-Driven Water-in-Water Droplet Formation. <i>Langmuir</i> , <b>2020</b> , 36, 14333-14341	4	4
28	Inertial particle separation in helical channels: A calibrated numerical analysis. <i>AIP Advances</i> , <b>2020</b> , 10, 125101	1.5	6
27	Microneedle-assisted microfluidic flow focusing for versatile and high throughput water-in-water droplet generation. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 553, 382-389	9.3	16
26	Sizing biological cells using a microfluidic acoustic flow cytometer. <i>Scientific Reports</i> , <b>2019</b> , 9, 4775	4.9	13

25	Controlled generation of spiky microparticles by ionic cross-linking within an aqueous two-phase system. <i>Soft Matter</i> , <b>2019</b> , 15, 3301-3306	3.6	7
24	Simultaneous acoustic and photoacoustic microfluidic flow cytometry for label-free analysis. <i>Scientific Reports</i> , <b>2019</b> , 9, 1585	4.9	18
23	Diamagnetic droplet microfluidics applied to single-cell sorting. <i>AIP Advances</i> , <b>2019</b> , 9, 075106	1.5	8
22	Controlled Electrospray Generation of Nonspherical Alginate Microparticles. <i>ChemPhysChem</i> , <b>2018</b> , 19, 2113-2118	3.2	17
21	Microfluidic Generation of Particle-Stabilized Water-in-Water Emulsions. <i>Langmuir</i> , <b>2018</b> , 34, 213-218	4	14
20	Microfluidic diamagnetic water-in-water droplets: a biocompatible cell encapsulation and manipulation platform. <i>Lab on A Chip</i> , <b>2018</b> , 18, 3361-3370	7.2	25
19	Honey, I shrunk the bubbles: microfluidic vacuum shrinkage of lipid-stabilized microbubbles. <i>Soft Matter</i> , <b>2017</b> , 13, 4011-4016	3.6	10
18	Stable microfluidic flow focusing using hydrostatics. <i>Biomicrofluidics</i> , <b>2017</b> , 11, 034104	3.2	20
17	Shrinking microbubbles with microfluidics: mathematical modelling to control microbubble sizes. <i>Soft Matter</i> , <b>2017</b> , 13, 8796-8806	3.6	7
16	Shrinking, growing, and bursting: microfluidic equilibrium control of water-in-water droplets. <i>Lab on A Chip</i> , <b>2016</b> , 16, 2601-8	7.2	27
15	Microfluidic magnetic self-assembly at liquid-liquid interfaces. <i>Soft Matter</i> , <b>2016</b> , 12, 2668-75	3.6	13
14	Water-in-Water Droplets by Passive Microfluidic Flow Focusing. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 3982-9	7.8	77
13	Classification of biological cells using a sound wave based flow cytometer <b>2016</b> ,		6
12	Detection of trace arsenic in drinking water: challenges and opportunities for microfluidics. <i>Environmental Science: Water Research and Technology</i> , <b>2015</b> , 1, 426-447	4.2	90
11	Floating and sinking of self-assembled spheres on liquid-liquid interfaces: Rafts versus stacks. <i>Physics of Fluids</i> , <b>2015</b> , 27, 072102	4.4	11
10	Microfluidic generation of aqueous two-phase system (ATPS) droplets by controlled pulsating inlet pressures. <i>Lab on A Chip</i> , <b>2015</b> , 15, 2437-44	7.2	73
9	Rotary polymer micromachines: in situ fabrication of microgear components in microchannels. <i>Microfluidics and Nanofluidics</i> , <b>2015</b> , 19, 67-74	2.8	13
8	Microfluidic conformal coating of non-spherical magnetic particles. <i>Biomicrofluidics</i> , <b>2014</b> , 8, 052103	3.2	16

7	One-step two-dimensional microfluidics-based synthesis of three-dimensional particles. <i>Advanced Materials</i> , <b>2014</b> , 26, 1393-8	24	47
6	Electric field induced sheeting and breakup of dielectric liquid jets. <i>Physics of Fluids</i> , <b>2014</b> , 26, 012103	4.4	11
5	Dripping and jetting in microfluidic multiphase flows applied to particle and fiber synthesis. <i>Journal Physics D: Applied Physics</i> , <b>2013</b> , 46,	3	236
4	Interfacial deflection and jetting of a paramagnetic particle-laden fluid: theory and experiment. <i>Soft Matter</i> , <b>2013</b> , 9, 8600	3.6	15
3	Microfluidic ultralow interfacial tensiometry with magnetic particles. <i>Lab on A Chip</i> , <b>2013</b> , 13, 119-25	7.2	32
2	Microfluidic immunomagnetic multi-target sorting--a model for controlling deflection of paramagnetic beads. <i>Lab on A Chip</i> , <b>2011</b> , 11, 2577-82	7.2	31
1	Conformal coating of particles in microchannels by magnetic forcing. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 153509	3.4	42