Ghulam Destgeer

List of Publications by Citations

44 papers	1,466 citations	22 h-index	38 g-index
50 ext. papers	1,761 ext. citations	5.9 avg, IF	5.02 L-index

#	Paper	IF	Citations
44	Recent advances in microfluidic actuation and micro-object manipulation via surface acoustic waves. *Lab on A Chip*, **2015**, 15, 2722-38	7.2	219
43	Continuous separation of particles in a PDMS microfluidic channel via travelling surface acoustic waves (TSAW). *Lab on A Chip*, **2013**, 13, 4210-6	7.2	142
42	Microchannel anechoic corner for size-selective separation and medium exchange via traveling surface acoustic waves. *Analytical Chemistry*, **2015**, 87, 4627-32	7.8	100
41	Acoustofluidic particle manipulation inside a sessile droplet: four distinct regimes of particle concentration. *Lab on A Chip*, **2016**, 16, 660-7	7.2	98
40	Submicron separation of microspheres via travelling surface acoustic waves. *Lab on A Chip*, **2014**, 14, 4665-72	7.2	90
39	Adjustable, rapidly switching microfluidic gradient generation using focused travelling surface acoustic waves. *Applied Physics Letters*, **2014**, 104, 023506	3.4	72
38	On-demand droplet splitting using surface acoustic waves. *Lab on A Chip*, **2016**, 16, 3235-43	7.2	71
37	Acoustothermal heating of polydimethylsiloxane microfluidic system. *Scientific Reports*, **2015**, 5, 11851	4.9	54
36	Lamb Wave-Based Acoustic Radiation Force-Driven Particle Ring Formation Inside a Sessile Droplet. *Analytical Chemistry*, **2016**, 88, 3976-81	7.8	43
35	Particle Separation inside a Sessile Droplet with Variable Contact Angle Using Surface Acoustic Waves. *Analytical Chemistry*, **2017**, 89, 736-744	7.8	41
34	On-demand acoustic droplet splitting and steering in a disposable microfluidic chip. *Lab on A Chip*, **2018**, 18, 422-432	7.2	39
33	Acoustothermal tweezer for droplet sorting in a disposable microfluidic chip. *Lab on A Chip*, **2017**, 17, 1031-1040	7.2	35
32	In-droplet microparticle washing and enrichment using surface acoustic wave-driven acoustic radiation force. *Lab on A Chip*, **2018**, 18, 2936-2945	7.2	33
31	On-Demand Droplet Capture and Release Using Microwell-Assisted Surface Acoustic Waves. *Analytical Chemistry*, **2017**, 89, 2211-2215	7.8	29
30	Vertical Hydrodynamic Focusing and Continuous Acoustofluidic Separation of Particles via Upward Migration. *Advanced Science*, **2018**, 5, 1700285	13.6	28
29	Transfer of Microparticles across Laminar Streams from Non-Newtonian to Newtonian Fluid. *Analytical Chemistry*, **2016**, 88, 4205-10	7.8	28
28	Acoustic impedance-based manipulation of elastic microspheres using travelling surface acoustic waves. *RSC Advances*, **2017**, 7, 22524-22530	3.7	27

27	Sheathless Focusing and Separation of Microparticles Using Tilted-Angle Traveling Surface Acoustic Waves. *Analytical Chemistry*, **2018**, 90, 8546-8552	7.8	26
26	Travelling Surface Acoustic Waves Microfluidics. *Physics Procedia*, **2015**, 70, 34-37		25
25	Dielectrophoresis based cell switching in continuous flow microfluidic devices. *Journal of Electrostatics*, **2016**, 84, 63-72	1.7	25
24	Acoustic Wave-Driven Functionalized Particles for Aptamer-Based Target Biomolecule Separation. *Analytical Chemistry*, **2017**, 89, 13313-13319	7.8	22
23	A Pumpless Acoustofluidic Platform for Size-Selective Concentration and Separation of Microparticles. *Analytical Chemistry*, **2017**, 89, 13575-13581	7.8	22
22	In-droplet microparticle separation using travelling surface acoustic wave. *Biomicrofluidics*, **2017**, 11, 064112	3.2	20
21	Surface acoustic wave-based micromixing enhancement using a single interdigital transducer. *Applied Physics Letters*, **2019**, 114, 043702	3.4	19
20	Generation of Dynamic Free-Form Temperature Gradients in a Disposable Microchip. *Analytical Chemistry*, **2015**, 87, 11568-74	7.8	19
19	Microparticle self-assembly induced by travelling surface acoustic waves.. *RSC Advances*, **2019**, 9, 7916-7921	3.7	17
18	In situ seriate droplet coalescence under an optical force. *Microfluidics and Nanofluidics*, **2015**, 18, 1247-1254	2.8	17
17	Spatiotemporally controllable acoustothermal heating and its application to disposable thermochromic displays. *RSC Advances*, **2016**, 6, 33937-33944	3.7	17
16	Model for tracing the path of microparticles in continuous flow microfluidic devices for 2D focusing via standing acoustic waves. *Separation and Purification Technology*, **2015**, 153, 99-107	8.3	16
15	Fabrication of 3D concentric amphiphilic microparticles to form uniform nanoliter reaction volumes for amplified affinity assays. *Lab on A Chip*, **2020**, 20, 3503-3514	7.2	14
14	Acoustofluidic generation of droplets with tunable chemical concentrations. *Lab on A Chip*, **2020**, 20, 3922-3929	7.2	11
13	High frequency travelling surface acoustic waves for microparticle separation. *Journal of Mechanical Science and Technology*, **2016**, 30, 3945-3952	1.6	10
12	Microfluidic flow switching localized acoustic streaming controlled by surface acoustic waves.. *RSC Advances*, **2018**, 8, 3206-3212	3.7	9
11	Engineering Design of Concentric Amphiphilic Microparticles for Spontaneous Formation of Picoliter to Nanoliter Droplet Volumes. *Analytical Chemistry*, **2021**, 93, 2317-2326	7.8	7
10	Characterization of microchannel anechoic corners formed by surface acoustic waves. *Applied Physics Letters*, **2018**, 112, 083501	3.4	5

9	Photosynthesis of cyanobacteria in a miniaturized optofluidic waveguide platform. *RSC Advances*, **2016**, 6, 11081-11087	3.7	5
8	Microchannel Anechoic Corner for Microparticle Manipulation via Travelling Surface Acoustic Waves. *Physics Procedia*, **2015**, 70, 30-33		5
7	Acoustomicrofluidic separation of tardigrades from raw cultures for sample preparation. *Zoological Journal of the Linnean Society*, **2019**,	2.4	2
6	Formation of uniform reaction volumes using concentric amphiphilic microparticles		2
5	An Acoustothermal Heater for Paper Microfluidics towards Point-of-care Glucose Detection. *Physics Procedia*, **2015**, 70, 46-49		1
4	Generation of Complex, Dynamic Temperature Gradients in a Disposable Microchip. *Physics Procedia*, **2015**, 70, 38-41		1
3	An Acoustothermal Microheater with Omni-temperature Controllability. *Physics Procedia*, **2015**, 70, 819-823		
2	Optical Manipulation of Droplets in a Microfluidic Platform. *Journal of the Korean Society of Visualization*, **2014**, 12, 13-17		
1	Acoustothermal Heating of Polydimethylsiloxane Microfluidic Systems and its Applications. *Journal of the Korean Society of Visualization*, **2016**, 14, 57-61		