Ali Asgar S Bhagat

List of Publications by Citations

48 papers	5,609 citations	28 h-index	55 g-index
55 ext. papers	6,346 ext. citations	6.1 avg, IF	5.59 L-index

#	Paper	IF	Citations
48	Isolation and retrieval of circulating tumor cells using centrifugal forces. *Scientific Reports*, **2013**, 3, 1259	4.9	523
47	Inertial microfluidics for continuous particle separation in spiral microchannels. *Lab on A Chip*, **2009**, 9, 2973-80	7.2	481
46	Continuous particle separation in spiral microchannels using Dean flows and differential migration. *Lab on A Chip*, **2008**, 8, 1906-14	7.2	438
45	Microfluidics for cell separation. *Medical and Biological Engineering and Computing*, **2010**, 48, 999-1014	3.1	428
44	Slanted spiral microfluidics for the ultra-fast, label-free isolation of circulating tumor cells. *Lab on A Chip*, **2014**, 14, 128-37	7.2	385
43	Ultra-fast, label-free isolation of circulating tumor cells from blood using spiral microfluidics. *Nature Protocols*, **2016**, 11, 134-48	18.8	338
42	Pinched flow coupled shear-modulated inertial microfluidics for high-throughput rare blood cell separation. *Lab on A Chip*, **2011**, 11, 1870-8	7.2	280
41	Deformability based cell margination--a simple microfluidic design for malaria-infected erythrocyte separation. *Lab on A Chip*, **2010**, 10, 2605-13	7.2	244
40	Inertial microfluidics for continuous particle filtration and extraction. *Microfluidics and Nanofluidics*, **2009**, 7, 217-226	2.8	222
39	A passive planar micromixer with obstructions for mixing at low Reynolds numbers. *Journal of Micromechanics and Microengineering*, **2007**, 17, 1017-1024	2	216
38	Spiral microchannel with rectangular and trapezoidal cross-sections for size based particle separation. *Scientific Reports*, **2013**, 3, 1475	4.9	184
37	Enhanced particle filtration in straight microchannels using shear-modulated inertial migration. *Physics of Fluids*, **2008**, 20, 101702	4.4	182
36	Inertial microfluidics for sheath-less high-throughput flow cytometry. *Biomedical Microdevices*, **2010**, 12, 187-95	3.7	152
35	Separation of leukocytes from blood using spiral channel with trapezoid cross-section. *Analytical Chemistry*, **2012**, 84, 9324-31	7.8	151
34	An ultra-high-throughput spiral microfluidic biochip for the enrichment of circulating tumor cells. *Analyst, The*, **2014**, 139, 3245-55	5	146
33	Clinical validation of an ultra high-throughput spiral microfluidics for the detection and enrichment of viable circulating tumor cells. *PLoS ONE*, **2014**, 9, e99409	3.7	139
32	High-throughput cell cycle synchronization using inertial forces in spiral microchannels. *Lab on A Chip*, **2011**, 11, 1359-67	7.2	137

31	Photodefinable polydimethylsiloxane (PDMS) for rapid lab-on-a-chip prototyping. *Lab on A Chip*, **2007**, 7, 1192-7	7.2	126
30	Isoporous micro/nanoengineered membranes. *ACS Nano*, **2013**, 7, 1882-904	16.7	123
29	Microfluidic Devices for Blood Fractionation. *Micromachines*, **2011**, 2, 319-343	3.3	123
28	Micromagnetic resonance relaxometry for rapid label-free malaria diagnosis. *Nature Medicine*, **2014** , 20, 1069-73	50.5	84
27	A microfluidics approach towards high-throughput pathogen removal from blood using margination. *Biomicrofluidics*, **2012**, 6, 24115-2411513	3.2	66
26	Re-usable quick-release interconnect for characterization of microfluidic systems. *Journal of Micromechanics and Microengineering*, **2007**, 17, 42-49	2	61
25	Photodefinable PDMS thin films for microfabrication applications. *Journal of Micromechanics and Microengineering*, **2009**, 19, 045024	2	58
24	Enhancing particle dispersion in a passive planar micromixer using rectangular obstacles. *Journal of Micromechanics and Microengineering*, **2008**, 18, 085005	2	54
23	ClearCell FX, a label-free microfluidics technology for enrichment of viable circulating tumor cells. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2018**, 93, 1251-1254	4.6	46
22	Single cell kinase signaling assay using pinched flow coupled droplet microfluidics. *Biomicrofluidics*, **2014**, 8, 034104	3.2	29
21	Addressing cellular heterogeneity in tumor and circulation for refined prognostication. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 17957-17962	11.5	29
20	Rapid mixing of sub-microlitre drops by magnetic micro-stirring. *Lab on A Chip*, **2011**, 11, 3313-9	7.2	24
19	Real-time control of a microfluidic channel for size-independent deformability cytometry. *Journal of Micromechanics and Microengineering*, **2012**, 22, 105037	2	20
18	Prospective Molecular Profiling of Circulating Tumor Cells from Patients with Melanoma Receiving Combinatorial Immunotherapy. *Clinical Chemistry*, **2020**, 66, 169-177	5.5	17
17	Integrative Analysis and Machine Learning based Characterization of Single Circulating Tumor Cells. *Journal of Clinical Medicine*, **2020**, 9,	5.1	16
16	A preliminary study for the assessment of PD-L1 and PD-L2 on circulating tumor cells by microfluidic-based chipcytometry. *Future Science OA*, **2017**, 3, FSO244	2.7	15
15	Transport and reaction of nanoliter samples in a microfluidic reactor using electro-osmotic flow. *Journal of Micromechanics and Microengineering*, **2010**, 20, 035017	2	13
14	Effects of applied electric field and microchannel wetted perimeter on electroosmotic velocity. *Microfluidics and Nanofluidics*, **2008**, 5, 185-192	2.8	9

13	Detection and prognostic relevance of circulating tumour cells (CTCs) in Asian breast cancers using a label-free microfluidic platform. *PLoS ONE*, **2019**, 14, e0221305	3.7	7
12	Spiral microfluidic nanoparticle separators **2008**,		6
11	Passive micromixer with break-up obstructions **2006**, 6112, 145		6
10	Passive micromixer with obstructions for lab-on-a-chip applications **2005**,		6
9	Microfluidic technologies. *Recent Results in Cancer Research*, **2012**, 195, 59-67	1.5	5
8	Simple passive micromixer using recombinant multiple flow streams **2007**,		4
7	Abstract 2923: Label-free enrichment and integrated full-length mRNA transcriptome analysis of single live circulating tumor cells from breast cancer patients **2017**,		4
6	High-throughput synchronization of mammalian cell cultures by spiral microfluidics. *Methods in Molecular Biology*, **2014**, 1104, 3-13	1.4	3
5	Deformability Based Cell Margination □A Simple Microfluidic Design for Malarial Infected Red Blood Cell Filtration. *IFMBE Proceedings*, **2010**, 1671-1674	0.2	3
4	A simple planar micromixer with low-pressure drop for disposable lab-on-a-chip (LOC) systems **2007**,		2
3	Abstract 3788: Monitoring of multimodality immune checkpoint inhibitor treatment efficacy in metastatic melanoma patients through molecular analysis of circulating tumor cells **2017**,		2
2	Photosensitive Poly(Dimethylsiloxane) (Photopdms) for Rapid and Simple Polymer Fabrication **2007**,		1
1	Integrative analysis and machine learning based characterization of single circulating tumor cells		1