

Per Augustsson

List of Publications by Year in descending order

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33
papers

2,416
citations

257450

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docs citations

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times ranked

1793
citing authors

#	ARTICLE	IF	CITATIONS
1	Microfluidic, Label-Free Enrichment of Prostate Cancer Cells in Blood Based on Acoustophoresis. <i>Analytical Chemistry</i> , 2012, 84, 7954-7962.	6.5	287
2	Measuring the local pressure amplitude in microchannel acoustophoresis. <i>Lab on A Chip</i> , 2010, 10, 563.	6.0	229
3	Acoustic radiation- and streaming-induced microparticle velocities determined by microparticle image velocimetry in an ultrasound symmetry plane. <i>Physical Review E</i> , 2012, 86, 056307.	2.1	194
4	Iso-acoustic focusing of cells for size-insensitive acousto-mechanical phenotyping. <i>Nature Communications</i> , 2016, 7, 11556.	12.8	181
5	Automated and temperature-controlled micro-PIV measurements enabling long-term-stable microchannel acoustophoresis characterization. <i>Lab on A Chip</i> , 2011, 11, 4152.	6.0	137
6	Ultrasound-induced acoustophoretic motion of microparticles in three dimensions. <i>Physical Review E</i> , 2013, 88, 023006.	2.1	132
7	Acoustofluidic, Label-Free Separation and Simultaneous Concentration of Rare Tumor Cells from White Blood Cells. <i>Analytical Chemistry</i> , 2015, 87, 9322-9328.	6.5	131
8	Focusing of sub-micrometer particles and bacteria enabled by two-dimensional acoustophoresis. <i>Lab on A Chip</i> , 2014, 14, 2791-2799.	6.0	124
9	Microchannel Acoustophoresis does not Impact Survival or Function of Microglia, Leukocytes or Tumor Cells. <i>PLoS ONE</i> , 2013, 8, e64233.	2.5	101
10	A single inlet two-stage acoustophoresis chip enabling tumor cell enrichment from white blood cells. <i>Lab on A Chip</i> , 2015, 15, 2102-2109.	6.0	92
11	Harmonic Microchip Acoustophoresis: A Route to Online Raw Milk Sample Precondition in Protein and Lipid Content Quality Control. <i>Analytical Chemistry</i> , 2009, 81, 6195-6200.	6.5	82
12	Acoustic impedance matched buffers enable separation of bacteria from blood cells at high cell concentrations. <i>Scientific Reports</i> , 2018, 8, 9156.	3.3	72
13	Acoustic Force Density Acting on Inhomogeneous Fluids in Acoustic Fields. <i>Physical Review Letters</i> , 2016, 117, 114504.	7.8	71
14	Buffer medium exchange in continuous cell and particle streams using ultrasonic standing wave focusing. <i>Mikrochimica Acta</i> , 2009, 164, 269-277.	5.0	64
15	Decomplexing biofluids using microchip based acoustophoresis. <i>Lab on A Chip</i> , 2009, 9, 810-818.	6.0	64
16	Acoustic Streaming and Its Suppression in Inhomogeneous Fluids. <i>Physical Review Letters</i> , 2018, 120, 054501.	7.8	56
17	Acoustic radiation forces at liquid interfaces impact the performance of acoustophoresis. <i>Lab on A Chip</i> , 2014, 14, 3394-3400.	6.0	52
18	Clinical-Scale Cell-Surface-Marker Independent Acoustic Microfluidic Enrichment of Tumor Cells from Blood. <i>Analytical Chemistry</i> , 2017, 89, 11954-11961.	6.5	50

#	ARTICLE	IF	CITATIONS
19	Acoustofluidics 11: Affinity specific extraction and sample decomplexing using continuous flow acoustophoresis. Lab on A Chip, 2012, 12, 1742.	6.0	47
20	Acoustic microfluidic chip technology to facilitate automation of phage display selection. FEBS Journal, 2008, 275, 5657-5666.	4.7	41
21	Experimental Characterization of Acoustic Streaming in Gradients of Density and Compressibility. Physical Review Applied, 2019, 11, .	3.8	41
22	Label-free concentration of viable neurons, hESCs and cancer cells by means of acoustophoresis. Integrative Biology (United Kingdom), 2016, 8, 332-340.	1.3	34
23	Gradient acoustic focusing of sub-micron particles for separation of bacteria from blood lysate. Scientific Reports, 2020, 10, 3670.	3.3	34
24	Label-free somatic cell cytometry in raw milk using acoustophoresis. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2012, 81A, 1076-1083.	1.5	32
25	Particle-size-dependent acoustophoretic motion and depletion of micro- and nano-particles at long timescales. Physical Review E, 2020, 102, 013108.	2.1	22
26	Acoustofluidic hematocrit determination. Analytica Chimica Acta, 2018, 1000, 199-204.	5.4	15
27	Acoustophoretic microfluidic chip for sequential elution of surface bound molecules from beads or cells. Biomicrofluidics, 2012, 6, 34115.	2.4	11
28	Fast Microscale Acoustic Streaming Driven by a Temperature-Gradient-Induced Nondissipative Acoustic Body Force. Physical Review Letters, 2021, 127, 064501.	7.8	11
29	Applications in Continuous Flow Acoustophoresis. , 2014, , 148-188.		2
30	Suppression of acoustic streaming by the inhomogeneity-induced acoustic body force. Proceedings of Meetings on Acoustics, 2018, , .	0.3	1
31	Abstract 3077: Label free prostate cancer cell isolation from blood by acoustic standing wave technology - acoustophoresis. , 2014, , .		1
32	Notice of Removal: Shaping acoustofluidic landscapes to profile and separate cells and sub-micron particles. , 2017, , .		0
33	Abstract 1461: Two dimensional acoustic wave technology offers improved label free prostate cancer cell separation in blood.. , 2013, , .		0