

List of Publications by Citations

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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.

98
papers

3,758
citations

35
h-index

58
g-index

102
ext. papers

4,484
ext. citations

6.2
avg, IF

5.99
L-index

#	Paper	IF	Citations
98	The Poisson distribution and beyond: methods for microfluidic droplet production and single cell encapsulation. <i>Lab on A Chip</i> , 2015 , 15, 3439-59	7.2	278
97	Active droplet sorting in microfluidics: a review. <i>Lab on A Chip</i> , 2017 , 17, 751-771	7.2	177
96	Two dimensional atomically thin MoS2 nanosheets and their sensing applications. <i>Nanoscale</i> , 2015 , 7, 19358-76	7.7	174
95	Effects of Electroosmotic Flow on Ionic Current Rectification in Conical Nanopores. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3883-3890	3.8	139
94	Separation of Escherichia coli bacteria from peripheral blood mononuclear cells using standing surface acoustic waves. <i>Analytical Chemistry</i> , 2013 , 85, 9126-34	7.8	131
93	Highly Localized Acoustic Streaming and Size-Selective Submicrometer Particle Concentration Using High Frequency Microscale Focused Acoustic Fields. <i>Analytical Chemistry</i> , 2016 , 88, 5513-22	7.8	118
92	Highly focused high-frequency travelling surface acoustic waves (SAW) for rapid single-particle sorting. <i>Lab on A Chip</i> , 2016 , 16, 471-9	7.2	113
91	Continuous micro-vortex-based nanoparticle manipulation via focused surface acoustic waves. <i>Lab on A Chip</i> , 2016 , 17, 91-103	7.2	111
90	Field effect regulation of DNA translocation through a nanopore. <i>Analytical Chemistry</i> , 2010 , 82, 8217-25	7.8	93
89	Acoustic tweezers via sub-time-of-flight regime surface acoustic waves. <i>Science Advances</i> , 2016 , 2, e160089	7.8	91
88	A novel single-layered MoS2 nanosheet based microfluidic biosensor for ultrasensitive detection of DNA. <i>Nanoscale</i> , 2015 , 7, 2245-9	7.7	88
87	Fluorescence activated cell sorting via a focused traveling surface acoustic beam. <i>Lab on A Chip</i> , 2017 , 17, 3176-3185	7.2	77
86	DC dielectrophoretic particle-particle interactions and their relative motions. <i>Journal of Colloid and Interface Science</i> , 2010 , 346, 448-54	9.3	72
85	Detachable Acoustofluidic System for Particle Separation via a Traveling Surface Acoustic Wave. <i>Analytical Chemistry</i> , 2016 , 88, 5316-23	7.8	71
84	DC electrokinetic particle transport in an L-shaped microchannel. <i>Langmuir</i> , 2010 , 26, 2937-44	4	65
83	Selective particle and cell capture in a continuous flow using micro-vortex acoustic streaming. <i>Lab on A Chip</i> , 2017 , 17, 1769-1777	7.2	61
82	Submicron Particle Focusing and Exosome Sorting by Wavy Microchannel Structures within Viscoelastic Fluids. <i>Analytical Chemistry</i> , 2019 , 91, 4577-4584	7.8	61

81	Electrokinetic particle translocation through a nanopore. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 4060-71	3.6	61
80	Transient electrophoretic motion of a charged particle through a converging-diverging microchannel: effect of direct current-dielectrophoretic force. <i>Electrophoresis</i> , 2009 , 30, 2499-506	3.6	60
79	Wall-induced lateral migration in particle electrophoresis through a rectangular microchannel. <i>Journal of Colloid and Interface Science</i> , 2010 , 347, 142-6	9.3	56
78	Mechanical Properties Based Particle Separation via Traveling Surface Acoustic Wave. <i>Analytical Chemistry</i> , 2016 , 88, 11844-11851	7.8	54
77	Direct numerical simulation of AC dielectrophoretic particle-particle interactive motions. <i>Journal of Colloid and Interface Science</i> , 2014 , 417, 72-9	9.3	54
76	dc electrokinetic transport of cylindrical cells in straight microchannels. <i>Biomicrofluidics</i> , 2009 , 3, 44110	3.2	51
75	pH-regulated ionic current rectification in conical nanopores functionalized with polyelectrolyte brushes. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 2465-74	3.6	50
74	Droplet translocation by focused surface acoustic waves. <i>Microfluidics and Nanofluidics</i> , 2012 , 13, 715-722	4.9	49
73	Characterizing Deformability and Electrical Impedance of Cancer Cells in a Microfluidic Device. <i>Analytical Chemistry</i> , 2018 , 90, 912-919	7.8	49
72	Self-Aligned Acoustofluidic Particle Focusing and Patterning in Microfluidic Channels from Channel-Based Acoustic Waveguides. <i>Physical Review Letters</i> , 2018 , 120, 074502	7.4	48
71	On-Demand Lensless Single Cell Imaging Activated by Differential Resistive Pulse Sensing. <i>Analytical Chemistry</i> , 2015 , 87, 6516-9	7.8	43
70	The patterning mechanism of carbon nanotubes using surface acoustic waves: the acoustic radiation effect or the dielectrophoretic effect. <i>Nanoscale</i> , 2015 , 7, 14047-54	7.7	42
69	Dielectrophoretic choking phenomenon in a converging-diverging microchannel. <i>Biomicrofluidics</i> , 2010 , 4, 13201	3.2	42
68	Ionic current rectification in a conical nanofluidic field effect transistor. <i>Sensors and Actuators B: Chemical</i> , 2011 , 157, 742-751	8.5	40
67	A low-voltage nano-porous electroosmotic pump. <i>Journal of Colloid and Interface Science</i> , 2010 , 350, 465-70	9.3	40
66	Field effect control of electrokinetic transport in micro/nanofluidics. <i>Sensors and Actuators B: Chemical</i> , 2012 , 161, 1150-1167	8.5	39
65	Huygens-Fresnel Acoustic Interference and the Development of Robust Time-Averaged Patterns from Traveling Surface Acoustic Waves. <i>Physical Review Letters</i> , 2017 , 118, 154501	7.4	37
64	Effect of linear surface-charge non-uniformities on the electrokinetic ionic-current rectification in conical nanopores. <i>Journal of Colloid and Interface Science</i> , 2009 , 329, 376-83	9.3	35

63	Pressure-driven transport of particles through a converging-diverging microchannel. <i>Biomicrofluidics</i> , 2009 , 3, 22404	3.2	35
62	Virtual membrane for filtration of particles using surface acoustic waves (SAW). <i>Lab on A Chip</i> , 2016 , 16, 3515-23	7.2	33
61	Radiation dominated acoustophoresis driven by surface acoustic waves. <i>Journal of Colloid and Interface Science</i> , 2015 , 455, 203-11	9.3	32
60	Electrophoretic motion of a soft spherical particle in a nanopore. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 88, 165-74	6	32
59	A high-throughput dielectrophoresis-based cell electrofusion microfluidic device. <i>Electrophoresis</i> , 2011 , 32, 2488-95	3.6	31
58	Detachable Acoustophoretic System for Fluorescence-Activated Sorting at the Single-Droplet Level. <i>Analytical Chemistry</i> , 2019 , 91, 9970-9977	7.8	30
57	Exosome Purification and Analysis Using a Facile Microfluidic Hydrodynamic Trapping Device. <i>Analytical Chemistry</i> , 2020 , 92, 10733-10742	7.8	30
56	Sheathless inertial cell focusing and sorting with serial reverse wavy channel structures. <i>Microsystems and Nanoengineering</i> , 2018 , 4, 5	7.7	30
55	Self-Aligned Interdigitated Transducers for Acoustofluidics. <i>Micromachines</i> , 2016 , 7,	3.3	30
54	A portable image-based cytometer for rapid malaria detection and quantification. <i>PLoS ONE</i> , 2017 , 12, e0179161	3.7	28
53	Flow-rate-insensitive deterministic particle sorting using a combination of travelling and standing surface acoustic waves. <i>Microfluidics and Nanofluidics</i> , 2016 , 20, 1	2.8	28
52	Electrokinetic particle translocation through a nanopore containing a floating electrode. <i>Electrophoresis</i> , 2011 , 32, 1864-74	3.6	27
51	DNA single-base mismatch study using graphene oxide nanosheets-based fluorometric biosensors. <i>Analytical Chemistry</i> , 2015 , 87, 9132-6	7.8	26
50	Polarization Effect of a Dielectric Membrane on the Ionic Current Rectification in a Conical Nanopore. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 24951-24959	3.8	26
49	Biophysical phenotyping of single cells using a differential multiconstriction microfluidic device with self-aligned 3D electrodes. <i>Biosensors and Bioelectronics</i> , 2019 , 133, 16-23	11.8	25
48	Direct numerical simulation of electrokinetic translocation of a cylindrical particle through a nanopore using a Poisson-Boltzmann approach. <i>Electrophoresis</i> , 2011 , 32, 996-1005	3.6	25
47	Electrokinetic Particle Transport in Micro-/Nanofluidics		25
46	Electrokinetic motion of a deformable particle: dielectrophoretic effect. <i>Electrophoresis</i> , 2011 , 32, 2282-91	3.6	23

45	Dynamically tunable elasto-inertial particle focusing and sorting in microfluidics. <i>Lab on A Chip</i> , 2020 , 20, 568-581	7.2	23
44	Microfluidic impedance cytometry device with N-shaped electrodes for lateral position measurement of single cells/particles. <i>Lab on A Chip</i> , 2019 , 19, 3609-3617	7.2	21
43	Hybrid microfluidic sorting of rare cells based on high throughput inertial focusing and high accuracy acoustic manipulation.. <i>RSC Advances</i> , 2019 , 9, 31186-31195	3.7	21
42	Simple and low cost integration of highly conductive three-dimensional electrodes in microfluidic devices. <i>Biomedical Microdevices</i> , 2015 , 17, 4	3.7	20
41	A MoS ₂ /MWCNT based fluorometric nanosensor for exosome detection and quantification. <i>Nanoscale Advances</i> , 2019 , 1, 2866-2872	5.1	20
40	Sheathless Acoustic Fluorescence Activated Cell Sorting (aFACS) with High Cell Viability. <i>Analytical Chemistry</i> , 2019 , 91, 15425-15435	7.8	20
39	A Compact Optofluidic Cytometer for Detection and Enumeration of Tumor Cells. <i>Journal of Lightwave Technology</i> , 2015 , 33, 3433-3438	4	19
38	A deep learning approach for designed diffraction-based acoustic patterning in microchannels. <i>Scientific Reports</i> , 2020 , 10, 8745	4.9	19
37	Massively Multiplexed Submicron Particle Patterning in Acoustically Driven Oscillating Nanocavities. <i>Small</i> , 2020 , 16, e2000462	11	17
36	Diffraction-based acoustic manipulation in microchannels enables continuous particle and bacteria focusing. <i>Lab on A Chip</i> , 2020 , 20, 2674-2688	7.2	17
35	A Microfluidic DNA Sensor Based on Three-Dimensional (3D) Hierarchical MoS ₂ /Carbon Nanotube Nanocomposites. <i>Sensors</i> , 2016 , 16,	3.8	17
34	Differential microfluidic sensor on printed circuit board for biological cells analysis. <i>Electrophoresis</i> , 2015 , 36, 1854-8	3.6	16
33	Single-actuator Bandpass Microparticle Filtration via Traveling Surface Acoustic Waves. <i>Colloids and Interface Science Communications</i> , 2017 , 16, 6-9	5.4	15
32	Portable resistive pulse-activated lens-free cell imaging system. <i>RSC Advances</i> , 2014 , 4, 56342-56345	3.7	15
31	Acoustic fields and microfluidic patterning around embedded micro-structures subject to surface acoustic waves. <i>Soft Matter</i> , 2019 , 15, 8691-8705	3.6	15
30	Real time size-dependent particle segregation and quantitative detection in a surface acoustic wave-photoacoustic integrated microfluidic system. <i>Sensors and Actuators B: Chemical</i> , 2017 , 252, 568-576	8.5	14
29	Ultrasonic microstreaming for complex-trajectory transport and rotation of single particles and cells. <i>Lab on A Chip</i> , 2020 , 20, 2947-2953	7.2	14
28	Submicron Particle Concentration and Patterning with Ultralow Frequency Acoustic Vibration. <i>Analytical Chemistry</i> , 2020 , 92, 12795-12800	7.8	14

27	Label-Free Multivariate Biophysical Phenotyping-Activated Acoustic Sorting at the Single-Cell Level. <i>Analytical Chemistry</i> , 2021 , 93, 4108-4117	7.8	13
26	Numerical and experimental characterization of solid-state micropore-based cytometer for detection and enumeration of biological cells. <i>Electrophoresis</i> , 2015 , 36, 737-43	3.6	11
25	Single-Cell Stretching in Viscoelastic Fluids with Electronically Triggered Imaging for Cellular Mechanical Phenotyping. <i>Analytical Chemistry</i> , 2021 , 93, 4567-4575	7.8	11
24	Dual characterization of biological cells by optofluidic microscope and resistive pulse sensor. <i>Electrophoresis</i> , 2015 , 36, 420-3	3.6	10
23	Contact configuration modification at carbon nanotube-metal interface during nanowelding. <i>Journal of Applied Physics</i> , 2009 , 106, 124308	2.5	10
22	Volumetric measurement of human red blood cells by MOSFET-based microfluidic gate. <i>Electrophoresis</i> , 2015 , 36, 1862-5	3.6	9
21	Slowness curve surface acoustic wave transducers for optimized acoustic streaming.. <i>RSC Advances</i> , 2020 , 10, 11582-11589	3.7	9
20	A rapid and meshless analytical model of acoustofluidic pressure fields for waveguide design. <i>Biomicrofluidics</i> , 2018 , 12, 024104	3.2	9
19	A New Accurate and Fast Homography Computation Algorithm for Sports and Traffic Video Analysis. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2018 , 28, 2993-3006	6.4	8
18	Acoustic Vibration-Induced Actuation of Multiple Microrotors in Microfluidics. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000323	6.8	8
17	Submicron-precision particle characterization in microfluidic impedance cytometry with double differential electrodes. <i>Lab on A Chip</i> , 2021 , 21, 2869-2880	7.2	8
16	Deterministic Sorting of Submicrometer Particles and Extracellular Vesicles Using a Combined Electric and Acoustic Field. <i>Nano Letters</i> , 2021 , 21, 6835-6842	11.5	8
15	Enhanced Molecular Diagnosis of Bloodstream Infection with Size-Based Inertial Sorting at Submicron Resolution. <i>Analytical Chemistry</i> , 2020 , 92, 15579-15586	7.8	7
14	Multi-frequency single cell electrical impedance measurement for label-free cell viability analysis. <i>Analyst, The</i> , 2021 , 146, 1848-1858	5	7
13	CMOS Compatible Transient Resistive Memory with Prolonged Lifetime. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900217	6.8	4
12	Acoustic manipulation of breathing MOFs particles for self-folding composite films preparation. <i>Sensors and Actuators A: Physical</i> , 2020 , 315, 112288	3.9	4
11	An Optimized Quantization Constraints Set for Image Restoration and Its GPU Implementation. <i>IEEE Transactions on Image Processing</i> , 2020 ,	8.7	3
10	Label-Free Cell Viability Assay and Enrichment of Cryopreserved Cells Using Microfluidic Cytometry and On-Demand Sorting. <i>Advanced Materials Technologies</i> , 2020 , 5, 2100906	6.8	3

9	Sheathless and high-throughput elasto-inertial bacterial sorting for enhancing molecular diagnosis of bloodstream infection. <i>Lab on A Chip</i> , 2021 , 21, 2163-2177	7.2	3
8	Accurate profiling of blood components in microliter with position-insensitive coplanar electrodes-based cytometry. <i>Sensors and Actuators B: Chemical</i> , 2022 , 367, 132068	8.5	3
7	Physical properties-based microparticle sorting at submicron resolution using a tunable acoustofluidic device. <i>Sensors and Actuators B: Chemical</i> , 2021 , 344, 130203	8.5	2
6	Boron detection and quantification based on the absorption spectra of pyridoxine and its boron complex. <i>Environmental Chemistry</i> , 2017 , 14, 135	3.2	1
5	Separation of biological cells in a microfluidic device using surface acoustic waves (SAWs) 2014 ,		1
4	Sub-Micron Particle Trapping: Massively Multiplexed Submicron Particle Patterning in Acoustically Driven Oscillating Nanocavities (Small 17/2020). <i>Small</i> , 2020 , 16, 2070095	11	0
3	A low-cost and high-throughput benchtop cell sorter for isolating white blood cells from whole blood. <i>Electrophoresis</i> , 2021 , 42, 2281-2292	3.6	0
2	Biosensors for single-cell mechanical characterization 2022 , 101-123		
1	Field Effect Control of Ion, Fluid, and Particle Transport in Micro/Nanofluidics2688-2704		