

CITATION REPORT

List of articles citing

Acoustofluidic, label-free separation and simultaneous concentration of rare tumor cells from white blood cells

DOI: 10.1021/acs.analchem.5b02023
Analytical Chemistry, 2015, 87, 9322-8.

Source: <https://exaly.com/paper-pdf/62643890/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
123	Microfluidic techniques for high throughput single cell analysis. 2016 , 40, 90-96		99
122	Microfluidics for High-Throughput Cellular Isolation and Analysis in Biomedicine. 2016 , 295-322		
121	Microfluidic Methods for Molecular Biology. 2016 ,		3
120	Spatiotemporally controllable acoustothermal heating and its application to disposable thermochromic displays. 2016 , 6, 33937-33944		17
119	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
118	Circulating Tumor Cells Versus Circulating Tumor DNA in Colorectal Cancer: Pros and Cons. 2016 , 12, 151-161		42
117	Acoustics: Motion controlled by sound. 2016 , 537, 493-4		9
116	Virtual membrane for filtration of particles using surface acoustic waves (SAW). 2016 , 16, 3515-23		33
115	Mechanical Properties Based Particle Separation via Traveling Surface Acoustic Wave. <i>Analytical Chemistry</i> , 2016 , 88, 11844-11851	7.8	54
114	Recent insights into the development of nanotechnology to detect circulating tumor cells. 2016 , 82, 191-198		8
113	Circulating tumor cell technologies. 2016 , 10, 374-94		315
112	Highly focused high-frequency travelling surface acoustic waves (SAW) for rapid single-particle sorting. 2016 , 16, 471-9		113
111	Design and simulation of a MEMS based cell separator utilizing 3D travelling-wave dielectrophoresis. 2017 , 23, 1351-1360		4
110	Continuous flow microfluidic separation and processing of rare cells and bioparticles found in blood - A review. 2017 , 965, 9-35		111
109	Label-free single-cell separation and imaging of cancer cells using an integrated microfluidic system. 2017 , 7, 46507		54
108	Numerical model of the sorting of biological cells based on gravity-driven optoelectronic tweezers. 2017 , 31, 2451-2457		
107	Cell line dependent expression of EpCAM influences the detection of circulating tumor cells with CellSearch. 2017 , 2, 194-198		4

106	Acoustic impedance-based manipulation of elastic microspheres using travelling surface acoustic waves. 2017 , 7, 22524-22530		27
105	Isolation and Molecular Characterization of Circulating Tumor Cells. 2017 ,		2
104	Strategies for Isolation and Molecular Profiling of Circulating Tumor Cells. 2017 , 994, 43-66		2
103	Effective cell trapping using PDMS microspheres in an acoustofluidic chip. 2017 , 157, 347-354		5
102	Clinical Applications of Circulating Tumor Cells in Pharmacotherapy: Challenges and Perspectives. 2017 , 92, 232-239		9
101	Acoustic Tweezing and Patterning of Concentration Fields in Microfluidics. <i>Physical Review Applied</i> , 2017 , 7,	4.3	20
100	Clinical-Scale Cell-Surface-Marker Independent Acoustic Microfluidic Enrichment of Tumor Cells from Blood. <i>Analytical Chemistry</i> , 2017 , 89, 11954-11961	7.8	31
99	Three-dimensional ultrasonic trapping of micro-particles in water with a simple and compact two-element transducer. 2017 , 111, 094101		40
98	Circulating tumor cells in prostate cancer: Precision diagnosis and therapy. 2017 , 14, 1223-1232		21
97	Localization of low-abundant cancer cells in a sharply expanded microfluidic step-channel using dielectrophoresis. 2017 , 11, 054114		8
96	Huygens-Fresnel Acoustic Interference and the Development of Robust Time-Averaged Patterns from Traveling Surface Acoustic Waves. 2017 , 118, 154501		37
95	Microtechnology for Cell Manipulation and Sorting. 2017 ,		14
94	Acoustic Cell Manipulation. 2017 , 129-173		9
93	A rapid and meshless analytical model of acoustofluidic pressure fields for waveguide design. 2018 , 12, 024104		9
92	Whole-blood sorting, enrichment and in situ immunolabeling of cellular subsets using acoustic microstreaming. 2018 , 4,		38
91	Cellular dielectrophoresis coupled with single-cell analysis. 2018 , 410, 2499-2515		28
90	An improved bulk acoustic waves chip based on a PDMS bonding layer for high-efficient particle enrichment. 2018 , 22, 1		6
89	A Novel Macroscale Acoustic Device for Blood Filtration. 2018 , 12, 0110081-110087		1

88	Acoustofluidic separation: impact of microfluidic system design and of sample properties. 2018 , 22, 1	5
87	High-Throughput Isolation of Circulating Tumor Cells Using Cascaded Inertial Focusing Microfluidic Channel. <i>Analytical Chemistry</i> , 2018 , 90, 4397-4405	7.8 49
86	On-demand acoustic droplet splitting and steering in a disposable microfluidic chip. 2018 , 18, 422-432	39
85	A high-efficiency micromixing effect by pulsed AC electrothermal flow. 2018 , 37, 418-431	4
84	Separation efficiency maximization in acoustofluidic systems: study of the sample launch-position.. 2018 , 8, 38955-38964	2
83	Resonance control of acoustic focusing systems through an environmental reference table and impedance spectroscopy. 2018 , 13, e0207532	4
82	Key Enabling Technologies for Point-of-Care Diagnostics. 2018 , 18,	45
81	A Microfluidic Device for Simultaneous Extraction of Plasma, Red Blood Cells, and On-Chip White Blood Cell Trapping. 2018 , 8, 15345	31
80	Recent advances in microfluidic technology for manipulation and analysis of biological cells (2007-2017). 2018 , 1044, 29-65	47
79	Augmented longitudinal acoustic trap for scalable microparticle enrichment. 2018 , 12, 034110	5
78	Ultrasound-based cell sorting with microbubbles: A feasibility study. 2018 , 144, 41	3
77	Size-amplified acoustofluidic separation of circulating tumor cells with removable microbeads. 2018 , 2, 025004	12
76	Design of a Novel MEMS Microgripper with Rotatory Electrostatic Comb-Drive Actuators for Biomedical Applications. 2018 , 18,	23
75	Bulk-driven acoustic streaming at resonance in closed microcavities. 2019 , 100, 023104	12
74	Acoustophoretic rapid media exchange and continuous-flow electrotransfection of primary human T cells for applications in automated cellular therapy manufacturing. 2019 , 19, 2978-2992	12
73	Acoustofluidic methods in cell analysis. 2019 , 117, 280-290	27
72	Multifunctional Hybrid Magnetic Microgel Synthesis for Immune-Based Isolation and Post-Isolation Culture of Tumor Cells. 2019 , 11, 24945-24958	10
71	Cancer marker-free enrichment and direct mutation detection in rare cancer cells by combining multi-property isolation and microfluidic concentration. 2019 , 19, 757-766	9

70	Acoustophoresis-based biomedical device applications. 2019 , 123-144		1
69	Microfluidics for studying metastatic patterns of lung cancer. 2019 , 17, 71		37
68	Wave number-spiral acoustic tweezers for dynamic and reconfigurable manipulation of particles and cells. 2019 , 5, eaau6062		98
67	Acoustofluidic separation of cells and particles. 2019 , 5, 32		143
66	Relocation of coflowing immiscible liquids under acoustic field in a microchannel. 2019 , 125, 54002		9
65	Acoustofluidic Blood Component Sample Preparation and Processing in Medical Applications. 2019 , 1-25		1
64	Liquid Biopsy in Solid Malignancy. 2019 , 23, 284-296		10
63	High-throughput electrical position detection of single flowing particles/cells with non-spherical shape. 2019 , 19, 1818-1827		19
62	Differential impedance spectra analysis reveals optimal actuation frequency in bulk mode acoustophoresis. 2019 , 9, 19081		5
61	The acoustofluidic focusing and separation of rare tumor cells using transparent lithium niobate transducers. 2019 , 19, 3922-3930		10
60	Circulating tumor cells in precision oncology: clinical applications in liquid biopsy and 3D organoid model. 2019 , 19, 341		43
59	Applications of Acoustofluidics in Bioanalytical Chemistry. <i>Analytical Chemistry</i> , 2019 , 91, 757-767	7.8	52
58	Parallel Label-Free Isolation of Cancer Cells Using Arrays of Acoustic Microstreaming Traps. 2019 , 4, 1800374		22
57	Acoustic manipulation of particles in a cylindrical cavity: Theoretical and experimental study on the effects of boundary conditions. 2019 , 93, 18-25		14
56	Acoustophoretic purification of platelets: feasibility and impact on platelet activation and function. 2019 , 30, 174-180		2
55	Acoustic Microfluidic Separation Techniques and Bioapplications: A Review. 2020 , 11,		21
54	Antibody Conjugate Assembly on Ultrasound-Confined Microcarrier Particles. 2020 , 6, 6108-6116		6
53	Label-free Separation of Circulating Tumor Cells Using a Self-Amplified Inertial Focusing (SAIF) Microfluidic Chip. <i>Analytical Chemistry</i> , 2020 , 92, 16170-16179	7.8	9

52	Generating multifunctional acoustic tweezers in Petri dishes for contactless, precise manipulation of bioparticles. 2020 , 6,		29
51	Comparison of numerical models for bulk and surface acoustic wave-induced acoustophoresis in a microchannel. 2020 , 135, 1		2
50	Dexterous formation of unconventional Chladni patterns using standing bulk acoustic waves. 2020 , 117, 184101		5
49	Acoustic Microfluidics. 2020 , 13, 17-43		59
48	Acoustofluidic microdevice for precise control of pressure nodal positions. 2020 , 24, 1		1
47	Microfluidic-based cancer cell separation using active and passive mechanisms. 2020 , 24, 1		17
46	Numerical simulation of continuous separation of microparticles in two-stage acousto-microfluidic systems. 2020 , 83, 342-356		3
45	Two-dimensional concentration of microparticles using bulk acousto-microfluidics. 2020 , 116, 033104		7
44	Microfluidic Platform for the Isolation of Cancer-Cell Subpopulations Based on Single-Cell Glycolysis. <i>Analytical Chemistry</i> , 2020 , 92, 6949-6957	7.8	3
43	Ultrasound-induced molecular delivery to erythrocytes using a microfluidic system. 2020 , 14, 024114		8
42	Acoustophoresis Enables the Label-Free Separation of Functionally Different Subsets of Cultured Bone Marrow Stromal Cells. 2021 , 99, 476-487		9
41	Motile cells as probes for characterizing acoustofluidic devices. 2021 , 21, 521-533		7
40	Combined acoustic relocation and acoustophoretic migration for particle transfer between co-flowing fluids in a microchannel. 2021 , 6,		2
39	Controlled Manipulation and Active Sorting of Particles Inside Microfluidic Chips Using Bulk Acoustic Waves and Machine Learning. 2021 , 37, 4192-4199		10
38	High-throughput Double-mode Ultrasonic Micro-separator Based on 2D Normal Mode. 2021 , 64, 496-502		1
37	Theory and simulation of electroosmotic suppression of acoustic streaming. 2021 , 149, 3917		1
36	Detection of circulating tumor cells and single cell extraction technology: principle, effect and application prospect. 2021 , 5, 032002		1
35	Acoustic tweezer with complex boundary-free trapping and transport channel controlled by shadow waveguides. 2021 , 7,		7

34	Dynamic measurement of the acoustic streaming time constant utilizing an optical tweezer. 2021 , 104, 025104		0
33	Real-Time Detection and Control of Microchannel Resonance Frequency in Acoustic Trapping Systems by Monitoring Amplifier Supply Currents. 2021 , 6, 3765-3772		2
32	Acoustic tweezing of microparticles in microchannels with sinusoidal cross sections. 2021 , 11, 17902		3
31	Acoustic Cell Separation Based on Density and Mechanical Properties. 2020 , 142,		17
30	Focalization Performance Study of a Novel Bulk Acoustic Wave Device. 2021 , 11,		
29	Label-Free Isolation of Exosomes Using Microfluidic Technologies. 2021 ,		7
28	Reduced acoustic resonator dimensions improve focusing efficiency of bacteria and submicron particles. 2021 ,		1
27	Breast cancer circulating tumor cells with mesenchymal features-an unreachable target?. 2022 , 79, 81		3
26	Programmable motion control and trajectory manipulation of microparticles through tri-directional symmetrical acoustic tweezers.. 2022 ,		4
25	Acoustic radiation force and radiation torque beyond particles: Effects of nonspherical shape and Willis coupling.. 2021 , 104, 065003		3
24	Effect of microchannel protrusion on the bulk acoustic wave-induced acoustofluidics: numerical investigation.. 2021 , 24, 7		0
23	Enhancement of Acoustic Energy Density in Bulk-Wave-Acoustophoresis Devices Using Side Actuation. <i>Physical Review Applied</i> , 2022 , 17,	4.3	0
22	Research on excitation technology of high-throughput ultrasonic micro-separator based on micro-nano fabrication. <i>Advances in Mechanical Engineering</i> , 2022 , 14, 168781322210962	1.2	1
21	A sound approach to advancing healthcare systems: the future of biomedical acoustics. <i>Nature Communications</i> , 2022 , 13,	17.4	4
20	Developing a Multi-Sample Acoustofluidic Device for High-Throughput Cell Aggregation. <i>SSRN Electronic Journal</i> ,	1	
19	Applications of Microfluidics. 2022 , 15-50		1
18	Numerical Study on Separation of Circulating Tumor Cell Using Dielectrophoresis in a Four-Electrode Microfluidic Device. <i>Journal of Shanghai Jiaotong University (Science)</i> ,	0.6	
17	Numerical simulation of blood cell separation in an acoustofluidic system. <i>Chemical Papers</i> ,	1.9	

16	Recent advances in acoustofluidic separation technology in biology. 2022 , 8,	2
15	Biomarkers of gastric cancer: current advancement. 2022 , 8, e10899	0
14	New insights of liquid biopsy in ovarian cancer. 2022 , 5, 001-011	0
13	Willis Coupling-Induced Acoustic Radiation Force and Torque Reversal. 2022 , 129,	0
12	Label-free tumor cell screening based on IDO1-mediated tryptophan metabolism at single cell level. 2022 , 659, 114936	0
11	Recent advances in micro-/nanosstructure array integrated microfluidic devices for efficient separation of circulating tumor cells. 2022 , 12, 34892-34903	0
10	Toward Personalized Nanomedicine: The Critical Evaluation of Micro and Nanodevices for Cancer Biomarker Analysis in Liquid Biopsy. 2205856	0
9	Image-based cell sorting using focused travelling surface acoustic waves. 2023 , 23, 372-387	0
8	Label-free microfluidic cell sorting and detection for rapid blood analysis.	1
7	Recent progress on nanosstructure-based enrichment of circulating tumor cells and downstream analysis.	1
6	Transition from Boundary-Driven to Bulk-Driven Acoustic Streaming Due to Nonlinear Thermoviscous Effects at High Acoustic Energy Densities. 2023 , 130,	0
5	Microscale acoustic streaming for biomedical and bioanalytical applications. 2023 , 160, 116958	0
4	Label-Free Separation of Circulating Tumor Cells and Clusters by Alternating Frequency Acoustic Field in a Microfluidic Chip. 2023 , 24, 3338	0
3	Acoustofluidics ¶changing paradigm in tissue engineering, therapeutics development, and biosensing. 2023 , 23, 1300-1338	0
2	Modelling hybrid acoustofluidic devices for enhancing Nano- and Micro-Particle manipulation in microfluidics. 2023 , 205, 109258	0
1	Separation of Oil from an Oil/Water Mixed Drop under a Lamb Wave Field: A Review. 2023 , 10, 187	0