Peng Li

List of Publications by Year
in descending order

61	6,523	147801	138484
papers	citations	31 h-index	58 g-index

61	61	61	6280
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Surface acoustic wave microfluidics. Lab on A Chip, 2013, 13, 3626.	6.0	708
2	Isolation of exosomes from whole blood by integrating acoustics and microfluidics. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10584-10589.	7.1	633
3	Acoustic separation of circulating tumor cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4970-4975.	7.1	632
4	Acoustic tweezers for the life sciences. Nature Methods, 2018, 15, 1021-1028.	19.0	513
5	Three-dimensional manipulation of single cells using surface acoustic waves. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1522-1527.	7.1	448
6	Cell separation using tilted-angle standing surface acoustic waves. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12992-12997.	7.1	390
7	Controlling cellâ€“cell interactions using surface acoustic waves. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 43-48.	7.1	330
8	Rare cell isolation and analysis in microfluidics. Lab on A Chip, 2014, 14, 626.	6.0	273
9	Probing circulating tumor cells in microfluidics. Lab on A Chip, 2013, 13, 602.	6.0	156
10	A reliable and programmable acoustofluidic pump powered by oscillating sharp-edge structures. Lab on A Chip, 2014, 14, 4319-4323.	6.0	152
11	Rapid formation of size-controllable multicellular spheroids via 3D acoustic tweezers. Lab on A Chip, 2016, 16, 2636-2643.	6.0	147
12	Enriching Nanoparticles via Acoustofluidics. ACS Nano, 2017, 11, 603-612.	14.6	142
13	Digital acoustofluidics enables contactless and programmable liquid handling. Nature Communications, 2018, 9, 2928.	12.8	134
14	A high-throughput acoustic cell sorter. Lab on A Chip, 2015, 15, 3870-3879.	6.0	126
15	Circulating Tumor Cell Phenotyping via Highâ€Throughput Acoustic Separation. Small, 2018, 14, e1801131.	10.0	115
16	In Situ Fabrication of 3D Ag@ZnO Nanostructures for Microfluidic Surface-Enhanced Raman Scattering Systems. ACS Nano, 2014, 8, 12175-12184.	14.6	106
17	Acoustic Separation of Nanoparticles in Continuous Flow. Advanced Functional Materials, 2017, 27, 1606039.	14.9	106
18	Continuous enrichment of low-abundance cell samples using standing surface acoustic waves (SSAW). Lab on A Chip, 2014, 14, 924-930.	6.0	88

#	Article	IF	Citations
19	Standing surface acoustic wave (SSAW)-based cell washing. Lab on A Chip, 2015, 15, 331-338.	6.0	85
20	Applications of Acoustofluidics in Bioanalytical Chemistry. Analytical Chemistry, 2019, 91, 757-767.	6.5	84
21	Standing Surface Acoustic Wave (SSAW)â€Based Fluorescenceâ€Activated Cell Sorter. Small, 2018, 14, e1801996.	10.0	83
22	Standing Surface Acoustic Wave Based Cell Coculture. Analytical Chemistry, 2014, 86, 9853-9859.	6.5	78
23	Harmonic acoustics for dynamic and selective particle manipulation. Nature Materials, 2022, 21, 540-546.	27.5	66
24	Probing cellâ€“cell communication with microfluidic devices. Lab on A Chip, 2013, 13, 3152.	6.0	65
25	Probing Cell Deformability via Acoustically Actuated Bubbles. Small, 2016, 12, 902-910.	10.0	60
26	Microfluidic Isolation and Enrichment of Nanoparticles. ACS Nano, 2020, 14, 16220-16240.	14.6	59
27	Sub-micrometer-precision, three-dimensional (3D) hydrodynamic focusing via â€œmicrofluidic driftingâ€• Lab on A Chip, 2014, 14, 415-423.	6.0	52
28	An acoustofluidic sputum liquefier. Lab on A Chip, 2015, 15, 3125-3131.	6.0	51
29	Precise Manipulation and Patterning of Protein Crystals for Macromolecular Crystallography Using Surface Acoustic Waves. Small, 2015, 11, 2733-2737.	10.0	49
30	A spatiotemporally controllable chemical gradient generator via acoustically oscillating sharp-edge structures. Lab on A Chip, 2015, 15, 4166-4176.	6.0	49
31	A sharp-edge-based acoustofluidic chemical signal generator. Lab on A Chip, 2018, 18, 1411-1421.	6.0	48
32	Vibrating Sharpâ€edge Spray Ionization (VSSI) for voltageâ€free direct analysis of samples using mass spectrometry. Rapid Communications in Mass Spectrometry, 2021, 35, e8232.	1.5	37
33	Capillary Vibrating Sharp-Edge Spray Ionization (cVSSI) for Voltage-Free Liquid Chromatography-Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2019, 30, 824-831.	2.8	33
34	A microfluidic localized, multiple cell culture array using vacuum actuated cell seeding: integrated anticancer drug testing. Biomedical Microdevices, 2013, 15, 907-915.	2.8	32
35	Acoustic Cell Separation Based on Density and Mechanical Properties. Journal of Biomechanical Engineering, 2020, 142, .	1.3	31
36	Multiparameter Cell Affinity Chromatography: Separation and Analysis in a Single Microfluidic Channel. Analytical Chemistry, 2012, 84, 8140-8148.	6.5	29

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37	Comparison of Inlet Geometry in Microfluidic Cell Affinity Chromatography. Analytical Chemistry, 2011, 83, 774-781.	6.5	28
38	Negative Enrichment of Target Cells by Microfluidic Affinity Chromatography. Analytical Chemistry, 2011, 83, 7863-7869.	6.5	28
39	Acoustofluidic coating of particles and cells. Lab on A Chip, 2016, 16, 4366-4372.	6.0	27
40	Polydopamine-Modified Substrates for High-Sensitivity Laser Desorption Ionization Mass Spectrometry Imaging. ACS Applied Materials & Interfaces, 2019, 11, 46140-46148.	8.0	25
41	Facile Improvement of Negative Ion Mode Electrospray Ionization Using Capillary Vibrating Sharp-Edge Spray Ionization. Analytical Chemistry, 2020, 92, 2492-2502.	6.5	23
42	Composable Microfluidic Plates (cPlate): A Simple and Scalable Fluid Manipulation System for Multiplexed Enzyme-Linked Immunosorbent Assay (ELISA). Analytical Chemistry, 2021, 93, 1489-1497.	6.5	23
43	Acoustofluidic enzyme-linked immunosorbent assay (ELISA) platform enabled by coupled acoustic streaming. Analytica Chimica Acta, 2019, 1079, 129-138.	5.4	22
44	A portable droplet generation system for ultra-wide dynamic range digital PCR based on a vibrating sharp-tip capillary. Biosensors and Bioelectronics, 2021, 191, 113458.	10.1	22
45	Evaluating nanomedicine with microfluidics. Nanotechnology, 2018, 29, 492001.	2.6	21
46	Immunological Analyses of Whole Blood via â€œMicrofluidic Driftingâ€•Based Flow Cytometric Chip. Annals of Biomedical Engineering, 2014, 42, 2303-2313.	2.5	14
47	One-step enzyme kinetics measurement in 3D printed microfluidics devices based on a high-performance single vibrating sharp-tip mixer. Analytica Chimica Acta, 2021, 1172, 338677.	5.4	14
48	Low Flow Voltage Free Interface for Capillary Electrophoresis and Mass Spectrometry Driven by Vibrating Sharp-Edge Spray Ionization. Analytical Chemistry, 2020, 92, 3006-3013.	6.5	12
49	Differential Mobility Cytometry. Analytical Chemistry, 2009, 81, 3334-3343.	6.5	11
50	Rapid Solution-Phase Hydrogen/Deuterium Exchange for Metabolite Compound Identification. Journal of the American Society for Mass Spectrometry, 2019, 30, 1102-1114.	2.8	11
51	Combining Field-Enabled Capillary Vibrating Sharp-Edge Spray Ionization with Microflow Liquid Chromatography and Mass Spectrometry to Enhance â€˜Omics Analyses. Journal of the American Society for Mass Spectrometry, 2021, 32, 473-485.	2.8	11
52	Characterizing Multidevice Capillary Vibrating Sharp-Edge Spray Ionization for In-Droplet Hydrogen/Deuterium Exchange to Enhance Compound Identification. ACS Omega, 2021, 6, 18370-18382.	3.5	8
53	Physicochemical Property Correlations with Ionization Efficiency in Capillary Vibrating Sharp-Edge Spray Ionization (cVSSI). Journal of the American Society for Mass Spectrometry, 2021, 32, 84-94.	2.8	7
54	A Small Footprint and Robust Interface for Solid Phase Microextraction and Mass Spectrometry Based on Vibrating Sharp-Edge Spray Ionization. Journal of the American Society for Mass Spectrometry, 2022, 33, 304-314.	2.8	7

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55	Direct analysis of surface chemicals using vibrating sharpâ€edge spray ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2020, 34, e8902.	1.5	5
56	Development of cVSSI-APCI for the Improvement of Ion Suppression and Matrix Effects in Complex Mixtures. Analytical Chemistry, 0, , .	6.5	4
57	Oxidation Promotes Distinct Huntingtin Aggregates in the Presence and Absence of Membranes. Biochemistry, 2022, 61, 1517-1530.	2.5	4
58	Integrated sample desalting, enrichment, and ionization on an omniphobic glass slide for direct mass spectrometry analysis. Rapid Communications in Mass Spectrometry, 2021, 35, e9179.	1.5	3
59	Lab-on-a-chip Technologies Enabled by Surface Acoustic Waves. , 2014, , 354-398.		1
60	Chapter 5. Manipulation of Micro-/Nano-Objects via Surface Acoustic Waves. RSC Detection Science, 2014, , 136-152.	0.0	1
61	Rapid and flexible onâ€line desalting using Nafion coated melamine sponge for mass spectrometry analysis. Rapid Communications in Mass Spectrometry, 0, , .	1.5	1