Peng Li

List of Publications by Year
in descending order

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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	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
2	Harmonic acoustics for dynamic and selective particle manipulation. Nature Materials, 2022, 21, 540-546.	27.5	66
3	Oxidation Promotes Distinct Huntingtin Aggregates in the Presence and Absence of Membranes. Biochemistry, 2022, 61, 1517-1530.	2.5	4
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	Microfluidic Isolation and Enrichment of Nanoparticles. ACS Nano, 2020, 14, 16220-16240.	14.6	59
13	Direct analysis of surface chemicals using vibrating sharpâ€edge spray ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2020, 34, e8902.	1.5	5
14	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
15	Facile Improvement of Negative Ion Mode Electrospray Ionization Using Capillary Vibrating Sharp-Edge Spray Ionization. Analytical Chemistry, 2020, 92, 2492-2502.	6.5	23
16	Acoustic Cell Separation Based on Density and Mechanical Properties. Journal of Biomechanical Engineering, 2020, 142, .	1.3	31
17	Acoustofluidic enzyme-linked immunosorbent assay (ELISA) platform enabled by coupled acoustic streaming. Analytica Chimica Acta, 2019, 1079, 129-138.	5.4	22
18	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

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19	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
20	Polydopamine-Modified Substrates for High-Sensitivity Laser Desorption Ionization Mass Spectrometry Imaging. ACS Applied Materials & Interfaces, 2019, 11, 46140-46148.	8.0	25
21	Applications of Acoustofluidics in Bioanalytical Chemistry. Analytical Chemistry, 2019, 91, 757-767.	6.5	84
22	A sharp-edge-based acoustofluidic chemical signal generator. Lab on A Chip, 2018, 18, 1411-1421.	6.0	48
23	Acoustic tweezers for the life sciences. Nature Methods, 2018, 15, 1021-1028.	19.0	513
24	Evaluating nanomedicine with microfluidics. Nanotechnology, 2018, 29, 492001.	2.6	21
25	Standing Surface Acoustic Wave (SSAW)â€Based Fluorescenceâ€Activated Cell Sorter. Small, 2018, 14, e1801996.	10.0	83
26	Circulating Tumor Cell Phenotyping via Highâ€Throughput Acoustic Separation. Small, 2018, 14, e1801131.	10.0	115
27	Digital acoustofluidics enables contactless and programmable liquid handling. Nature Communications, 2018, 9, 2928.	12.8	134
28	Enriching Nanoparticles via Acoustofluidics. ACS Nano, 2017, 11, 603-612.	14.6	142
29	Acoustic Separation of Nanoparticles in Continuous Flow. Advanced Functional Materials, 2017, 27, 1606039.	14.9	106
30	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
31	Probing Cell Deformability via Acoustically Actuated Bubbles. Small, 2016, 12, 902-910.	10.0	60
32	Acoustofluidic coating of particles and cells. Lab on A Chip, 2016, 16, 4366-4372.	6.0	27
33	Rapid formation of size-controllable multicellular spheroids via 3D acoustic tweezers. Lab on A Chip, 2016, 16, 2636-2643.	6.0	147
34	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
35	Standing surface acoustic wave (SSAW)-based cell washing. Lab on A Chip, 2015, 15, 331-338.	6.0	85
36	A high-throughput acoustic cell sorter. Lab on A Chip, 2015, 15, 3870-3879.	6.0	126

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37	Precise Manipulation and Patterning of Protein Crystals for Macromolecular Crystallography Using Surface Acoustic Waves. Small, 2015, 11, 2733-2737.	10.0	49
38	An acoustofluidic sputum liquefier. Lab on A Chip, 2015, 15, 3125-3131.	6.0	51
39	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
40	A spatiotemporally controllable chemical gradient generator via acoustically oscillating sharp-edge structures. Lab on A Chip, 2015, 15, 4166-4176.	6.0	49
41	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
42	Lab-on-a-chip Technologies Enabled by Surface Acoustic Waves. , 2014, , 354-398.		1
43	Chapter 5. Manipulation of Micro-/Nano-Objects via Surface Acoustic Waves. RSC Detection Science, 2014, , 136-152.	0.0	1
44	Rare cell isolation and analysis in microfluidics. Lab on A Chip, 2014, 14, 626.	6.0	273
45	Continuous enrichment of low-abundance cell samples using standing surface acoustic waves (SSAW). Lab on A Chip, 2014, 14, 924-930.	6.0	88
46	A reliable and programmable acoustofluidic pump powered by oscillating sharp-edge structures. Lab on A Chip, 2014, 14, 4319-4323.	6.0	152
47	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
48	In Situ Fabrication of 3D Ag@ZnO Nanostructures for Microfluidic Surface-Enhanced Raman Scattering Systems. ACS Nano, 2014, 8, 12175-12184.	14.6	106
49	Sub-micrometer-precision, three-dimensional (3D) hydrodynamic focusing via â€œmicrofluidic driftingâ€• Lab on A Chip, 2014, 14, 415-423.	6.0	52
50	Standing Surface Acoustic Wave Based Cell Coculture. Analytical Chemistry, 2014, 86, 9853-9859.	6.5	78
51	Immunological Analyses of Whole Blood via â€œMicrofluidic Driftingâ€•Based Flow Cytometric Chip. Annals of Biomedical Engineering, 2014, 42, 2303-2313.	2.5	14
52	Probing cellâ€“cell communication with microfluidic devices. Lab on A Chip, 2013, 13, 3152.	6.0	65
53	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
54	Surface acoustic wave microfluidics. Lab on A Chip, 2013, 13, 3626.	6.0	708

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55	Probing circulating tumor cells in microfluidics. Lab on A Chip, 2013, 13, 602.	6.0	156
56	Multiparameter Cell Affinity Chromatography: Separation and Analysis in a Single Microfluidic Channel. Analytical Chemistry, 2012, 84, 8140-8148.	6.5	29
57	Comparison of Inlet Geometry in Microfluidic Cell Affinity Chromatography. Analytical Chemistry, 2011, 83, 774-781.	6.5	28
58	Negative Enrichment of Target Cells by Microfluidic Affinity Chromatography. Analytical Chemistry, 2011, 83, 7863-7869.	6.5	28
59	Differential Mobility Cytometry. Analytical Chemistry, 2009, 81, 3334-3343.	6.5	11
60	Development of cVSSI-APCI for the Improvement of Ion Suppression and Matrix Effects in Complex Mixtures. Analytical Chemistry, 0, , .	6.5	4
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