Sifeng Mao

List of Publications by Year
in descending order

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68 papers	1,783 citations	201575 27 h-index	302012 39 g-index
68 all docs	68 docs citations	68 times ranked	1956 citing authors

#	Article	IF	Citations
1	Imitation of drug metabolism in human liver and cytotoxicity assay using a microfluidic device coupled to mass spectrometric detection. Lab on A Chip, 2012, 12, 219-226.	3.1	91
2	Strategy for Signaling Molecule Detection by Using an Integrated Microfluidic Device Coupled with Mass Spectrometry to Study Cell-to-Cell Communication. Analytical Chemistry, 2013, 85, 868-876.	3.2	87
3	Inâ€...Situ Scatheless Cell Detachment Reveals Correlation between Adhesion Strength and Viability at Singleâ€€Cell Resolution. Angewandte Chemie - International Edition, 2018, 57, 236-240.	7.2	78
4	Dean flow assisted cell ordering system for lipid profiling in single-cells using mass spectrometry. Chemical Communications, 2018, 54, 2595-2598.	2.2	71
5	Single-cell assay on microfluidic devices. Analyst, The, 2019, 144, 808-823.	1.7	60
6	Rare cell chemiluminescence detection based on aptamer-specific capture in microfluidic channels. Biosensors and Bioelectronics, 2011, 28, 438-442.	5.3	55
7	Inkjet Nanoinjection for High-Thoughput Chemiluminescence Immunoassay on Multicapillary Glass Plate. Analytical Chemistry, 2013, 85, 7413-7418.	3.2	54
8	Emerging open microfluidics for cell manipulation. Chemical Society Reviews, 2021, 50, 5333-5348.	18.7	54
9	Cell Signaling Analysis by Mass Spectrometry under Coculture Conditions on an Integrated Microfluidic Device. Analytical Chemistry, 2011, 83, 9306-9313.	3.2	51
10	Multi-channel microfluidic chip-mass spectrometry platform for cell analysis. Chinese Chemical Letters, 2017, 28, 1625-1630.	4.8	49
11	Multi-DNAzymes-functionalized gold nanoparticles for ultrasensitive chemiluminescence detection of thrombin on microchip. Analytica Chimica Acta, 2018, 1027, 76-82.	2.6	48
12	A dual-functional microfluidic chip for on-line detection of interleukin-8 based on rolling circle amplification. Biosensors and Bioelectronics, 2018, 102, 652-660.	5.3	48
13	Single-cell identification by microfluidic-based in situ extracting and online mass spectrometric analysis of phospholipids expression. Chemical Science, 2020, 11, 253-256.	3.7	46
14	Combination Stiffness Gradient with Chemical Stimulation Directs Glioma Cell Migration on a Microfluidic Chip. Analytical Chemistry, 2020, 92, 892-898.	3.2	46
15	Controllable Synthesis of Multicompartmental Particles Using 3D Microfluidics. Angewandte Chemie - International Edition, 2020, 59, 2225-2229.	7.2	45
16	Adhesion analysis of single circulating tumor cells on a base layer of endothelial cells using open microfluidics. Chemical Science, 2018, 9, 7694-7699.	3.7	44
17	Cell analysis on chip-mass spectrometry. TrAC - Trends in Analytical Chemistry, 2018, 107, 43-59.	5.8	40
18	Online Analysis of Drug Toxicity to Cells with Shear Stress on an Integrated Microfluidic Chip. ACS Sensors, 2019, 4, 521-527.	4.0	39

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19	Quantitative determination of VEGF165 in cell culture medium by aptamer sandwich based chemiluminescence assay. Talanta, 2017, 171, 197-203.	2.9	38
20	Shear Stress-Enhanced Internalization of Cell Membrane Proteins Indicated by a Hairpin-Type DNA Probe. Analytical Chemistry, 2018, 90, 5540-5545.	3.2	35
21	Development and applications of paper-based electrospray ionization-mass spectrometry for monitoring of sequentially generated droplets. Analyst, The, 2013, 138, 2163.	1.7	33
22	Reconstituting Glioma Perivascular Niches on a Chip for Insights into Chemoresistance of Glioma. Analytical Chemistry, 2018, 90, 10326-10333.	3.2	31
23	Multifunctional Regulation of 3D Cell-Laden Microsphere Culture on an Integrated Microfluidic Device. Analytical Chemistry, 2019, 91, 12283-12289.	3.2	31
24	Chemical operations on a living single cell by open microfluidics for wound repair studies and organelle transport analysis. Chemical Science, 2019, 10, 2081-2087.	3.7	31
25	Evaluation of drug combination for glioblastoma based on an intestineâ€“liver metabolic model on microchip. Analyst, The, 2017, 142, 3629-3638.	1.7	30
26	Microfluidic Devices in the Fastâ€Growing Domain of Singleâ€Cell Analysis. Chemistry - A European Journal, 2018, 24, 15398-15420.	1.7	30
27	Realâ€Time Imaging of Ammonia Release from Single Live Cells via Liquid Crystal Droplets Immobilized on the Cell Membrane. Advanced Science, 2019, 6, 1900778.	5.6	30
28	Measurement of Cellâ€“Matrix Adhesion at Single-Cell Resolution for Revealing the Functions of Biomaterials for Adherent Cell Culture. Analytical Chemistry, 2018, 90, 9637-9643.	3.2	27
29	Alteration of intracellular metabolome in osteosarcoma stem cells revealed by liquid chromatography-tandem mass spectrometry. Talanta, 2019, 204, 6-12.	2.9	23
30	In Situ Partial Treatment of Single Cells by Laminar Flow in the â€œOpen Spaceâ€• Analytical Chemistry, 2019, 91, 1644-1650.	3.2	23
31	An open-space microfluidic chip with fluid walls for online detection of VEGF via rolling circle amplification. Chemical Science, 2019, 10, 8571-8576.	3.7	22
32	Advances in tumor-endothelial cells co-culture and interaction on microfluidics. Journal of Pharmaceutical Analysis, 2018, 8, 210-218.	2.4	21
33	Online monodisperse droplets based liquidâ€“liquid extraction on a continuously flowing system by using microfluidic devices. RSC Advances, 2014, 4, 11919.	1.7	19
34	A reversibly electro-controllable polymer brush for electro-switchable friction. Journal of Materials Chemistry C, 2017, 5, 5877-5881.	2.7	19
35	DNA-Mediated rolling circle amplification for ultrasensitive detection of thrombin using MALDI-TOF mass spectrometry. Chemical Communications, 2018, 54, 11546-11549.	2.2	19
36	A Fluidic Isolation-Assisted Homogeneous-Flow-Pressure Chip-Solid Phase Extraction-Mass Spectrometry System for Online Dynamic Monitoring of 25-Hydroxyvitamin D₃ Biotransformation in Cells. Analytical Chemistry, 2021, 93, 2273-2280.	3.2	19

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37	Near-physiological microenvironment simulation on chip to evaluate drug resistance of different loci in tumour mass. Talanta, 2019, 191, 67-73.	2.9	18
38	Microfluidic adhesion analysis of single glioma cells for evaluating the effect of drugs. Science China Chemistry, 2020, 63, 865-870.	4.2	18
39	The pathological structure of the perivascular niche in different microvascular patterns of glioblastoma. PLoS ONE, 2017, 12, e0182183.	1.1	18
40	Inkjet printing based assembly of thermoresponsive coreâ€“shell polymer microcapsules for controlled drug release. Journal of Materials Chemistry B, 2016, 4, 4156-4163.	2.9	17
41	Generation of controlled monodisperse porous polymer particles by dipped inkjet injection. RSC Advances, 2015, 5, 7297-7303.	1.7	16
42	Controlled grafted poly(quaternized-4-vinylpyridine-co-acrylic acid) brushes attract bacteria for effective antimicrobial surfaces. Journal of Materials Chemistry B, 2018, 6, 3782-3791.	2.9	15
43	Responses of Cellular Adhesion Strength and Stiffness to Fluid Shear Stress during Tumor Cell Rolling Motion. ACS Sensors, 2019, 4, 1710-1715.	4.0	15
44	Comparative proteomics of cancer stem cells in osteosarcoma using ultra-high-performance liquid chromatography and Orbitrap Fusion mass spectrometer. Talanta, 2018, 178, 362-368.	2.9	14
45	Homogenous deposition of matrixâ€“analyte cocrystals on gold-nanobowl arrays for improving MALDI-MS signal reproducibility. Chemical Communications, 2019, 55, 2166-2169.	2.2	14
46	A microfluidic photolithography for controlled encapsulation of single cells inside hydrogel microstructures. Science China Chemistry, 2012, 55, 494-501.	4.2	13
47	The use of an inkjet injection technique in immunoassays by quantitative on-line electrophoretically mediated microanalysis. Journal of Chromatography A, 2016, 1477, 127-131.	1.8	13
48	Chip-based SALDI-MS for rapid determination of intracellular ratios of glutathione to glutathione disulfide. Science China Chemistry, 2019, 62, 142-150.	4.2	12
49	Writing of nanowires via high viscosity-induced nano diffusive layer. Journal of Materials Chemistry C, 2017, 5, 11666-11671.	2.7	11
50	A chemo-mechanical switch for controllable water transportation based on a thermally responsive block copolymer. Chemical Communications, 2014, 50, 10265-10268.	2.2	10
51	Microchemical Pen: An Open Microreactor for Regionâ€Selective Surface Modification. ChemPhysChem, 2016, 17, 3155-3159.	1.0	10
52	Controllable Synthesis of Multicompartmental Particles Using 3D Microfluidics. Angewandte Chemie, 2020, 132, 2245-2249.	1.6	10
53	In Situ Single-Cell Stimulation and Real-Time Electrochemical Detection of Lactate Response Using a Microfluidic Probe. Analytical Chemistry, 2021, 93, 8680-8686.	3.2	10
54	Combination of nano-material enrichment and dead-end filtration for uniform and rapid sample preparation in matrix-assisted laser desorption/ionization mass spectrometry. Talanta, 2018, 181, 217-223.	2.9	9

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55	Selective Fabrication of Nanowires with High Aspect Ratios Using a Diffusion Mixing Reaction System for Applications in Temperature Sensing. Analytical Chemistry, 2019, 91, 7346-7352.	3.2	9
56	Convectionâ€Diffusion Layer in an â€œOpen Spaceâ€•for Local Surface Treatment and Microfabrication using a Fourâ€Aperture Microchemical Pen. ChemPhysChem, 2017, 18, 2357-2363.	1.0	6
57	Inâ€…Situ Scatheless Cell Detachment Reveals Correlation between Adhesion Strength and Viability at Singleâ€Cell Resolution. Angewandte Chemie, 2018, 130, 242-246.	1.6	6
58	Inhibition of anaerobic probiotics on colorectal cancer cells using intestinal microfluidic systems. Science China Chemistry, 2018, 61, 1034-1042.	4.2	6
59	Cell Heterogeneity Revealed by On-Chip Angiogenic Endothelial Cell Migration. ACS Omega, 2020, 5, 3857-3862.	1.6	6
60	A chemo-mechanical switchable valve on microfluidic chip based on a thermally responsive block copolymer. Chinese Chemical Letters, 2022, 33, 3083-3086.	4.8	6
61	Elaborately programmed nanowires fabricated using a tapered pushâ€“pull nozzle system. Chemical Communications, 2018, 54, 719-722.	2.2	6
62	In Situ Monitoring of Fluid Shear Stress Enhanced Adherence of Bacteria to Cancer Cells on Microfluidic Chip. Analytical Chemistry, 2019, 91, 5973-5979.	3.2	3
63	Reversibly Switching Molecular Spectra. ACS Applied Materials & Interfaces, 2018, 10, 23247-23253.	4.0	2
64	Local surface modification at precise position using a chemical pen. Talanta, 2018, 187, 246-251.	2.9	1
65	Proteomic Distributions in CD34+ Microvascular Niche Patterns of Glioblastoma. Journal of Histochemistry and Cytochemistry, 2022, 70, 99-110.	1.3	1
66	Regioselective fabrication of gold nanowires using open-space laminar flow for attomolar protein detection. Chemical Communications, 2022, 58, 4308-4311.	2.2	1
67	Frontispiece: Microfluidic Devices in the Fastâ€Growing Domain of Singleâ€Cell Analysis. Chemistry - A European Journal, 2018, 24, .	1.7	0
68	Microfluidic Chip-Based Live Single-Cell Probes. Integrated Analytical Systems, 2019, , 217-255.	0.4	0