

Sifeng Mao

List of Publications by Year in Descending Order

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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.

65
papers

1,249
citations

21
h-index

32
g-index

68
ext. papers

1,563
ext. citations

7.9
avg, IF

4.93
L-index

#	Paper	IF	Citations
65	Proteomic Distributions in CD34+ Microvascular Niche Patterns of Glioblastoma. <i>Journal of Histochemistry and Cytochemistry</i> , 2021 , 221554211058098	3.4	0
64	Single-Cell Stimulation and Real-Time Electrochemical Detection of Lactate Response Using a Microfluidic Probe. <i>Analytical Chemistry</i> , 2021 , 93, 8680-8686	7.8	1
63	Emerging open microfluidics for cell manipulation. <i>Chemical Society Reviews</i> , 2021 , 50, 5333-5348	58.5	14
62	A Fluidic Isolation-Assisted Homogeneous-Flow-Pressure Chip-Solid Phase Extraction-Mass Spectrometry System for Online Dynamic Monitoring of 25-Hydroxyvitamin D Biotransformation in Cells. <i>Analytical Chemistry</i> , 2021 , 93, 2273-2280	7.8	5
61	Cell Heterogeneity Revealed by On-Chip Angiogenic Endothelial Cell Migration. <i>ACS Omega</i> , 2020 , 5, 3857-3862	3.9	3
60	Controllable Synthesis of Multicompartmental Particles Using 3D Microfluidics. <i>Angewandte Chemie</i> , 2020 , 132, 2245-2249	3.6	9
59	Controllable Synthesis of Multicompartmental Particles Using 3D Microfluidics. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2225-2229	16.4	20
58	Combination Stiffness Gradient with Chemical Stimulation Directs Glioma Cell Migration on a Microfluidic Chip. <i>Analytical Chemistry</i> , 2020 , 92, 892-898	7.8	17
57	Microfluidic adhesion analysis of single glioma cells for evaluating the effect of drugs. <i>Science China Chemistry</i> , 2020 , 63, 865-870	7.9	6
56	Multifunctional Regulation of 3D Cell-Laden Microsphere Culture on an Integrated Microfluidic Device. <i>Analytical Chemistry</i> , 2019 , 91, 12283-12289	7.8	10
55	Real-Time Imaging of Ammonia Release from Single Live Cells via Liquid Crystal Droplets Immobilized on the Cell Membrane. <i>Advanced Science</i> , 2019 , 6, 1900778	13.6	18
54	Online Analysis of Drug Toxicity to Cells with Shear Stress on an Integrated Microfluidic Chip. <i>ACS Sensors</i> , 2019 , 4, 521-527	9.2	28
53	Homogenous deposition of matrix-analyte cocrystals on gold-nanobowl arrays for improving MALDI-MS signal reproducibility. <i>Chemical Communications</i> , 2019 , 55, 2166-2169	5.8	9
52	Chemical operations on a living single cell by open microfluidics for wound repair studies and organelle transport analysis. <i>Chemical Science</i> , 2019 , 10, 2081-2087	9.4	22
51	Alteration of intracellular metabolome in osteosarcoma stem cells revealed by liquid chromatography-tandem mass spectrometry. <i>Talanta</i> , 2019 , 204, 6-12	6.2	13
50	Selective Fabrication of Nanowires with High Aspect Ratios Using a Diffusion Mixing Reaction System for Applications in Temperature Sensing. <i>Analytical Chemistry</i> , 2019 , 91, 7346-7352	7.8	5
49	Responses of Cellular Adhesion Strength and Stiffness to Fluid Shear Stress during Tumor Cell Rolling Motion. <i>ACS Sensors</i> , 2019 , 4, 1710-1715	9.2	8

48	In Situ Monitoring of Fluid Shear Stress Enhanced Adherence of Bacteria to Cancer Cells on Microfluidic Chip. <i>Analytical Chemistry</i> , 2019 , 91, 5973-5979	7.8	2
47	Chip-based SALDI-MS for rapid determination of intracellular ratios of glutathione to glutathione disulfide. <i>Science China Chemistry</i> , 2019 , 62, 142-150	7.9	8
46	Near-physiological microenvironment simulation on chip to evaluate drug resistance of different loci in tumour mass. <i>Talanta</i> , 2019 , 191, 67-73	6.2	10
45	An open-space microfluidic chip with fluid walls for online detection of VEGF rolling circle amplification. <i>Chemical Science</i> , 2019 , 10, 8571-8576	9.4	13
44	Microfluidic Chip-Based Live Single-Cell Probes. <i>Integrated Analytical Systems</i> , 2019 , 217-255	0.4	
43	Single-cell identification by microfluidic-based extracting and online mass spectrometric analysis of phospholipids expression. <i>Chemical Science</i> , 2019 , 11, 253-256	9.4	27
42	Single-cell assay on microfluidic devices. <i>Analyst, The</i> , 2019 , 144, 808-823	5	40
41	In Situ Partial Treatment of Single Cells by Laminar Flow in the "Open Space". <i>Analytical Chemistry</i> , 2019 , 91, 1644-1650	7.8	12
40	Dean flow assisted cell ordering system for lipid profiling in single-cells using mass spectrometry. <i>Chemical Communications</i> , 2018 , 54, 2595-2598	5.8	54
39	Combination of nano-material enrichment and dead-end filtration for uniform and rapid sample preparation in matrix-assisted laser desorption/ionization mass spectrometry. <i>Talanta</i> , 2018 , 181, 217-223	6.2	6
38	Microfluidic Devices in the Fast-Growing Domain of Single-Cell Analysis. <i>Chemistry - A European Journal</i> , 2018 , 24, 15398-15420	4.8	21
37	Multi-DNAzymes-functionalized gold nanoparticles for ultrasensitive chemiluminescence detection of thrombin on microchip. <i>Analytica Chimica Acta</i> , 2018 , 1027, 76-82	6.6	32
36	Shear Stress-Enhanced Internalization of Cell Membrane Proteins Indicated by a Hairpin-Type DNA Probe. <i>Analytical Chemistry</i> , 2018 , 90, 5540-5545	7.8	23
35	Comparative proteomics of cancer stem cells in osteosarcoma using ultra-high-performance liquid chromatography and Orbitrap Fusion mass spectrometer. <i>Talanta</i> , 2018 , 178, 362-368	6.2	13
34	Reversibly Switching Molecular Spectra. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23247-23253	9.5	2
33	Cell analysis on chip-mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 107, 43-59	14.6	29
32	Advances in tumor-endothelial cells co-culture and interaction on microfluidics. <i>Journal of Pharmaceutical Analysis</i> , 2018 , 8, 210-218	14	13
31	Measurement of Cell-Matrix Adhesion at Single-Cell Resolution for Revealing the Functions of Biomaterials for Adherent Cell Culture. <i>Analytical Chemistry</i> , 2018 , 90, 9637-9643	7.8	18

30	Reconstituting Glioma Perivascular Niches on a Chip for Insights into Chemoresistance of Glioma. <i>Analytical Chemistry</i> , 2018 , 90, 10326-10333	7.8	22
29	Adhesion analysis of single circulating tumor cells on a base layer of endothelial cells using open microfluidics. <i>Chemical Science</i> , 2018 , 9, 7694-7699	9.4	36
28	Elaborately programmed nanowires fabricated using a tapered push-pull nozzle system. <i>Chemical Communications</i> , 2018 , 54, 719-722	5.8	5
27	A dual-functional microfluidic chip for on-line detection of interleukin-8 based on rolling circle amplification. <i>Biosensors and Bioelectronics</i> , 2018 , 102, 652-660	11.8	35
26	In Situ Scatheless Cell Detachment Reveals Correlation between Adhesion Strength and Viability at Single-Cell Resolution. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 236-240	16.4	64
25	In Situ Scatheless Cell Detachment Reveals Correlation between Adhesion Strength and Viability at Single-Cell Resolution. <i>Angewandte Chemie</i> , 2018 , 130, 242-246	3.6	6
24	DNA-Mediated rolling circle amplification for ultrasensitive detection of thrombin using MALDI-TOF mass spectrometry. <i>Chemical Communications</i> , 2018 , 54, 11546-11549	5.8	14
23	Controlled grafted poly(quaternized-4-vinylpyridine-co-acrylic acid) brushes attract bacteria for effective antimicrobial surfaces. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 3782-3791	7.3	11
22	Inhibition of anaerobic probiotics on colorectal cancer cells using intestinal microfluidic systems. <i>Science China Chemistry</i> , 2018 , 61, 1034-1042	7.9	4
21	Local surface modification at precise position using a chemical pen. <i>Talanta</i> , 2018 , 187, 246-251	6.2	1
20	Quantitative determination of VEGF165 in cell culture medium by aptamer sandwich based chemiluminescence assay. <i>Talanta</i> , 2017 , 171, 197-203	6.2	27
19	Multi-channel microfluidic chip-mass spectrometry platform for cell analysis. <i>Chinese Chemical Letters</i> , 2017 , 28, 1625-1630	8.1	37
18	A reversibly electro-controllable polymer brush for electro-switchable friction. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5877-5881	7.1	15
17	Evaluation of drug combination for glioblastoma based on an intestine-liver metabolic model on microchip. <i>Analyst</i> , 2017 , 142, 3629-3638	5	19
16	Convection-Diffusion Layer in an "Open Space" for Local Surface Treatment and Microfabrication using a Four-Aperture Microchemical Pen. <i>ChemPhysChem</i> , 2017 , 18, 2357-2363	3.2	5
15	Writing of nanowires via high viscosity-induced nano diffusive layer. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 11666-11671	7.1	8
14	The pathological structure of the perivascular niche in different microvascular patterns of glioblastoma. <i>PLoS ONE</i> , 2017 , 12, e0182183	3.7	11
13	The use of an inkjet injection technique in immunoassays by quantitative on-line electrophoretically mediated microanalysis. <i>Journal of Chromatography A</i> , 2016 , 1477, 127-131	4.5	10

12	Inkjet printing based assembly of thermoresponsive core-shell polymer microcapsules for controlled drug release. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 4156-4163	7.3	12
11	Microchemical Pen: An Open Microreactor for Region-Selective Surface Modification. <i>ChemPhysChem</i> , 2016 , 17, 3155-3159	3.2	8
10	Generation of controlled monodisperse porous polymer particles by dipped inkjet injection. <i>RSC Advances</i> , 2015 , 5, 7297-7303	3.7	13
9	A chemo-mechanical switch for controllable water transportation based on a thermally responsive block copolymer. <i>Chemical Communications</i> , 2014 , 50, 10265-8	5.8	9
8	Online monodisperse droplets based liquid-liquid extraction on a continuously flowing system by using microfluidic devices. <i>RSC Advances</i> , 2014 , 4, 11919	3.7	18
7	Inkjet nanoinjection for high-throughput chemiluminescence immunoassay on multicapillary glass plate. <i>Analytical Chemistry</i> , 2013 , 85, 7413-8	7.8	48
6	Strategy for signaling molecule detection by using an integrated microfluidic device coupled with mass spectrometry to study cell-to-cell communication. <i>Analytical Chemistry</i> , 2013 , 85, 868-76	7.8	79
5	Development and applications of paper-based electrospray ionization-mass spectrometry for monitoring of sequentially generated droplets. <i>Analyst, The</i> , 2013 , 138, 2163-70	5	32
4	Imitation of drug metabolism in human liver and cytotoxicity assay using a microfluidic device coupled to mass spectrometric detection. <i>Lab on A Chip</i> , 2012 , 12, 219-26	7.2	80
3	A microfluidic photolithography for controlled encapsulation of single cells inside hydrogel microstructures. <i>Science China Chemistry</i> , 2012 , 55, 494-501	7.9	13
2	Rare cell chemiluminescence detection based on aptamer-specific capture in microfluidic channels. <i>Biosensors and Bioelectronics</i> , 2011 , 28, 438-42	11.8	53
1	Cell signaling analysis by mass spectrometry under coculture conditions on an integrated microfluidic device. <i>Analytical Chemistry</i> , 2011 , 83, 9306-13	7.8	43