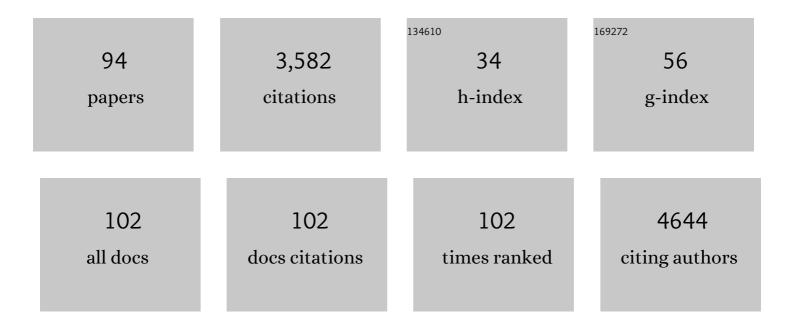
Chang Lu

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Epigenomic and transcriptomic analyses reveal differences between low-grade inflammation and severe exhaustion in LPS-challenged murine monocytes. Communications Biology, 2022, 5, 102. | 2.0 | 20 |
| 2 | Cell-type-specific epigenomic variations associated with <i>BRCA1</i> mutation in pre-cancer human breast tissues. NAR Genomics and Bioinformatics, 2022, 4, Iqac006. | 1.5 | 2 |
| 3 | nMOWChIP-seq: low-input genome-wide mapping of non-histone targets. NAR Genomics and Bioinformatics, 2022, 4, Iqac030. | 1.5 | 1 |
| 4 | Prolonged epigenomic and synaptic plasticity alterations following single exposure to a psychedelic in mice. Cell Reports, 2021, 37, 109836. | 2.9 | 82 |
| 5 | Microfluidic Platform for Next-Generation Sequencing Library Preparation with Low-Input Samples. Analytical Chemistry, 2020, 92, 2519-2526. | 3.2 | 14 |
| 6 | Phenylbutyrate facilitates homeostasis of non-resolving inflammatory macrophages. Innate Immunity, 2020, 26, 62-72. | 1.1 | 11 |
| 7 | Multiplexed and Ultralow-Input ChIP-seq Enabled by Tagmentation-Based Indexing and Facile Microfluidics. Analytical Chemistry, 2020, 92, 13661-13666. | 3.2 | 3 |
| 8 | Microfluidic epigenomic mapping technologies for precision medicine. Lab on A Chip, 2019, 19, 2630-2650. | 3.1 | 11 |
| 9 | MOWChIP-seq for low-input and multiplexed profiling of genome-wide histone modifications. Nature Protocols, 2019, 14, 3366-3394. | 5.5 | 29 |
| 10 | Microfluidic MeDIP-seq for low-input methylomic analysis of mammary tumorigenesis in mice. Analyst, The, 2019, 144, 1904-1915. | 1.7 | 8 |
| 11 | Interleukin-1Î ² -induced IRAK1 ubiquitination is required for TH-GM-CSF cell differentiation in T cell-mediated inflammation. Journal of Autoimmunity, 2019, 102, 50-64. | 3.0 | 12 |
| 12 | BRCA1 mutations attenuate super-enhancer function and chromatin looping in haploinsufficient human breast epithelial cells. Breast Cancer Research, 2019, 21, 51. | 2.2 | 16 |
| 13 | On-chip manufacturing of synthetic proteins for point-of-care therapeutics. Microsystems and Nanoengineering, 2019, 5, 13. | 3.4 | 19 |
| 14 | Effects of Culture Condition on Epigenomic Profiles of Brain Tumor Cells. ACS Biomaterials Science and Engineering, 2019, 5, 1544-1552. | 2.6 | 14 |
| 15 | A diffusion-based microfluidic device for single-cell RNA-seq. Lab on A Chip, 2019, 19, 1247-1256. | 3.1 | 16 |
| 16 | Microfluidics-Based Chromosome Conformation Capture (3C) Technology for Examining Chromatin Organization with a Low Quantity of Cells. Analytical Chemistry, 2018, 90, 3714-3719. | 3.2 | 6 |
| 17 | Cell-type-specific brain methylomes profiled via ultralow-input microfluidics. Nature Biomedical Engineering, 2018, 2, 183-194. | 11.6 | 29 |
| 18 | Low-input and multiplexed microfluidic assay reveals epigenomic variation across cerebellum and prefrontal cortex. Science Advances, 2018, 4, eaar8187. | 4.7 | 35 |

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|----|---|------|-----------|
| 19 | Recent advances in the use of microfluidic technologies for single cell analysis. Analyst, The, 2018, 143, 60-80. | 1.7 | 121 |
| 20 | Microfluidic Low-Input Fluidized-Bed Enabled ChIP-seq Device for Automated and Parallel Analysis of Histone Modifications. Analytical Chemistry, 2018, 90, 7666-7674. | 3.2 | 18 |
| 21 | Cell-type-specific brain methylomes profiled via ultralow-input microfluidics. Nature Biomedical Engineering, 2018, 2, 183-194. | 11.6 | 15 |
| 22 | Immunomagnetic separation of tumor initiating cells by screening two surface markers. Scientific Reports, 2017, 7, 40632. | 1.6 | 23 |
| 23 | Microfluidics for genome-wide studies involving next generation sequencing. Biomicrofluidics, 2017, 11, 021501. | 1.2 | 29 |
| 24 | Paramagnetic Structures within a Microfluidic Channel for Enhanced Immunomagnetic Isolation and Surface Patterning of Cells. Scientific Reports, 2016, 6, 29407. | 1.6 | 23 |
| 25 | Microfluidic Chromatin Immunoprecipitation for Analysis of Epigenomic Regulations. , 2016, , 349-363. | | 2 |
| 26 | RNA Extraction from a Mycobacterium under Ultrahigh Electric Field Intensity in a Microfluidic Device. Analytical Chemistry, 2016, 88, 5053-5057. | 3.2 | 12 |
| 27 | A Microfluidic Device with Integrated Sonication and Immunoprecipitation for Sensitive Epigenetic Assays. Analytical Chemistry, 2016, 88, 1965-1972. | 3.2 | 24 |
| 28 | A microfluidic device for epigenomic profiling using 100 cells. Nature Methods, 2015, 12, 959-962. | 9.0 | 111 |
| 29 | Optimal Design of Microfluidic Platforms for Diffusion-Based PCR for "One-Pot―Analysis of Cells. Computer Aided Chemical Engineering, 2015, , 1199-1204. | 0.3 | 0 |
| 30 | Quantitative Detection of Nucleocytoplasmic Transport of Native Proteins in Single Cells. Methods in Molecular Biology, 2015, 1346, 239-252. | 0.4 | 0 |
| 31 | Flow effects in the laser-induced thermal loading of optical traps and optofluidic devices. Optics Express, 2014, 22, 23938. | 1.7 | 12 |
| 32 | Intracellular Tracking of Single Native Molecules with Electroporation-Delivered Quantum Dots. Analytical Chemistry, 2014, 86, 11403-11409. | 3.2 | 57 |
| 33 | Focusing of mammalian cells under an ultrahigh pH gradient created by unidirectional electropulsation in a confined microchamber. Chemical Science, 2014, 5, 3331-3337. | 3.7 | 6 |
| 34 | Electroporation-delivered fluorescent protein biosensors for probing molecular activities in cells without genetic encoding. Chemical Communications, 2014, 50, 11536-11539. | 2.2 | 17 |
| 35 | Detecting intracellular translocation of native proteins quantitatively at the single cell level. Chemical Science, 2014, 5, 2530-2535. | 3.7 | 9 |
| 36 | Electroporation-based delivery of cell-penetrating peptide conjugates of peptide nucleic acids for antisense inhibition of intracellular bacteria. Integrative Biology (United Kingdom), 2014, 6, 973-978. | 0.6 | 20 |

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| 37 | Diffusion-based microfluidic PCR for "one-pot―analysis of cells. Lab on A Chip, 2014, 14, 2905-2909. | 3.1 | 19 |
| 38 | Thermal loading in flow-through electroporation microfluidic devices. Lab on A Chip, 2013, 13, 3119-3127. | 3.1 | 16 |
| 39 | Microfluidic electroporation for cellular analysis and delivery. Lab on A Chip, 2013, 13, 3803-3821. | 3.1 | 174 |
| 40 | Droplet sorting based on the number of encapsulated particles using a solenoid valve. Lab on A Chip, 2013, 13, 171-178. | 3.1 | 81 |
| 41 | Microfluidic Devices for Cellular Proteomic Studies. , 2013, , 161-184. | | 0 |
| 42 | Gene delivery by microfluidic flow-through electroporation based on constant DC and AC field. , 2012, 2012, 2579-82. | | 4 |
| 43 | Quantitative measurement of quantum dot uptake at the cell population level using microfluidic evanescent-wave-based flow cytometry. Lab on A Chip, 2012, 12, 1441. | 3.1 | 9 |
| 44 | Genomic DNA Extraction from Cells by Electroporation on an Integrated Microfluidic Platform. Analytical Chemistry, 2012, 84, 9632-9639. | 3.2 | 45 |
| 45 | Release of Intracellular Proteins by Electroporation with Preserved Cell Viability. Analytical Chemistry, 2012, 84, 8102-8105. | 3.2 | 37 |
| 46 | Observing Single Cell NF-κB Dynamics under Stimulant Concentration Gradient. Analytical Chemistry, 2012, 84, 1224-1228. | 3.2 | 13 |
| 47 | Characterizing osmotic lysis kinetics under microfluidic hydrodynamic focusing for erythrocyte fragility studies. Lab on A Chip, 2012, 12, 5063. | 3.1 | 14 |
| 48 | Quantum Dot (QD)-Modified Carbon Tape Electrodes for Reproducible Electrochemiluminescence (ECL) Emission on a Paper-Based Platform. Analytical Chemistry, 2012, 84, 3033-3038. | 3.2 | 86 |
| 49 | Low-frequency ac electroporation shows strong frequency dependence and yields comparable transfection results to dc electroporation. Journal of Controlled Release, 2012, 160, 570-576. | 4.8 | 51 |
| 50 | Chemical Transfection of Cells in Picoliter Aqueous Droplets in Fluorocarbon Oil. Analytical Chemistry, 2011, 83, 8816-8820. | 3.2 | 49 |
| 51 | Histone modification analysis by chromatin immunoprecipitation from a low number of cells on a microfluidic platform. Lab on A Chip, 2011, 11, 2842. | 3.1 | 35 |
| 52 | Single-cell electrical lysis of erythrocytes detects deficiencies in the cytoskeletal protein network. Lab on A Chip, 2011, 11, 3053. | 3.1 | 21 |
| 53 | Transfection of cells using flow-through electroporation based on constant voltage. Nature Protocols, 2011, 6, 1192-1208. | 5.5 | 71 |
| 54 | Flow-through electroporation based on constant voltage for large-volume transfection of cells. Journal of Controlled Release, 2010, 144, 91-100. | 4.8 | 86 |

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|----|--|-------------------|------------------------|
| 55 | Vortex-assisted DNA delivery. Lab on A Chip, 2010, 10, 2057. | 3.1 | 54 |
| 56 | Kinetics of NF-κB nucleocytoplasmic transport probed by single-cell screening without imaging. Lab on A Chip, 2010, 10, 2911. | 3.1 | 17 |
| 57 | Quantitative analysis of protein translocations by microfluidic total internal reflection fluorescence flow cytometry. Lab on A Chip, 2010, 10, 2673. | 3.1 | 19 |
| 58 | One-step extraction of subcellular proteins from eukaryotic cells. Lab on A Chip, 2010, 10, 2046. | 3.1 | 27 |
| 59 | Microfluidic electroporation of tumor and blood cells: observation of nucleus expansion and implications on selective analysis and purging of circulating tumor cells. Integrative Biology (United) Tj ETQq1 1 | 0. 786 314 | ∙rg B ∓ /Overic |
| 60 | Electroporation of Cells in Microfluidic Droplets. Analytical Chemistry, 2009, 81, 2027-2031. | 3.2 | 126 |
| 61 | Modulating DNA adsorption on silica beads using an electrical switch. Chemical Communications, 2009, , 800-802. | 2.2 | 12 |
| 62 | A microfluidic cell array with individually addressable culture chambers. Biosensors and Bioelectronics, 2008, 24, 613-617. | 5.3 | 34 |
| 63 | Recent advances in electric analysis of cells in microfluidic systems. Analytical and Bioanalytical Chemistry, 2008, 391, 933-942. | 1.9 | 70 |
| 64 | Microfluidic electroporation for selective release of intracellular molecules at the single ell level. Electrophoresis, 2008, 29, 2939-2944. | 1.3 | 26 |
| 65 | Microfluidic delivery of small molecules into mammalian cells based on hydrodynamic focusing. Biotechnology and Bioengineering, 2008, 100, 150-158. | 1.7 | 57 |
| 66 | Microfluidic electroporation for delivery of small molecules and genes into cells using a common DC power supply. Biotechnology and Bioengineering, 2008, 100, 579-586. | 1.7 | 63 |
| 67 | Quantification of bacterial cells based on autofluorescence on a microfluidic platform. Journal of Chromatography A, 2008, 1181, 153-158. | 1.8 | 42 |
| 68 | Microfluidic CARS cytometry. Optics Express, 2008, 16, 5782. | 1.7 | 63 |
| 69 | Microfluidics-Based Lysis of Bacteria and Spores for Detection and Analysis. , 2008, , 817-831. | | 3 |
| 70 | A microfluidic device for physical trapping and electrical lysis of bacterial cells. Applied Physics Letters, 2008, 92, . | 1.5 | 40 |
| 71 | Detection of Kinase Translocation Using Microfluidic Electroporative Flow Cytometry. Analytical Chemistry, 2008, 80, 1087-1093. | 3.2 | 34 |
| 72 | Microfluidic Electroporative Flow Cytometry for Studying Single-Cell Biomechanics. Analytical Chemistry, 2008, 80, 7714-7719. | 3.2 | 60 |

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|----|--|-----|-----------|
| 73 | Total Internal Reflection Fluorescence Flow Cytometry. Analytical Chemistry, 2008, 80, 9840-9844. | 3.2 | 25 |
| 74 | Single molecule λ-DNA stretching studied by microfluidics and single particle tracking. Journal of Applied Physics, 2007, 102, 074703. | 1.1 | 14 |
| 75 | Rapid Electrical Lysis of Bacterial Cells in a Microfluidic Device. Methods in Molecular Biology, 2007, 385, 23-35. | 0.4 | 7 |
| 76 | Microfluidic Cell Electroporation Using a Mechanical Valve. Analytical Chemistry, 2007, 79, 9584-9587. | 3.2 | 34 |
| 77 | A Nanoporous Silicon Membrane Electrode Assembly for On-Chip Micro Fuel Cell Applications. Journal of Microelectromechanical Systems, 2006, 15, 671-677. | 1.7 | 33 |
| 78 | Microfluidic cell fusion under continuous direct current voltage. Applied Physics Letters, 2006, 89, 234102. | 1.5 | 46 |
| 79 | Microfluidic chemical cytometry based on modulation of local field strength. Chemical Communications, 2006, , 3528. | 2.2 | 37 |
| 80 | Electroporation of Mammalian Cells in a Microfluidic Channel with Geometric Variation. Analytical Chemistry, 2006, 78, 5158-5164. | 3.2 | 145 |
| 81 | A microfluidic flow-through device for high throughput electrical lysis of bacterial cells based on continuous dc voltage. Biosensors and Bioelectronics, 2006, 22, 582-588. | 5.3 | 135 |
| 82 | High-throughput and real-time study of single cell electroporation using microfluidics: Effects of medium osmolarity. Biotechnology and Bioengineering, 2006, 95, 1116-1125. | 1.7 | 53 |
| 83 | Separation of denatured proteins in free solution on a microchip based on differential binding of alkyl sulfates with different carbon chain lengths. Chemical Communications, 2005, , 183. | 2.2 | 5 |
| 84 | Acid loaded porous silicon as a proton exchange membrane for micro-fuel cells. Journal of Power Sources, 2004, 135, 198-203. | 4.0 | 88 |
| 85 | UHV, Electrochemical NMR, and Electrochemical Studies of Platinum/Ruthenium Fuel Cell Catalysts. Journal of Physical Chemistry B, 2002, 106, 9581-9589. | 1.2 | 181 |
| 86 | Correlations between the Heat of Adsorption and the Position of the Center of the D-Band: Differences between Computation and Experiment. Journal of Physical Chemistry A, 2002, 106, 3084-3091. | 1.1 | 45 |
| 87 | UHV and electrochemical studies of CO and methanol adsorbed at platinum/ruthenium surfaces, and reference to fuel cell catalysis. Electrochimica Acta, 2002, 47, 3637-3652. | 2.6 | 179 |
| 88 | The Effect of Ruthenium on the Binding of CO, H2, and H2O on Pt(110). Journal of Physical Chemistry B, 2001, 105, 9793-9797. | 1.2 | 69 |
| 89 | Chemistry of Methoxonium on (2 × 1)Pt(110). Journal of Physical Chemistry B, 2001, 105, 8583-8590. | 1.2 | 12 |
| 90 | Evidence for a cation intermediate during methanol dehydration on Pt(110). Catalysis Letters, 2001, 72, 167-175. | 1.4 | 11 |

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| 91 | Catalytic oxidation of odorous organic acids. Catalysis Today, 2000, 62, 347-353. | 2.2 | 10 |
| 92 | Capillary Electrophoresis of Nucleic Acids at the Single-Cell Level. , 0, , 75-91. | | 0 |
| 93 | Microfluidic Technology for Single-Cell Analysis. , 0, , 93-106. | | 0 |
| 94 | Ultrasensitive Analysis of Individual Cells via Droplet Microfluidics. , 0, , 143-157. | | 1 |

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